Kindergarten
Pennsylvania Learning Standards for Early Childhood

Office of Child Development and Early Learning
Pennsylvania Department of Education and Department of Public Welfare

2009 Revised 2nd Edition
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INTRODUCTION

Children are born with an incredible capacity and desire to learn. Over 30 years of research confirm the foundational importance of early education and care for children’s school and life success. It is essential, then, that students’ first school experiences are robust ones, steeped in expectations that develop critical thinking and problem solving skills, a deep understanding about themselves in a social society and age appropriate content.

Teachers’ instructional practices must embed the domains of development: cognitive, social–emotional, language, and physical within the foundations or approaches to learning that enable children to explore, understand and reach beyond the “here and now” to challenge themselves and to experiment and transform information into meaningful content and skills.

Teachers of very young children have the awesome task of providing rich information and experiences that build skills and understanding in the context of every day routines and within intentionally–designed play opportunities that capture children’s interests, wonder and curiosity so they want to know more. Pennsylvania’s learning standards join hand–in–hand with the learning environment; the responsive relationships that have been built with children, families and the community; the age, cultural and linguistically–appropriate curriculum; and the practices being used to assess children, classrooms and programs to create the best possible experiences for learning success.

The Department of Education and the Office of Child Development and Early Learning utilize a Standards Aligned System (SAS) that links the elements of instruction, materials and resources, curriculum framework, fair assessment and interventions, and learning standards to children’s engagement in learning and their school success.

1. MATERIALS AND RESOURCES
Every early learning classroom, whether it is in a home atmosphere or center–based setting, must be a comfortable, safe and nurturing environment where children can play with blocks, manipulatives, art materials, and dramatic play items to enhance skill development. Children discover and understand science, social studies, and math information when they actively explore materials and ideas that are guided by teachers who intentionally design activities that engage children in critical thinking and processing. Children also learn about their own abilities and learning styles, how to get along with others and how to appreciate others’ contributions in classrooms that include a diverse set of materials and experiences.

School environments should be linked to a child’s home environment, incorporating cultural and ethnic materials and children’s home language and provide experiences that are inclusive for all children, regardless of ability, socio–economic status, or family background. Well–designed classrooms demonstrate a commitment to the whole child by offering materials and activities that promote social, physical, cognitive and language learning.

Classroom assessment instruments that help providers assess the arrangement of indoor and outdoor space, the provision of materials and activities, and their development of class schedules are useful in assuring best practice implementation and alignment to Pennsylvania’s Learning Standards for early childhood.

2. INSTRUCTION
Instruction in the early years often looks different than in the older grades. Learning occurs within the context of play and active learning strategies where children are engaged in concrete and hands–on discovery and in experimentation and interaction with materials, their peers and nurturing adults.

Teachers help construct knowledge during these active learning times by designing activities that build on children’s prior knowledge to create new understandings and information. A limited amount of direct teaching combined with child–initiated play produce optimal conditions for young children’s education. Teachers become facilitators or guides of learning who interact with children throughout the school day. They ask open–ended questions that encourage children to think about what comes next or want to know more and they support children’s creativity, problem solving, intuition and inventiveness (approaches to learning) by challenging and encouraging them. Teachers design focused instruction that is based on the identified individual needs of every child and assure these experiences encompass their interests, abilities and culture.

3. CURRICULUM FRAMEWORK
A curriculum framework reminds us what information should be taught to young children within each of the Key Learning Areas. It assures the continuum of learning that begins at birth and continues through graduation. Pennsylvania’s curriculum framework includes big ideas, essential questions, vocabulary, concepts and competencies that further define the learning standards.

4. FAIR ASSESSMENTS
Teachers must use both informal and formal assessments to understand children’s progress. In early childhood, formative assessments that provide information about how children are progressing in the classroom allow teachers to make adaptations or adjustments in the individualized learning plans for every child.

Early childhood professionals observe and assess children in their classroom setting using the materials that are found in their school environment. Blocks that children count or stack, for example, provide the information teachers need to understand children’s math or fine motor skills. Outdoor play or recess allows the adult to observe children’s gross motor skills or the social interactions with peers.
Teachers must use the information they have documented during observation, along with information from the parent, to identify goals and next steps for children’s learning through play.

5. CLEAR STANDARDS

Learning Standards provide the framework for learning. They provide the foundational information for what children should know and be able to do. Pennsylvania’s learning standards build on information learned previously, creating a continuum of learning that assures consistent and linked learning that begins in infancy, gradually getting more difficult as it extends through high school.

Pennsylvania also uses program standards that assure children’s experiences are being offered in high-quality settings. Keystone STARS, PA Pre-K Counts, ABG, HSSAP all use similar sets of standards that provide guidance on program operation that exhibits best practices.

6. INTERVENTIONS

When teachers are observant and assess children’s abilities, interests and achievement using the standards as a guide, interventions become part of the teachers’ everyday practice. Revising activities, adjusting lesson plans and accommodating children’s individual differences becomes matter-of-fact and the norm. Successful strategies that allow children to master skills at his or her own pace provide benefits for all children as they interact with others of varying abilities and cultures.

Early Childhood Special Education

Early childhood classrooms should be inclusive ones where children with disabilities and developmental delays are enjoying learning experiences alongside their typically developing peers. Teachers may need to adapt or modify the classroom environment, teacher interactions and/or materials and equipment to help children with disabilities fully participate.

Pennsylvania’s Learning Standards for Early Childhood are designed to be used for all children. The content within these standards does not need to be specific to an age, grade or specific functional level, but instead provide the breadth of information from which to create goals and experiences for children that will help them reach their highest potential while capturing their interests and building on what they already know. Teachers must emphasize and celebrate all children’s accomplishments and focus on what all children can do.

English Language Learners

Children develop language much the same way they acquire other skills. Children learn native and second languages using an individual style and rate. Differences among English Language Learners such as mixing languages or a silent period are natural. Each child’s progress in learning English needs to be respected and viewed as acceptable and part of the ongoing process of learning any new skill. The skills needed for young English language learners to become proficient in English are fully embedded in the Pennsylvania’s Standards for Early Childhood.

EARLY CHILDHOOD CONNECTIONS

High quality early learning programs also promote connections that assure children’s school success. Programs that build relationships with children and families and coordinate their work with other early learning programs, school districts and grades within districts create strong partnerships for success.

1. CONNECTIONS TO CHILDREN

Relationships are the key to successful connections between a teacher and the students. Teachers must take time to know every child, to understand the way in which they learn best, to identify the special talents and skills each child possesses and the interests that excite them to learn more. Adults who work with young children must be students themselves as they learn about children’s home experiences and culture so they can design learning environments that support the home-school connection and expand prior learning and experiences into new achievements and acquisition of knowledge.

2. CONNECTIONS TO FAMILIES

Parents of young children have much to offer in the learning process. When a partnership is formed between teacher (or school) and the family, the connection between home and school has been strengthened, assuring that children receive consistent messages about learning and skill development. Parents should be given opportunities to learn about their children’s day at school, to provide input into the information they want children to learn and master, and to understand what they can do at home to enhance the school experience. Frequent informal conversations, invitations to participate in classroom life and voluntary take-home activities that relate to school experiences help to build the partnership.

At-home resources for parents such as Kindergarten, Here I Come, Kindergarten, Here I Am or Learning is Everywhere provide both teachers and families with tools to connect at home and school learning and to share age appropriate expectations and activities that support that connection.

Families’ ethnicity and culture must be interwoven into the life of an early childhood program and classroom. Staff must embrace all children’s heritages and provide activities, materials and experiences that help children become aware of and appreciate their own culture while learning about and appreciating the similarities and differences of others’. Staff in high quality early education programs know and understand their own attitudes and biases and are culturally sensitive and supportive of diversity.

3. CONNECTIONS WITH OTHER EARLY LEARNING PROGRAMS

Children and families often have other needs and priorities in addition to participation in high quality early childhood learning programs. Families may need to coordinate their early learning program services with child care, health services or early intervention services, as well as with their other children’s school experiences. Programs within a community that support families’ single point of contact or help to coordinate services for children demonstrate a strong understanding and respect for families. Providers that reach out to neighborhood schools to facilitate transition into the public school or who have developed a working relationship with their early intervention provider assure linkages that support children’s school readiness and ongoing success.

4. CONNECTIONS FOR LEARNING

Young children make learning connections through play. Providers that allow children time to explore and discover, both inside and outside, have optimized children’s capacity to internalize and generalize content by making their own connections to prior-learned knowledge. All children, regardless of age and ability, need opportunities to engage in practice activities and experiences that are steeped in play.

Adults must also use literature connections in all domains. Literature supports both content and social and cultural learning. It is a foundation for curriculum integration.

CONTINUED...
LEARNING STANDARDS TASK FORCE

Pennsylvania’s Learning Standards for Early Childhood were originally constructed as a joint project of the Departments of Education and Public Welfare as part of Governor Rendell’s commitment to early childhood education. The Office of Child Development and Early Learning, established in 2006 to administer both Departments’ early childhood programs, has overseen revisions to the standards.

Each set of Standards has been formulated with help and guidance from practitioners who represent early childhood programs and advocacy groups, higher education, and policy analysts and researchers. Support for the development of the Standards was provided through the national Build Initiative, a multi-state partnership that helps states construct a coordinated system of programs and policies that respond to the needs of all young children.

THE LEARNING STANDARDS CONTINUUM

Within all of Pennsylvania’s Early Childhood Standards, the Key Learning Areas define the domains or areas of children’s learning that assure a holistic approach to instruction. All children, regardless of age and ability, should be exposed to experiences that build their skill development in approaches to learning, social-emotional development, language and literacy development, physical or motor development, creative expression and the cognitive areas of mathematics, science and social studies. The Standards within each Key Learning Area provide the information that children should be able to know and/or do when they leave the age level or grade. The Standards are also organized by Standard Statements that specify specific skills. New, in 2009, strands further define the standards by organizing the information into focus areas. The strands become the connections to the Academic Standards for grades 3–12. They, too, use these strands to organize the content that all children in Pennsylvania should be able to know and do.

PENNSYLVANIA’S EARLY CHILDHOOD CONTINUUM OF STANDARDS

Infant–Toddler, Pre–Kindergarten and Kindergarten standards are connected through the Continuum of Learning and further linked to the 3rd grade academic standards. Using the strands as the organizer, professionals are able to look across ages and grades to understand how children’s development emerges. Some skills will not emerge in a noticeable way until a child is older. These standards statements will be identified on the continuum as “emerging”. For example, concepts about money are not ones that infant teachers need to develop. They show in the social studies standards for infants as “emerging”. Strands that are missing numerically are skills that do not need attention during the Early Childhood Education years.

Teachers who view children’s skill development across ages and grades will be able to understand the sequential way children learn and become familiar with the way in which teachers at higher grade levels support learning.

LEARNING STANDARDS FOR EARLY CHILDHOOD DO:

- Inform teachers and administrators about curriculum and assessment and guide the selection of program materials and the design of instruction
- Inform parents of age-appropriate expectations for children
- Provide a common framework for community-based work on curriculum and transitions

THE LEARNING STANDARDS FOR EARLY CHILDHOOD ARE NOT USED:

- As a specific curriculum or to mandate specific teaching practices and materials
- To prohibit children from moving from one grade or age level to another
- To assess the competence of children or teachers

AGE GROUPINGS IN PENNSYLVANIA’S LEARNING STANDARDS FOR EARLY CHILDHOOD

INFANT–TODDLER LEARNING STANDARDS

The Infant–Toddler Standards are divided into three age levels: infant (birth through 12 months), young toddler (9 months – 27 months) and older toddler (24 months through 36 months). These age divisions are arbitrary as a means for organizing the content; very young children’s development is uneven and may span two or all three of the age levels in different Key Areas of Learning. This is reflected by the overlap of the age 9 – 27 months in younger toddlers.

The Standards in each Key Area of Learning are displayed on an infant–toddler continuum with the content within one strand presented together on one page. Practitioners can look across each age level to determine the skills that best match their children’s current development, identifying additional standard statements, examples and supportive practices to scaffold children’s learning.

When strands include “Emerging” under infant or young toddler, these concepts are beginning to emerge but are expected to be mastered. For example, infants and young toddlers may be exploring mathematical estimation as they interact with materials, but intentional instruction would not be appropriate for that age. Adults should continue to introduce these concepts whenever appropriate for the individual child without expectation of mastery.

LEARNING STANDARDS FOR PRE–KINDERGARTEN

Teachers will find the skills that pre–kindergarteners (ages three and four) are practicing and mastering within the pre–kindergarten standards. Younger preschoolers will be learning the content, while older children will be mastering the skills and showing proficiency in many of them. Classroom environments, materials and activities that are developed for this age will be appropriate for both three and four year olds; expectations for mastery will be different.

LEARNING STANDARDS FOR KINDERGARTEN

Students who complete kindergarten should demonstrate mastery of many of the skills within the Kindergarten Standards. This document is designed for full day kindergarten classrooms. Half day kindergarten teachers will need to modify the amount of content that is introduced to children during the kindergarten year, but the cognitive processing that children must develop and the holistic instruction will remain constant regardless of the length of the kindergarten day.

It is critical that kindergarten instruction occurs through an active learning approach where teachers use differentiated instructional strategies and focus on learning centers and play as key elements of the daily schedule. Child-directed instruction should be predominant with language and literacy and math infused through the day in addition to their special focus learning times. Kindergarten children should be given opportunities to develop social and emotional skills, physical skills and their creative expression within the course of a kindergarten day.
CREATIVE THINKING AND EXPRESSION

COMMUNICATING THROUGH THE ARTS

STANDARD CTE 9.1.A: PRODUCTION, PERFORMANCE AND EXHIBITION: MUSIC AND MOVEMENT

**BIG IDEA**
Music can be used to express and initiate aesthetic and physical responses

**ESSENTIAL QUESTIONS:**
How do I respond to music through my expressions? How do I respond to music by moving my body?

**STANDARD STATEMENT**
- Respond to different forms of music and dance and use basic vocabulary when describing action
- Identify and reproduce patterns of rhythm in music and dance

**EXEMPLARS (EXAMPLES)**
The learner will:
- Understand and use music vocabulary
- Discuss music and movement using appropriate vocabulary: fast/slow (tempo); high/low (pitch); short/long (duration); soft/loud (volume); strong/weak beat (rhythm)
- Sing and play instruments loudly and softly
- Keep rhythm to a song or poem using body movements or instruments
- Identify the rhythm of a known song and clap the pattern as the song is sung
- Copy rhythms modeled by the teacher

**SUPPORTIVE PRACTICES**
The adult will:
- Demonstrate singing and sources of sound, tempo, rhythm
- Use and model appropriate music and movement vocabulary when teaching
- Model and describe patterns and sequences used in dances
- Relate patterns in dance to patterns in mathematics
- Provide opportunities for learners to watch and discuss presentations or videos of music and movement
- Share a song or poem; have children clap the rhythm

**Key Learning Area:** The domains of learning that assure child’s holistic development.

**Standard:** Organizes the content within Key Learning Areas into smaller specific topics.

**Strand:** Areas of learning within each Standard that organize the information. These strands are similar from birth through grade 12.

**Standard Statement:** The specific indicators that provide the skills for children to learn and master. In the younger years when a skill is still emerging, this area will be identified as “emerging”. In some strands, there will be several standard statements; in others, there will be just one.

**Examples:** Or competencies identify ways children may demonstrate mastery or skill development.

**Supportive Practices:** Define strategies and materials professionals can use to help children learn or progress.
High quality early childhood programs offer learning opportunities that have a significant impact on the success of all children. A warm, responsive relationship with a highly trained teaching staff is foundational. It is expected that teachers will intentionally integrate developmental knowledge with the attitudes, skills, and concepts children need to make progress socially and academically. High quality early childhood programs maintain high developmentally achievable expectations for all children using clear performance standards with a continuous cycle of assessment understood and used by staff, children, and parents.

**Footnote:** Young children with disabilities will meet standards consistent with their individualized education programs (IEPs) goals developed by IEP teams in accordance with the federal Individuals with Disabilities Education Improvement Act (IDEIA) and Pennsylvania’s Early Intervention Services System Act (Act 212 of 1990).
Children must demonstrate proficiency in both academics and their approach to their learning environment. These approaches are most effectively learned in the context of an integrated effort involving parents, educators and members of the community. The acquisition of these approaches is a developmental process that encompasses an individual’s entire lifetime. Teachers must help students feel successful by supporting and understanding their individual differences, allowing them to explore the world in a safe and caring environment, and enhancing their curiosity and knowledge about the world in which they live.

**FAMILY RELATIONSHIPS**

There is no greater gift for children’s successful endeavors in school then for schools to create a strong relationship between home and school. The connections that teachers and schools form with parents and guardians, especially in the early childhood years, provide the link for learning and assures that children, teachers and families work together to support children’s growth and development and skill mastery. Families can be invited to participate in many ways — volunteerism, donations of time, resources and materials, shared decision-making about children’s educational goals, support and referrals — but the key is a reciprocal relationship that invites parent input about a child’s school performance and information about the values and home culture, while sharing details of the child’s school routine and perceived successes and challenges in the classroom. Parents who perceive themselves as an integral member of the learning team are more likely to provide ongoing support and encouragement for children’s learning that will carry them through high school.

**APPROACHES TO LEARNING THROUGH PLAY**

**CONSTRUCTING, ORGANIZING AND APPLYING KNOWLEDGE**

- Constructing Knowledge
- Organizing and Understanding Knowledge
- Applying Knowledge
- Learning Through Experience

**Standard**  
15.1 Constructing Knowledge ........... 8  
15.2 Organizing and Understanding Knowledge .............. 9  
15.3 Applying Knowledge ........... 10  
15.4 Learning Through Experience .... 10
# STANDARD 15.1: GATHERING AND CONSTRUCTING KNOWLEDGE

**BIG IDEA:** Children actively construct knowledge through routines, play, practice and language. They observe others and their environment, use their senses to manipulate objects and materials and develop their own individualized approach to learning.

**ESSENTIAL QUESTIONS:** How do I find out about things? What information do I need to learn new ideas? What do I learn while I am playing?

## 15.1.1 CURIOSITY AND INITIATIVE

### STANDARD STATEMENT
- Demonstrate an eagerness to discover and discuss a growing range of topics, ideas and tasks
- Ask questions and seek meaningful information about a topic or idea
- Show interest and ask questions about others’ work or stories
- Use play to demonstrate new skills and knowledge
- Explore technological equipment and materials with interest

### EXEMPLARS (EXAMPLES)
The learner will:
- Share ideas and interests with teacher
- Ask “how” or “what” questions
- Predict story endings or ask questions about a story
- Use vocabulary words or concepts learned in class during play
- Try a new computer game or use a CD player that has been added to the reading corner

### SUPPORTIVE PRACTICES
The adult will:
- Encourage children to discuss and learn more about their interests
- Introduce a book by asking, “What do you think this book might be about?”
- Ask children to guess what might be inside a box or bag as a way to introduce a topic or idea
- Provide real objects that can be manipulated or explored to help understand a concept
- Respond to children’s questions with explanations that help them understand
- Encourage children to research answers to questions through books, such as “Let’s find a book about dogs to see why their noses are cold.”
- Regularly rotate classroom materials and formally introduce new objects and activities into the classroom by showing excitement, “look what I brought for us to do today?”

## 15.1.2 RISK TAKING

### STANDARD STATEMENT
- Engage in simple games with rules with the ability to plan ahead to develop strategies
- Engage in elaborate interactive play sequences that include acting out rules and negotiating play themes

### EXEMPLARS (EXAMPLES)
The learner will:
- Play kickball, Four Square, Checkers or Go Fish
- Use materials and props to support an ongoing play experience such as a safari adventure

### SUPPORTIVE PRACTICES
The adult will:
- Introduce new materials and activities by explaining what they are and providing instructions on their use
- Rotate materials in the classroom, pairing new and familiar things for children’s comfort
- Demonstrate enthusiasm when introducing new materials
- Provide experiments, field trips and other experiences to expand children’s learning
- Support and encourage children’s independent exploration of a topic

## 15.1.3 STAGES OF PLAY

### STANDARD STATEMENT
- Demonstrate a willingness to participate in an increasing variety of diverse experiences
- Determine appropriate method for learning information in a specific situation

### EXEMPLARS (EXAMPLES)
The learner will:
- Participate in experiments, cooking experiences or field trips
- Use books, ask questions or use materials to find out more about a topic

### SUPPORTIVE PRACTICES
The adult will:
- Introduce new materials and activities by explaining what they are and providing instructions on their use
- Rotate materials in the classroom, pairing new and familiar things for children’s comfort
- Demonstrate enthusiasm when introducing new materials
- Provide experiments, field trips and other experiences to expand children’s learning
- Support and encourage children’s independent exploration of a topic
**BIG IDEA:** Children learn to organize complex information and thoughts into small steps and goals. They develop plans for completing tasks by establishing goals and carrying out plans to meet those goals.

**ESSENTIAL QUESTIONS:** How do I understand the steps of a task? How do I decide how to approach a task?

### 15.2.1 ENGAGEMENT, ATTENTION AND PERSISTENCE

**STANDARD STATEMENT**
- Pay attention to adult who is providing instructions and follow through on directions
- Demonstrate capacity to concentrate over time on task, despite interruptions or classroom disruptions
- Complete simple activities or tasks from beginning to end with independence
- Work or interact with a specific toy or object until complete

**EXEMPLARS (EXAMPLES)**
- Follow two- or three-step directions such as, “Get a book, choose a partner and find a space to partner read”
- Work on a project or engage in a play experience while others are doing other activities
- Complete a classroom job such as watering the plants without adult assistance
- Complete a 24 piece puzzle

**SUPPORTIVE PRACTICES**
- Give clear and simple directions or explanations
- Allow time for children to follow simple directions to complete a task
- Save children’s work for later completion if transition to a new activity is necessary
- Show flexibility during transitions to allow children who are working on an project time to complete it
- Offer help to children who are demonstrating difficulty completing a task or activity
- Praise children’s efforts to complete a project
- Minimize interruptions and disruptions for children who are concentrating on a specific task or activity

### 15.2.2 TASK ANALYSIS

**STANDARD STATEMENT**
- Classify, contrast and compare objects, events and experiences
- Complete multi-step tasks with independence

**EXEMPLARS (EXAMPLES)**
- Use comparison of daily experiences or favorite activities to learn more about a topic
- Gather materials, place in backpack, put on coat, and put chair up on desk before lining up at the end of the day

**SUPPORTIVE PRACTICES**
- Provide multiple types of materials that require use of classification skills such as blocks that can be sorted by size, shape, or color
- Use story picture cards that children can put in sequential order
- Ask children to describe the steps required to complete a certain task

### 15.2.3 REASONING AND PROBLEM SOLVING

**STANDARD STATEMENT**
- Explore a new way to continue with a task, project or experience after initially experiencing a failure

**EXEMPLARS (EXAMPLES)**
- Determine why the block tower fell over and experiment with alternate ways to build it so that it remains standing

**SUPPORTIVE PRACTICES**
- Ask “Why do you think” or “How can we” questions to help children discover alternate ways to approach a task such as “Why do you think the tower fell over when you put the big block on top?”
## STANDARD 15.3: APPLYING KNOWLEDGE

**BIG IDEA:** Children extend their understanding when they think creatively about new ideas in the context of past experiences and knowledge.

**ESSENTIAL QUESTIONS:** How do I relate new information to things I already know? How do I use what I already know to learn new things? How do I finish a task?

**STANDARD STATEMENT**
- Observe and imitate both adults and peers to gain understanding of specific tasks and skills
- Create an object to serve a functional purpose
- Combine unique materials to make a new (real or pretend) object or result

**EXEMPLARS (EXAMPLES)**

The learner will:
- Combine different types of materials to represent a scenario or situation such as using legos, unit blocks and wood signs to make a neighborhood with roads, houses and people
- Use a toilet paper tube as a kazoo humming into it to make noise
- Try a new role in the dramatic play area that is suggested by another child
- Use a block as a truck or a large box to act as a fort

**SUPPORTIVE PRACTICES**

The adult will:
- Provide opportunities for children to give input into the daily schedule when changes are needed
- Offer varied opportunities for children to work with materials to create projects that demonstrate learned skills
- Provide a diverse set of materials that can be combined to create an end product
- Use the Project Approach as a way for children to demonstrate learned skills across Key Areas of Learning
- Use “What If” scenarios that require children’s creative thinking and problem solving
- Incorporate creative play scenarios within content instruction such as, pretend to buy a train ticket to go to the beach – discuss cost, preparations for trip and what you’ll see when you get there

## STANDARD 15.4: LEARNING THROUGH EXPERIENCE

**BIG IDEA:** Each child’s biological make-up, family, history and learning style provide the important context in which learning is constructed.

**ESSENTIAL QUESTIONS:** How do my home experiences help me learn? How do I learn how to cope with difficult situations?

**STANDARD STATEMENT**
- Use home experiences to learn new knowledge
- Transfer information from home to school and from school to home
- Develop attitudes and values about the way she/he learns to understand new experiences
- Understand how information learned in other settings impacts school learning
- Understand the difference between school and home processes

**EXEMPLARS (EXAMPLES)**

The learner will:
- Ask for additional help to master a skill or task that was begun at home such as writing his/her name
- Share notes with teacher and parent back and forth
- Show pleasure about learning something new when a parent is also pleased
- Tell about a song that was learned at piano lessons
- Ask parents to continue school activities when they get home, such as “Can we read this book when we get home?”

**SUPPORTIVE PRACTICES**

The adult will:
- Provide families with regular updates about the events that are occurring in school including songs, stories and special events
- Talk with families about what children are working on at home and incorporate those goals in the school day, such as helping a child who is learning to go to sleep on own at home by helping them lay down for nap independently at school
- Ask children to describe the extra curricular activities they participate in and show what they are learning
- Provide “take home” activity kits that can travel back and forth to school and home
- Acknowledge and value differences in class and home structure such as, “At school we leave our shoes on during the day – I know you like to go barefoot at home”
### STANDARD 15.4: LEARNING THROUGH EXPERIENCE

#### 15.4.2 RESILIENCE

**Standard Statement**

- Demonstrate a beginning understanding of consequences for behavior
- Utilize help when needed
- Communicate feelings of distress or anxiety
- Engage in problem solving activities to achieve a positive outcome

**Exemplars (Examples)**

- Name a consequence for a specific behavior
- Ask a friend who has mastered a skill to assist
- Tell teacher when she/he is feeling scared or apprehensive about a particular task
- Try new activities or tasks that build on previously-learned skills
- Strive to correct his/her own mistakes

**Supportive Practices**

- Provide guidance for improvement when children experience a lack of progress or failure to accomplish a goal or task
- Comfort children and provide encouragement during stressful times
- Encourage children to be autonomous by offering situations and tasks that can be completed independently
- Make referrals to health care, social service and other agencies as appropriate
- Model appropriate responses to difficult or uncomfortable situations
- Encourage step by step problem solving and completion of a task to maximize perception of successful outcomes

#### 15.4.3 CULTURE

**Standard Statement**

- Express information about own family or background
- Show interest in different familial structures
- Interact with materials from different cultures such as rain stick, map that depicts Asia or Africa
- Show acceptance of children who appear to be different

**Exemplars (Examples)**

- Name a consequence for a specific behavior
- Ask a friend who has mastered a skill to assist
- Tell teacher when she/he is feeling scared or apprehensive about a particular task
- Try new activities or tasks that build on previously-learned skills
- Strive to correct his/her own mistakes

**Supportive Practices**

- Seek out information from families or community organizations to assure appropriate responses and practices that represent the cultures of children in the classroom and center
- Learn words or phrases from children's home language to use during the school day
- Label classroom materials and equipment as well as take-home materials in the home languages of the children in the classroom
- Encourage family members to volunteer or share information, materials and activities that reflect home cultures
- Use varied approaches or methods for instruction and learning to accommodate children's learning abilities and styles
- Learn about families' expectations for children's school success and incorporate those goals into classroom activities and experiences
- Incorporate ethnic foods, music, books and materials into classroom life
- Use sensitivity in celebrating traditional holidays and incorporate other cultures' holidays into the curriculum
- Provide opportunities for children to practice non-specific gender roles such as dads taking care of babies and moms acting in non-traditional female careers
- Adapt the environment, materials, and instructional practices to assure all children have opportunities for success
**Associative Play** – A form of play in which a group of children participate in similar and identical activities without formal organization, group direction, group interaction or a definite goal; children may imitate others in a group but each child acts independently

**Attention** – An ability to focus; take all stimuli in environment and focus the mind on one thing

**Competence** – The ability to perform a task, action, or function successfully

**Cooperative Play** – Any organized recreation among a group of children in which activities are planned for the purpose of achieving some goal

**Culture** – The way of life of a particular social, ethnic or age group of people which includes beliefs, arts, customs and behaviors

**Curiosity** – A desire to learn or know about something; an inquisitiveness

**Engagement** – Ability to express oneself physically, cognitively, and emotionally during an activity; to feel a connection or a strong bond to work

**Initiative** – A readiness and ability to be eager to lead an action

**Invention** – An act of devising, creating or producing using imagination (art, music)

**Parallel Play** – A developmental stage of social development; an activity in which children play with toys like those the children around them are using, but child is absorbed in his/her own activity; usually play beside rather than with one another

**Persistence** – The steady continuance of an action in spite of obstacles or difficulties

**Pretend Play** – Using an object to represent something else while giving it action and motion; actively experimenting with the social and emotional roles of life; can build skills in many developmental areas

**Resilience** – The ability to cope with and bounce back from all types of challenges. A person thrives, matures and increases competence by drawing on biological, psychological and environmental resources

**Solitary Play** – A form of play among a group of children within the same room or area in which each child engages in an independent activity using toys that are different from the toys of others; shows no interest in joining in or interfering with the play of others

**Task Analysis** – A process of breaking down complex behaviors into smaller, discrete, specific sub-behaviors to be performed in a certain order for maximum success

**Temperament** – The combination of mental, physical, and emotional traits of a person; natural predisposition
Creative thinking and expression is an important component of children's early learning experiences. Children who are given opportunities to develop their imagination and creativity through a variety of media are learning to express their individuality in interests, abilities and knowledge. When they view others' work, children are also learning to appreciate and respect differences in culture and viewpoint. Creative expression influences children's growing competence as creative problem solvers and provides insight about the world around them. Teachers support creative learning by providing concrete, process-oriented play experiences that encourage children to use their imagination and to experiment with new ideas and materials.

DIVERSITY AND CULTURE

Today's early childhood classrooms include an increasingly diverse group of children, families and teachers who represent many cultures, values and lifestyles. Providers have a unique opportunity to create welcoming environments that emphasize respect for diversity and support families' cultural and linguistic differences. Teachers must help assure the preservation of the child's home language while supporting their second language acquisition. Programs that create experiences and opportunities that honor all children's home cultures and values by developing creative strategies for including and expanding the home to school connection and provide children with varied ways to demonstrate their learning and understanding are assuring all children's success in school.
## STANDARD 9.1a: PRODUCTION AND PERFORMANCE: MUSIC AND MOVEMENT

### BIG IDEA:
Music can be used to express and initiate aesthetic and physical responses.

### ESSENTIAL QUESTIONS:
How can I use music and movement to express my ideas and feelings? Can I use the appropriate vocabulary to describe experiences?

### STANDARD STATEMENT
- Respond to different forms of music and dance and use basic vocabulary when describing action
- Identify and reproduce patterns of rhythm in music and dance

### EXEMPLARS (EXAMPLES)

#### The learner will:
- Understand and use music vocabulary
- Discuss music and movement using appropriate vocabulary: fast/slow (tempo); high/low (pitch); short/long (duration); soft/loud (volume); strong/weak beat (rhythm)
- Sing and play instruments loudly and softly
- Keep rhythm to a song or poem using body movements or instruments
- Identify the rhythm of a known song and clap the pattern as the song is sung
- Copy rhythms modeled by the teacher

### SUPPORTIVE PRACTICES

#### The adult will:
- Demonstrate singing and sources of sound, tempo, rhythm
- Use and model appropriate music and movement vocabulary when teaching
- Model and describe patterns and sequences used in dances
- Relate patterns in dance to patterns in mathematics
- Provide opportunities for learners to watch and discuss presentations or videos of music and movement
- Share a song or poem: have children clap the rhythm

### STANDARD 9.1a.1 AESTHETIC RESPONSE

### STANDARD STATEMENT
- Use instruments to accompany music or songs

### EXEMPLARS (EXAMPLES)

#### The learner will:
- Use instruments to imitate sounds – a horse's hooves, a doorbell
- Use instruments to demonstrate the melody of a song

### SUPPORTIVE PRACTICES

#### The adult will:
- Play many types of music
- Talk about the ways things sound and how that sound could be recreated
- Provide objects such as wooden bowls, that can be used to represent other sounds

### STANDARD 9.1a.2 EXPLORATION

### STANDARD STATEMENT
- Use imagination and creativity to design and perform music and dance
- Work with partner or others to represent form in space

### EXEMPLARS (EXAMPLES)

#### The learner will:
- Express ideas and feelings through music
- Use instruments to create a song
- Create a dance sequence with a beginning, middle and end
- Create movements of different tempos
- Invent rhythm to accompany a favorite story or poem
- Create movement patterns
- Create repetitive motions for songs, rhymes, finger plays and chants
- Play rhythms with instruments
- Use bodies to represent letters, shapes, objects by oneself or with others

### SUPPORTIVE PRACTICES

#### The adult will:
- Provide different types of music for children to dance and sing to
- Provide a variety of instruments for children to use, such as bells, chimes, shakers, and rhythm sticks
- Provide props to use when dancing and singing such as ribbons, hoops, and sticks
- Model examples of creating music
- Create different lyrics to a familiar song
- Provide opportunities for children to perform music and movement activities
- Take class to school assemblies and programs
- Model appropriate handling of instruments
- Demonstrate movement using time, space and locomotion
- Read a story about a particular animal and have students move like that animal
- Include vocabulary such as high/low, up/down, fast/slow, over/under
## STANDARD 9.1b: PRODUCTION AND PERFORMANCE: DRAMATIC AND PERFORMANCE PLAY

**BIG IDEA:** Dramatic and performance play is a way to act out reality and fantasy and to solve problems.

**ESSENTIAL QUESTIONS:** How can I use role-play to solve problems? Can I perform a play?

### 9.1b.1 DRAMATIC EXPRESSION

**STANDARD STATEMENT**
- Use multiple nonconforming representations of real life objects or activities
- Create and enact fantasy play scenarios
- Extend pretend play scenarios over multiple periods of time
- Use pretend play as a means to negotiate and resolve challenging situations

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Participate in role-play experiences and engage in discussion
  - Use vocabulary to discuss play activities such as, character, role, setting, story
  - Recreate situations that have caused concern during dramatic play
  - Use materials and props in non-traditional ways
  - Create new scenarios to enact

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide props and costumes associated with themes children are experiencing
  - Ask questions about the experience to guide thinking and problem-solving
  - Use appropriate theatre vocabulary as children create plays and performances
  - Use theatre vocabulary to discuss stories and poems shared in class
  - Observe dramatic play situations
  - Encourage problem-solving of classroom situations through play
  - Discuss possible solutions with children
  - Model new uses for materials and ideas

### 9.1b.2 PERFORMANCE

**STANDARD STATEMENT**
- Represent a character by using voice inflections and facial expressions
- Recreate a familiar story for an audience individually or cooperatively

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Act out parts of stories by inventing a voice and creating various facial expressions for the character
  - Act out actions that relate to stories
  - Create a play based on a familiar story
  - Use appropriate tone, actions and speech to represent characters, setting and plot in a play

**SUPPORTIVE PRACTICES**
- The adult will:
  - Model voices and facial expressions of characters while reading aloud
  - Provide opportunities for learners to practice different voice types
  - Play charades
  - Encourage learners to create plays based on familiar stories or original ideas
  - Provide guidance and suggestions during preparation of play

## STANDARD 9.1c: PRODUCTION AND PERFORMANCE: VISUAL ARTS

**BIG IDEA:** Visual arts allow individual expression of interests, abilities and knowledge.

**ESSENTIAL QUESTIONS:** Can I identify color, texture, form, objects and patterns in art? Can I create artwork using a variety of colors, forms and lines? How can I express my ideas about art and connect it to everyday life?

### 9.1c.1 REPRESENTATION

**STANDARD STATEMENT**
- Represent common themes and patterns in visual arts

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Paint and draw works of art
  - Create a picture using lines and shapes
  - Create various textures in a picture using different media
  - Create simple sculpture using clay and various tools to create texture
  - Use paints to create new shades and colors

**SUPPORTIVE PRACTICES**
- The adult will:
  - Model use of shape, texture and color
  - Discuss use of line, shape, texture, patterns in art work
  - Provide various objects with different textures to define and use
  - Display a variety of artwork
  - Provide a variety of examples of art
  - Provide opportunities for children to explore and discover
## STANDARD 9.1c: PRODUCTION AND PERFORMANCE: VISUAL ARTS

### 9.1c.2 CONSTRUCTION

**STANDARD STATEMENT**
- Create expressive images using a variety of media and techniques

**EXEMPLARS (EXAMPLES)**
The learner will:
- Express ideas and feelings through visual arts
- Create pictures that define mood
- Make choices about tools, mediums, etc for visual arts

**SUPPORTIVE PRACTICES**
The adult will:
- Provide opportunities to create expressive images through play experiences
- Provide opportunities to explore a variety of art materials and tools in their own way
- Discuss and expand the child’s art work through guided questions allowing for child’s ownership and creativity
- Model and expect safe care, handling and use of art tools

### 9.1c.3 PERSONAL CONNECTIONS

**STANDARD STATEMENT**
- Discuss how art work represents an artist and his/her thoughts, emotions

**EXEMPLARS (EXAMPLES)**
The learner will:
- Recognize and discuss own and others’ art work using appropriate vocabulary — color, shape, line and texture
- Discuss works of art to determine mood or emotion
- Point out differences and similarities in works of art
- Select pieces of artwork for display in the room or hallway
- Show respect for artwork exhibited by other students

**SUPPORTIVE PRACTICES**
The adult will:
- Use appropriate visual arts vocabulary when describing art work
- Use literature illustrations and other art works to model vocabulary and to determine mood or idea
- Describe common themes and patterns that are repeated within each art form such as color, design, movement, and shape
- Model how to self-select a best piece of artwork
- Point out artwork in hallways, offices and on field trips

## STANDARD 9.2: HISTORICAL AND CULTURAL CONTEXT OF WORKS IN THE ARTS

**BIG IDEA:** Every culture has its own art forms.

**ESSENTIAL QUESTION:** Can I use various cultural art forms within my own creations?

**STANDARD STATEMENT**
- Use various art forms from other cultures while creating own art works

**EXEMPLARS (EXAMPLES)**
The learner will:
- Create own works using various art forms from other cultures
- Create similar works of art to those displayed
- Reproduce songs and dance movements that are familiar

**SUPPORTIVE PRACTICES**
The adult will:
- Display many types of art work
- Show a variety of music and movement forms
- Play many types of music
- Provide materials and instruments from many cultures
## STANDARD: 9.3 CRITICAL RESPONSE TO WORKS OF ART

**BIG IDEA:** People make choices about the types of art they like.

**ESSENTIAL QUESTIONS:** Can I make a judgment about an art form? Can I use appropriate words and terms to talk about works of art?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Compare others’ products to one’s own work</td>
<td><strong>The learner will:</strong></td>
<td><strong>The adult will:</strong></td>
</tr>
<tr>
<td></td>
<td>• Evaluate and form judgments about art using “I” statements</td>
<td>• Model and describe judgments about others’ work using “I” statements</td>
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<tr>
<td></td>
<td>• Show respect for the response of others to a work of art</td>
<td>• Use appropriate vocabulary when discussing art (volume, rhythm, line, color, jumps, characters, and action)</td>
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<td></td>
<td>• Make comparative statements such as “I used color just like...” or “I can tap dance like...”</td>
<td>• Provide opportunities to explore increasingly more complex art forms throughout the year</td>
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</tbody>
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### 9.3.1 CRITICAL RESPONSE

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>• Recognize and name a variety of elements within one form</td>
<td><strong>The learner will:</strong></td>
<td><strong>The adult will:</strong></td>
</tr>
<tr>
<td></td>
<td>• Identify a painting, sculpture, drawing, types of dance, and types of songs</td>
<td>• Display art work throughout the classroom at children’s eye level</td>
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<td></td>
<td>• Name music by type, such as drumming or singing</td>
<td>• Discuss the various types and characteristics of painting, sculpture, dance, and song</td>
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### 9.3.2 IDENTIFICATION

<table>
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<th>SUPPORTIVE PRACTICES</th>
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</thead>
<tbody>
<tr>
<td>• Make statements that express emotion about viewing or creating various art works</td>
<td><strong>The learner will:</strong></td>
<td><strong>The adult will:</strong></td>
</tr>
<tr>
<td></td>
<td>• Respond to works of art by expressing feelings (“This makes me feel happy because...”, “This makes me feel sad because...”)</td>
<td>• Model responding to works using emotions</td>
</tr>
<tr>
<td></td>
<td>• Show appreciation for visual arts</td>
<td>• Model showing appreciation through notes</td>
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<td></td>
<td>• Respond to music by expressing feelings related to types of music</td>
<td>• Model showing appreciation clapping and saying thank you</td>
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<td></td>
<td>• Show appreciation for music and movement</td>
<td>• Ask clarifying questions such as, “Why did you say that?”, “What do you notice that makes you respond that way?”</td>
</tr>
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<td></td>
<td>• Respond to dramatic performances by expressing feelings about characters and action</td>
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</table>
### CREATIVE THINKING AND EXPRESSION GLOSSARY

**Aesthetics** – A branch of philosophy that focuses on the nature of beauty, the nature and value of the arts and the inquiry processes and human responses they produce

**Aesthetic Response** – A philosophical reply to works in the arts

**Artistic Choices** – Selections made by artists in order to convey meaning

**Arts Resource** – An outside community asset (performances, exhibitions, performers, artists)

**Assess** – To analyze and determine the nature and quality of the process/product through means appropriate to the art form

**Community** – A group of people who share a common social, historical, regional or cultural heritage

**Create** – To produce works in the arts using materials, techniques, processes, elements, principles and analysis

**Culture** – The way of life of a particular social, ethnic or age group of people which includes beliefs, customs, arts and behaviors

**Elements** – Core components that support the principles of the arts

**Genre** – A type or category (music – opera, oratorio, theater – tragedy, comedy; dance – modern, ballet; visual arts – pastoral, scenes of everyday life)

**Humanities** – The branch of learning that connects the fine arts, literature, languages, philosophy and cultural science. The humanities are concerned with the understanding and integration of human thought and accomplishment

**Multimedia** – The combined use of media, such as movies, cd-roms, television, radio, print and the internet for entertainment and publicity

**Original Works in the Arts** – Dance, music, theatre and visual arts pieces created by performing or visual artists

**Style** – A distinctive or characteristic manner of expression

**Technique** – Specific skills and details employed by an artist, craftsperson or performer in the production of works in the arts

**Timbre** – A unique quality of sound
Learning and development is typically divided into learning domains: Physical, Intellectual or Cognitive, Social–Emotional, and Language and Literacy. Cognitive learning refers to the brain’s functions that develop thinking, learning, awareness, judgment and information processing. In early childhood, Pennsylvania’s Cognitive Domain includes the standards for the Key Learning Areas of Mathematics, Science and Social Studies. While each Key Learning Area contains content-specific information, children learn this information best when activities and materials are integrated together. A science experience that uses graphing (math) and cooperative small group work (social studies) combines thinking and processing to enhance and expand problem solving and critical thinking. Units of study that incorporate all the domains of learning into connected activities and projects scaffold learning and build new understandings and connections.
Mathematical thinking in the early years relies on children’s opportunities to describe and explore the relationship of objects and materials. Children’s knowledge and understanding of mathematics is built through active manipulation where children use their senses to build concept knowledge in the areas of numbers and operations, patterns, algebra, geometry, measurement, and comparison. When children truly understand the fundamentals and have mastered the basic mathematical skills they will have the capacity and confidence to excel at learning more advanced mathematics. Teachers facilitate mathematical learning when they encourage children to problem solve, reason, communicate, connect and represent. When engaged in manipulative mathematical activities, children better understand the world around them, begin to use number concepts to communicate their own thoughts and ideas which means they are beginning to think and reason.

Use of Manipulatives in Early Learning Settings

Manipulatives are physical objects that are used as teaching tools to engage students in hands-on learning. They can be used to introduce, practice, or remediate a concept. They can be used in all areas of math instruction. One kind of basic manipulative is a counter. There are a variety of counters that can be used to explore concepts. Objects can be sorted, arranged in patterns, counted, seriated, compared, calculated and investigated. Children’s development moves from concrete to abstract so manipulatives need to be a part of instruction in all areas of development in the early years. Children can be given specific problems and activities to use with manipulatives or can use them to make discoveries and explore new ideas. The exploration of manipulatives allows children to have their curiosity satisfied. The use of manipulatives should be shared with families also.
# Standard 2.1: Numbers, Number Systems and Number Relationships

**Big Idea:** Mathematical knowledge is built in the areas of numbers and operations by organizing, representing and comparing numbers.

**Essential Questions:** Why do I need to be able to count objects? How do I use numbers every day? How can I record what I count?

## 2.1.1 Count and Compare Numbers

### Standard Statement
- Rote count by whole numbers to 100 by ones
- Attempt to count by tens along with an adult
- Read and write whole numbers 0 – 20
- Count up to 20 objects using one to one correspondence
- Use basic numbers and counting
- Use vocabulary independently to compare number of objects
- Tell what number comes before or after (up to 20)

### Exemplars (Examples)
- The learner will:
  - Practice group and individual rote counting experiences such as counting objects or children in the classroom
  - Count by ones and tens
  - Count and match up to 20 objects using one to one correspondence
  - Practice using vocabulary to compare numbers of objects (5 is more than 3; 2 is less than 3)
  - Choose from a group of three numbers what comes next

### Supportive Practices
- The adult will:
  - Provide opportunities and support learner’s counting during everyday activities
  - Provide opportunities and support learners matching and counting objects (passing out snacks, counting manipulatives, learner’s jacket, classroom materials; how many more do you need)
  - Practice rote counting on a daily basis during small group and individual activities
  - Post a number chart in the classroom for reference and daily use during small group and individual activities
  - Engage children in activities related to order of numbers (before, after) during small and individual group activities
  - Provide practice of ordering numbers in learning center activities

## 2.1.2 Represent Numbers in Equivalent Forms

### Standard Statement
- Use concrete objects to represent quantities up to and including twenty
- Identify penny, nickel, dime
- Represent equivalent forms of the same number through the use of concrete objects and drawings up to and including 20

### Exemplars (Examples)
- The learner will:
  - Represent a given number up to twenty with manipulatives
  - Count a set of manipulatives to match a given number
  - Create sets of objects up to 20
  - Recognize and practice writing numerals through 20 to label sets
  - Practice producing sets of objects and attach to number words through five with assistance (create a set of two and match to the number word 2; show the number 2 and create a set of two objects)

### Supportive Practices
- The adult will:
  - Model using the appropriate language/vocabulary, the process of counting with one to one correspondence and write the number representing that amount
  - Provide opportunities and support learners’ counting with one to one correspondence during classroom activities
  - Provide opportunities to write numerals to label sets
  - Write numerals to represent a number

## 2.1.3 Concepts of Numbers and Relationships

### Standard Statement
- Use concrete objects to separate a set into two equal parts
- Group objects into sets of ten
- Use ordinal number words to describe the position of objects
- Match numerals to sets of objects

### Exemplars (Examples)
- The learner will:
  - Analyze a set of objects and practice dividing into two equal parts (4 blocks = 2 blocks and 2 blocks)
  - Count a set of ten single objects and combine to create one set of ten
  - Use ordinal numbers to describe the positions of objects (first, second, third, last)
  - Match a numeral to a set up to 20

### Supportive Practices
- The adult will:
  - Provide opportunities, and support learners counting, reading and writing numbers during various classroom activities
  - Provide opportunities and support learners creating groups of ten during classroom activities (popsicle sticks, baggies of objects)
  - Provide opportunities for learners to order objects (classmates, colored manipulatives) in groups and centers
STANDARD 2.1: NUMBERS, NUMBER SYSTEMS AND NUMBER RELATIONSHIPS

2.1.4 PLACE VALUE

STANDARD STATEMENT
• Practice regrouping ones to tens with adult assistance

EXEMPLARY (EXAMPLES)
The learner will:
• Practice counting objects up to 20 and grouping into sets of ten with assistance (12 = one group of 10 and 2 more)

SUPPORTIVE PRACTICES
The adult will:
• Provide opportunities for regrouping ones to tens during the daily routine

INDICATOR
• Analyze numbers
• Visually quantify zero to five objects
• Solve word problems using concrete objects independently
• Create a sorting method

EXEMPLARY (EXAMPLES)
The learner will:
• Apply strategies of “counting on” and counting backwards
• Build new mathematical knowledge through problem solving
• Apply and adapt a variety of appropriate strategies to solve problems
• Increase ability to combine, separate and name how many concrete objects

SUPPORTIVE PRACTICES
The adult will:
• Analyze numbers and state properties of them
• Practice visually quantifying the number in a given set of 0 to 5 objects (that set has 3; no counting)
• Represent equivalent forms of the same number using concrete objects and drawings up to and including 10
• Sort objects by various attributes and into groups of different quantities
• Practice addition by combining sets of concrete objects
• Practice subtraction by separating sets of objects
• Practice describing the results of combining and separating two sets using math vocabulary
• Implement the strategy of “counting on” when counting two sets of objects joined together (2 apples in one set and 3 apples in another set—say 2...3, 4, 5, five apples in all)

2.1.6 CONCEPTS AND APPLICATIONS OF OPERATIONS

STANDARD STATEMENT
• Practice reading number sentences with adult

EXEMPLARY (EXAMPLES)
The learner will:
• Read number sentences in pictorial form with and without numbers with adult support (2 apples plus 1 apple = equals 3 apples)

SUPPORTIVE PRACTICES
The adult will:
• Create number sentences up to the sum of 5 using flannelboard, and/or other manipulatives on a regular basis
• Provide opportunities for learners to create and read number sentences in group settings and in learning centers

BIG IDEA: Students link concepts and procedures as they develop and use computational techniques, including estimation and mental arithmetic, to seek reasonable answers.

ESSENTIAL QUESTIONS: How do I estimate? How do I build knowledge through problem solving?

STANDARD 2.2: COMPUTATION AND ESTIMATION

2.2.1 FLUENCY IN BASIC FACTS

STANDARD STATEMENT
• Practice reading number sentences with adult

EXEMPLARY (EXAMPLES)
The learner will:
• Read number sentences in pictorial form with and without numbers with adult support (2 apples plus 1 apple = equals 3 apples)

SUPPORTIVE PRACTICES
The adult will:
• Create number sentences up to the sum of 5 using flannelboard, and/or other manipulatives on a regular basis
• Provide opportunities for learners to create and read number sentences in group settings and in learning centers

CONTINUED...
### STANDARD 2.2: COMPUTATION AND ESTIMATION

#### 2.2.2 COMPUTATION

**STANDARD STATEMENT**
- Separate concrete objects into groups
- Represent addition and subtraction in every day situations using up to ten concrete objects
- Use “counting on” as a strategy for determining the sum
- Explain the results of joining and separating sets of objects up to and including 10 using math vocabulary
- Use counting backwards as a strategy for finding a difference in the numbers 1 – 10

**EXEMPLARY (EXAMPLES)**
- **The learner will:**
  - Use counters to solve simple math stories
  - Draw pictures of two sets of objects, count them together and explain the process of joining the sets
  - Explore the concepts of addition (sum) and subtraction (difference) by joining and separating sets of objects
  - Use counters to make sets up to ten
  - Practice “counting on” and counting backwards to join and separate sets
  - Practice verbalizing that addition joins objects together and that subtraction separates items or takes away objects

**SUPPORTIVE PRACTICES**
- **The adult will:**
  - Create real life addition and subtraction problems for learners to solve by using pictures and/or concrete manipulatives
  - Identify everyday classroom opportunities that involve the operation of addition and/or subtraction
  - Create addition problems that join two sets of the same amount of objects
  - Provide opportunities and support learners separating sets of objects and/or counters into two equal groups
  - Provide opportunities and support learners using counters or objects to make and count sets (small group, individual, large group)

#### 2.2.4 NUMERICAL ESTIMATION

**STANDARD STATEMENT**
- Estimate how many objects are in a set/group up to and including twenty objects
- Check estimate by counting the number of objects

**EXEMPLARY (EXAMPLES)**
- **The learner will:**
  - Use counters to solve simple math stories
  - Draw pictures of two sets of objects, count them together and explain the process of joining the sets
  - Explore the concepts of addition (sum) and subtraction (difference) by joining and separating sets of objects
  - Use counters to make sets up to ten
  - Practice “counting on” and counting backwards to join and separate sets
  - Practice verbalizing that addition joins objects together and that subtraction separates items or takes away objects

**SUPPORTIVE PRACTICES**
- **The adult will:**
  - Model using the appropriate language/vocabulary the process of estimation (less, more, almost close, nearly)
  - Provide opportunities and support learners in estimating a quantity (students bring objects from home)
  - Provide support for learners estimating and counting the number of objects
  - Encourage and support learners in explaining how they applied their skills during mathematical tasks
  - Provide opportunities for learners to explore and apply understanding of joining subtracting, and dividing sets in learning centers
  - Incorporate estimating activities into play
  - Use cooking utensils in estimation activities (add measuring cups, pizza pans, bowls into dramatic play area)
### BIG IDEA:
Learners will identify attributes, units or systems of measurement and apply a variety of tools to explore the distance, weight, length, height, time and temperature of objects.

### ESSENTIAL QUESTIONS:
What do I understand about the measurement? How can I group objects according to common properties? What can I discover about quantities of objects?

#### 2.3.1 CONCEPTS OF MEASUREMENT

**STANDARD STATEMENT**
- Measure objects
- Practice measuring calendar time using appropriate vocabulary with scaffolding
- Demonstrate understanding of number conservation

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Use positional vocabulary to describe the relative positions of objects
  - Practice using the names of the days of the week, months of the year and the four seasons through songs, chants and fingerplays
  - Recognize parts of the day and discuss activities that occur in the morning, afternoon, and night
  - Participate using the calendar
  - Practice identifying the season, the month, and the date of today, tomorrow and yesterday with assistance
  - Match objects one to one to determine equal, more, or less in set, and verbalize the size of objects does not affect the number of objects in a set

**SUPPORTIVE PRACTICES**
- The adult will:
  - Incorporate spatial concept words into directions and sensorimotor activities throughout the day
  - Order daily events and discuss the time that daily events occur
  - Encourage the class at the end of the day to brainstorm things that happened during the day that were memorable
  - Point out months and seasons of the year as they change (characteristics)
  - Introduce and use measurement vocabulary
  - Practice one to one matching to reinforce number conservation concept (size versus number of objects; 3 oranges matched to 4 raisins = one more raisin than orange, even though oranges are larger in size than raisins)
  - Pose questions about number conservation

#### 2.3.2 UNITS AND TOOLS OF MEASUREMENT

**STANDARD STATEMENT**
- Estimate and measure objects using non-standard units
- Determine the length and height of objects with nonstandard units
- Practice naming the instruments used for measuring time, length, weight, volume, and temperature
- Order events based on time

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Select appropriate tools for the attribute being measured (clock to tell time, scale to weigh, measuring cups to help bake a cake)
  - Explore objects to determine which will make a good measuring tool (classroom objects like paper clips, unifix cubes, new pencils, shoes, hands, coins)
  - Use multiple units of the same size (non-standard units) to measure (paperclips, unifix cubes)
  - Attempt to determine activities that take a long or short time
  - Review what we do first, next, last
  - Recall what we did or plan to do yesterday, today and tomorrow
  - Talk about daily routine (name part of day; order of day; where hands on clock might be)

**SUPPORTIVE PRACTICES**
- The adult will:
  - Design and provide activities to help children recognize the attributes of length, weight, time and volume
  - Provide opportunities, and support learners in determining the appropriate measurement tool to use
  - Create measurement math stories that require students to determine which measuring tool to use (What would I need to do to find out how long I brush my teeth in the morning?)
  - Provide sequence activities in group activities (large group, small group, individual group, learning center)

#### 2.3.3 CALCULATIONS

**STANDARD STATEMENT**
- Analyze charts and graphs of objects with assistance and support from adult

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Share information about graphs and charts

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide opportunities for sharing information on graphs and charts
  - Assist learners in analyzing information from graphs
  - Reinforce and encourage efforts
### STANDARD 2.3: MEASUREMENT AND ESTIMATION continued

#### 2.3.4 CONVERSIONS

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Compare two objects using direct comparison</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Group objects according to common properties</td>
<td>• Compare and order objects on the basis of length, capacity, height, weight</td>
<td>• Incorporate comparative and spatial vocabulary to compare</td>
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<tr>
<td></td>
<td>• Use comparison vocabulary to describe how objects are related by length or height</td>
<td>• Provide interesting items for comparison in learning activities (large group, small group, center time)</td>
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<tr>
<td></td>
<td>• Compare the measurement of different classroom objects</td>
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#### 2.3.6 MEASUREMENT AND ESTIMATION

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Practice using measurement vocabulary when comparing</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Practice estimating distance/length/weight based on experience</td>
<td>• Investigate the different ways to measure the various attributes of an objects</td>
<td>• Measure objects with learners (start at an end point and add on cubes until the cubes are equal in length to the object measuring)</td>
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<tr>
<td></td>
<td>• Predict and analyze the relationship between items/objects represented by charts and graphs with assistance and support from adult</td>
<td>• Allow students to create the signs for the center areas in the room and determine how many people may be in each area</td>
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<tr>
<td></td>
<td>• Use measurement vocabulary with adult support and guidance</td>
<td>• Demonstrate how to measure objects starting at an end point and adding on cubes until the cubes are equal in length to the object they are measuring</td>
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<td></td>
<td></td>
<td>• Use appropriate measurement vocabulary regularly (Incorporate comparative and spatial vocabulary to compare, locate, and identify positions in space)</td>
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### STANDARD 2.4: MATHEMATICAL REASONING AND CONNECTIONS

#### BIG IDEA: Learners use inductive and deductive reasoning to make, check and verify predictions and to develop connections.

#### ESSENTIAL QUESTIONS: Why do I think my estimation is appropriate? How do I decide what connections there are between objects?

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</thead>
<tbody>
<tr>
<td>• Verify predictions and solutions about environmental objects</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td></td>
<td>• Analyze the size of containers and objects inside to estimate the quantity inside</td>
<td>• Provide opportunities for learners to make predictions and validate</td>
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<tr>
<td></td>
<td>• Make predictions using size and shape information</td>
<td>• Encourage and support learners to make predictions in small groups and learning centers</td>
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<tr>
<td></td>
<td>• Begin to make or test generalizations</td>
<td>• Encourage learners to explain their reasoning (predictions, solutions)</td>
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<tr>
<td></td>
<td>• Answer questions about predictions made</td>
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</tbody>
</table>
# STANDARD 2.4: MATHEMATICAL REASONING AND CONNECTIONS

## 2.4.2 CONNECTIONS

<table>
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<tr>
<th>STANDARD STATEMENT</th>
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</thead>
</table>
| Identify connections between objects to help with problem solving | The learner will:  
- Identify the common properties of objects  
- Use the common properties to answer questions about number problems, such as all those objects with straight edges will fit along the sides of a puzzle | The adult will:  
- Model, encourage and support learners as they attempt to recognize and apply techniques and strategies in solving problems and making connections  
- Provide opportunities for learners to discover the cause and effect of predictions  
- Pose daily open ended questions to promote thinking and reasoning  
- Engage children in brainstorming other objects that "go together" |

## 2.5.2 COMMUNICATION

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<thead>
<tr>
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</thead>
</table>
| Communicate the findings from the problem solving process using math vocabulary  
- Depict problem solving process through the use of pictures, simple chart or graph | The learner will:  
- Practice explaining solutions to problems using math vocabulary  
- Explain solutions to problems using visual displays  
- Ask and answer questions about problems and solutions  
- Show a visual representation of the solution | The adult will:  
- Provide opportunities for explaining problems and solutions through pictures, displays, writing, drawing, or oral discussion  
- Provide learning center activities that allow young learners to question and communicate their level of learning and understanding  
- Pose higher level questions |
**STANDARD 2.6: STATISTICS AND DATA ANALYSIS**

**BIG IDEA:** Learners collect, represent and analyze to answer questions, solve problems and make predictions.

**ESSENTIAL QUESTIONS:** How do I collect data? How do I explore and display data? How do I talk about the data? What patterns can I create and describe?

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<tr>
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</thead>
</table>
| **2.6.1 COLLECTION OF DATA** | **• Gather, organize and display data on a bar graph and/or pictograph independently**  
**• Gather data in response to questions posed to learners** | **The learner will:**  
**• Collect and organize data**  
**• Collect data by answering questions**  
**• Participate in classroom graphing activities by adding his/her input to a graph** | **The adult will:**  
**• Provide a variety of materials for sorting, classifying, and creating patterns**  
**• Provide materials in the learning centers that will facilitate collection data**  
**• Provide opportunities for learners to collect information during their learning center time** |
| **2.6.2 ORGANIZATION AND DISPLAY OF DATA** | **• Organize and display objects by one or more attributes**  
**• Practice explaining organization of data**  
**• Create various types of graphs cooperatively with an adult and with other children** | **The learner will:**  
**• Display data on yes/no, picture and bar graphs**  
**• Practice creating bar graphs, pie graphs, line graphs with scaffolding** | **The adult will:**  
**• Provide opportunities for learners to see graphs used in the real world (pizza, crackers)**  
**• Provide activities in learning centers that allow learners to create graphs and charts**  
**• Invite children to sort and organize collected materials by color, size, shape and graph** |
| **2.6.3 NUMERICAL SUMMARIES** | **• Compare groups of one to ten objects to determine more or less**  
**• Answer questions based on data shown on graphs or charts** | **The learner will:**  
**• Match objects in groups one to one to compare more or less**  
**• Count number of yes or no answers on a bar graph and recognize which has more answers** | **The adult will:**  
**• Pose open ended questions to engage learners in reading the data on a graph**  
**• Model, using the appropriate language/vocabulary, the process of determining equal and not equal sets**  
**• Support learners in determining whether sets are equal (match 1 to 1, fewer, more)**  
**• Encourage and support learners in their explanations**  
**• Work with children to create simple bar graphs, line graphs**  
**• Encourage the use of math vocabulary to explain graphs and charts** |
| **2.6.5 INTERPRETATION OF DATA** | **• Draw conclusions about information shown on a graph or chart** | **The learner will:**  
**• Answer a variety of questions about the data on graphs such as which has more answers or how many people answered a specific way** | **The adult will:**  
**• Provide opportunities for learners to explain their interpretation of graphs**  
**• Ask learners to compare groups to find which group has the most, least, equal, not equal amount**  
**• Pose questions to promote thinking and reasoning** |
## STANDARD 2.7: PROBABILITY AND PREDICTIONS

### BIG IDEA:
Learners develop and evaluate predictions that are based on knowledge and data.

### ESSENTIAL QUESTIONS:
What words can I use to describe what is on the graph? How do I predict what will come next? What predictions can I make? How accurate will my predictions be?

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</thead>
<tbody>
<tr>
<td><strong>2.7.1 Calculate Probabilities</strong></td>
<td><strong>• Predict the probability of an event</strong>&lt;br&gt;<strong>The learner will:</strong>&lt;br&gt;• Answer questions posed about particular events based on observation or experience, such as “Is there enough pizza for everyone to have another slice?”</td>
<td><strong>The adult will:</strong>&lt;br&gt;• Model, using the appropriate language/vocabulary the process of determining the likelihood an event occurring&lt;br&gt;• Review examples of events that are most likely to occur at certain times (music class on Mondays, snow on a cold blustery day, hot on a summer day)</td>
</tr>
<tr>
<td><strong>2.7.2 Prediction of Outcomes</strong></td>
<td><strong>• Predict outcomes of events</strong>&lt;br&gt;<strong>The learner will:</strong>&lt;br&gt;• What would happen if (ice cream was not put in the freezer; What would happen if you never came to school? If all the class had two cookies and the learner only had one cookie)&lt;br&gt;• Develop questions to ask prior to a field trip</td>
<td><strong>The adult will:</strong>&lt;br&gt;• Facilitate predictions for possible results by referring to previous events&lt;br&gt;• Provide opportunities for making predictions&lt;br&gt;• Support prediction efforts&lt;br&gt;• Provide opportunities for field trips</td>
</tr>
<tr>
<td><strong>2.7.3 Representations of Probabilities</strong></td>
<td><strong>• Complete a simple graph to make selection with little or no assistance</strong>&lt;br&gt;<strong>The learner will:</strong>&lt;br&gt;• Choose yes/no as the probability of a familiar action occurring (only 5 of 20 learners coming to school on a given day)&lt;br&gt;• Choose an answer to a question about a routine occurrence (When do we go to lunch? When do you go to recess?)</td>
<td><strong>The adult will:</strong>&lt;br&gt;• Provide opportunities and materials to complete simple graphs&lt;br&gt;• Provide graphs to read and interpret as part of daily routine</td>
</tr>
<tr>
<td><strong>2.7.4 Display Simple Spaces</strong></td>
<td><strong>• Create a graph or chart and describe the contents</strong>&lt;br&gt;<strong>The learner will:</strong>&lt;br&gt;• Create a graph or chart and describe the contents (bar graph or yellow, red, orange–Which has more? Which has 3?)</td>
<td><strong>The adult will:</strong>&lt;br&gt;• Provide materials for creating graphs and charts&lt;br&gt;• Provide assistance when needed</td>
</tr>
<tr>
<td><strong>2.7.5 Compare Theoretical and Experimental Probabilities</strong></td>
<td><strong>• Answer questions based on data</strong>&lt;br&gt;<strong>The learner will:</strong>&lt;br&gt;• Answer questions about graph or chart</td>
<td><strong>The adult will:</strong>&lt;br&gt;• Ask questions about graph or chart (open ended and close ended)</td>
</tr>
</tbody>
</table>
### STANDARD 2.8: ALGEBRA AND FUNCTIONS

**BIG IDEA:** Learners discover how objects are related to each other using models, patterns and functions involving numbers, shapes, and graphs in problem solving situations.

**ESSENTIAL QUESTIONS:** How do I respond to routines? How do I use manipulatives to show relationships? What patterns can I create and describe?

#### 2.8.1 ALGEBRAIC PROPERTIES

**STANDARD STATEMENT**
- Compare concrete objects to show equal or not equal

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Use manipulatives to create sets that are equal
  - Compare number sentences that show answers that demonstrate equal/unequal amounts (e.g., 2 apples + 3 apples = 5 apples and 3 apples + 2 apples also = 5 apples; 2 counters + 1 counter = 3 counters, but 1 counter + 3 counters does not equal 3 counters)

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide varied materials and amounts of materials for comparison (shells, cereal, pebbles, buttons)
  - Help children describe similarities and differences in concrete objects

#### 2.8.2 ALGEBRAIC MANIPULATIONS

**STANDARD STATEMENT**
- Recreate a simple story problem using manipulatives
- Explain story problem solutions
- Identify the purposes for different mathematical symbols with scaffolding

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Use manipulatives and/or draw pictures to recreate a story
  - Practice using numbers and symbols to represent addition and subtraction (+, -, =) in simple story problems
  - Solve a simple story problem and explain the process using math language with scaffolding if necessary

**SUPPORTIVE PRACTICES**
- The adult will:
  - Support learners in their efforts to create number stories
  - Create learning center opportunities for learners to develop story problems (flannelboard and pieces; wipe off boards; math manipulatives)
  - Ask questions to obtain learners’ understanding mathematical symbols

#### 2.8.3 PATTERNS

**STANDARD STATEMENT**
- Recognize, describe, extend and transfer patterns
- Reproduce an existing pattern and verbalize the pattern
- Identify and create complex patterns using numerous objects

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Recognize, describe, and extend a two and three element pattern (AB, ABC)
  - Reproduce an existing pattern and verbalize the pattern
  - Create a simple and/or complex pattern using various objects (AB, ABC)

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide opportunities for children to create and extend patterns
  - Model the creation of patterns using children, objects and flannelboards
  - Have children recreate patterns using lacing beads, geoboards, and other manipulatives
  - Encourage, model and discuss patterns (What is missing? Why do you think that is a pattern?)
  - Engage learners in finding patterns in the environment, patterns in mathematics
  - Engage learners in activities and interactions that encourage learners to look for patterns in and out of the classroom
  - Provide opportunities for learners to create, reproduce and extend patterns in learning centers
### STANDARD 2.8: ALGEBRA AND FUNCTIONS continued

#### 2.8.4: Functions

**STANDARD STATEMENT**
- Practice using concrete objects or pictures to represent a number story that involves a missing addend with adult assistance

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - With adult assistance and manipulatives, practice determining the missing addend in a number story

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide opportunities for determining missing addend
  - Model solving problems with missing addend using manipulatives
  - Support efforts of learners

#### 2.8.5: Modeling

**STANDARD STATEMENT**
- Create a math story from a picture

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Create a math story from a picture (2 oranges plus 2 oranges equals 4 oranges)
    - verbalize, write, draw

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide opportunities for learners to practice creating math stories from pictures (flannelboard stories, manipulative stories)
  - Model for learners and offer support for efforts

#### 2.8.6: Interpret Results of Modeling

**STANDARD STATEMENT**
- Describe data on classroom graphs using numerical math language

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Describe data through the use of a number sentence (I see 2 blue squares and 1 red square. If I put the squares together I would have 3 squares)

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide support to learners as they practice describing data using number sentences

### STANDARD 2.9: GEOMETRY

**BIG IDEA:** Children identify, name and describe a variety of shapes that are presented in many ways.

**ESSENTIAL QUESTIONS:** What makes shapes different from each other? What shapes can we see in our environment? How do shapes fit together and come apart? How can I position shapes in my environment?

#### 2.9.1: Definitions, Properties and Relations

**STANDARD STATEMENT**
- Identify and name common two- and three-dimensional geometric shapes
- Compare the attributes of shapes
- Sort geometric figures according to common attributes

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Recognize and describe the attributes of geometric figures
  - Match and compare the attributes of shapes
  - Point out specific geometric figures in environment

**SUPPORTIVE PRACTICES**
- The adult will:
  - Model, using the appropriate language/vocabulary, the process of recognizing, describing the properties and naming geometric shapes (line segment, diagonal, angle, length, width, height)
  - Provide opportunities and support learners in locating geometric shapes within the environment
  - Provide materials and support learners in creating shapes (toothpicks, popsicle sticks, foam shapes, playdoh, straws, Model Magic)
  - Provide opportunities and support learners in describing the attributes of shapes
### STANDARD 2.9: GEOMETRY continued

#### 2.9.2 Transformations and Symmetry

**STANDARD STATEMENT**
- Explore symmetry in nature
- Identify a reflection
- Create an example of symmetry independently

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Determine if shapes folded in half are the same or different (symmetrical or non-symmetrical)
  - Observe items from nature to determine if they are symmetrical or non-symmetrical (leaves, butterflies, acorns)
  - Use a variety of materials to create a symmetrical shape, such as paint blots
  - Be able to define a reflection as a figure that does not change size

**SUPPORTIVE PRACTICES**
- The adult will:
  - Model how a shape can be turned in different ways and remain the same shape
  - Use appropriate vocabulary related to geometry
  - Provide opportunities for learner to explore and apply understanding of geometry through the day

#### 2.9.3 Coordinate Geometry

**STANDARD STATEMENT**
- Practice using directionality independently
- Use position words to describe the location of objects

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Explore geometric shapes turned in different ways
  - Create various geometric shapes with manipulatives (pattern blocks, geoboards and tangrams)
  - Talk about position and location of objects in the environment

**SUPPORTIVE PRACTICES**
- The adult will:
  - Share examples of symmetry
  - Provide opportunities and support learners in determining whether a shape or object is symmetrical
  - Examine materials in nature for symmetry
  - Share reflections with learners
  - Model appropriate vocabulary

### STANDARD 2.11: CALCULUS

**BIG IDEA:** Living objects grow and move at different rates.
**ESSENTIAL QUESTIONS:** How do I know how fast one thing grows or moves?

#### 2.11.1 Extreme Values

**STANDARD STATEMENT**
- Order whole numbers (0–20) from least to greatest value

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Place number cards in order from 0–20

**SUPPORTIVE PRACTICES**
- The adult will:
  - Model, using the appropriate language/vocabulary, the process of ordering numbers from least to greatest
  - Use classroom tools such as the number line or the 100’s chart to model strategies that support learning
  - Provide opportunities and support learners in ordering numbers from least to greatest

#### 2.11.2 Rates

**STANDARD STATEMENT**
- Identify situations that occur in real life that occur quickly or slowly

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Compare vehicles, pictures of people different ages and discuss the speed or rate of growth
  - Identify animals that travel faster or slower than others
  - Sequence pictures of human growth from infancy through adulthood

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide opportunities and support learners in deciding which real life object or event is faster or slower (talk about growth)
  - Encourage and support learners in explaining how they applied their skills during mathematical tasks
  - Model using the appropriate language/vocabulary, the process of deciding which real life event or object is faster and slower
Addends – Numbers used in mathematical operation of addition

Algebraic Expression – A group of numbers, symbols and variables that express a single series of operations

Angle – A geometric figure consisting of two rays with a common endpoint

Ascending Order – A listing in which numbers or terms are organized in increasing value

Bar Graph – A graph in which horizontal or vertical bars represent data

Concrete Objects – Physical objects used to represent mathematical situations

Counting On – Given two sets of objects in which to find the sum, learner counts one set and then counts on from the first set to the second set (3 apples in one set; 1 apple in other set – learner says 1-2-3 and then 4; there are 4 in all)

Data – Information gathered by observation, questioning or measurement, usually expressed with numbers

Descending – An order in which numbers or terms are organized in decreasing value

Estimate – A close rather than exact answer

Fractional Part – Part of a whole or part of a group that is less than a whole

Function – A rule that describes the commonalities between two patterns

Graph – A pictorial device that shows a relationship between variables or sets of data

Manipulatives – A wide variety of physical materials, objects, and supplies that students use to foster mathematical learning

Non Standard Measurement – A measure that is not determined by the use of standard units (paper clips, blocks)

Numerical Operations – Place, value, number sense, counting, correspondence, comparison, ordering numbers, addition/subtraction (joining/separating sets)

Number Sense – Understanding of numbers and their quantities

Ordinal Number – A whole number that names the position of an object in a sequence

Pattern – A set or sequence of shapes or numbers that are repeated in a predictable manner

Pictograph – A graph that uses pictures or symbols to represent data

Place value – The value of the position of a digit in a numeral

Predictions – Use of base information to produce an approximation of change or result

Probability – The measure of the likelihood of an event occurring

Reflection – A transformation creating a mirror image of a figure on the opposite side of a line

Seriation – Arranging objects in order by size or position in space (arrange in a series of pattern)

Spatial Sense – Building and manipulating mental representations of two and three dimensional objects

Standard Measurement – A measure determined by the use of standard units such as, inches, feet, pounds, cups, pints, gallons

Symbol – A sign used to represent something

Symmetry – An attribute of a shape or relation; an exact reflection of a form on opposite sides of a dividing line or place

Trigonometry – Relationship between the sides and angles of triangles

Whole numbers – The set of numbers consisting of the counting numbers and zero
Ill young children are naturally curious about their environment and the world around them and learn best when allowed to actively explore using their senses. These experiences provide the foundation for abstract and scientific thought. Students, who are given opportunities to conduct experiments, gather data and make conclusions are developing skills that support discovery about the natural world and the scientific process. For the young learner scientific concepts can be incorporated throughout the key areas of early learning; for example, children use pretend play to explore and manipulate materials, creative arts to express their ideas, and literacy and language arts to research answers to questions.
### 3.1a.1 Common Characteristics of Life

**STANDARD STATEMENT**
- Identify the similarities and differences of living and non-living things
- Categorize plants and animals by external characteristics
- Describe why living things need air, food and water to survive

**EXEMPLARS (EXAMPLES)**
- Observe and document the growth of a living thing through drawings, writing and/or photos
- Note things that living things have in common (need air and water to survive)
- Note things that make living and non-living things different
- Sort animals according to their coverings such as fur, feathers, scales
- Classify insects by the ways they move such as hopping, crawling or flying
- Sort plants according to size, type of leaf, flowering or non-flowering
- Explain that living things need air and water to stay alive when asked

**SUPPORTIVE PRACTICES**
- Make comparison charts or Venn diagrams
- Display real objects as examples of living and non-living things
- Provide connections with literature
- Provide ways for children to document and illustrate their observations and discoveries
- Have children share how to care for a pet
- Grow a plant with children

### 3.1a.3 Life Cycles

**STANDARD STATEMENT**
- Identify stages of life cycles for plants and animals

**EXEMPLARS (EXAMPLES)**
- Draw and/or write the stages of a life cycle
- Recognize and sequence illustrations of a life cycle of a plant or animal

**SUPPORTIVE PRACTICES**
- Provide illustrations to demonstrate stages in life cycles
- Provide opportunities for children to observe plants or animals over time

### 3.1a.5 Form and Function

**STANDARD STATEMENT**
- Identify the specific functions of living things’ parts

**EXEMPLARS (EXAMPLES)**
- Explain that the lungs are for breathing, legs are for walking, roots intake water
- Draw and label a picture of a plant to identify specific parts

**SUPPORTIVE PRACTICES**
- Provide nonfiction texts for students to explore parts of living things
- Use diagrams to demonstrate parts of plants, animals and the human body

### 3.1a.8 Unifying Themes

**STANDARD STATEMENT**
- Identify that living things and non-living things are made of parts that perform specific functions

**EXEMPLARS (EXAMPLES)**
- Identify parts of living things and explain their relationship to the whole
- Discuss function of specific parts, such as wings are for flying and legs are for walking

**SUPPORTIVE PRACTICES**
- Set up a learning area where children can take apart items, categorize parts and draw conclusions about their functions and relationships to the whole
- Integrate the concept of parts and whole whenever possible

---

**BIG IDEA:** There are a variety of living and non-living things.

**ESSENTIAL QUESTIONS:** Do I notice similarities and patterns in living things? Can I explain why living things need air and water? Can I use my senses to help solve problems?
### STANDARD 3.1a: BIOLOGICAL SCIENCES: LIVING AND NON-LIVING ORGANISMS

**STANDARD STATEMENT**
- Use the five senses as tools with which to observe, collect information, classify, describe and solve problems
- Use observation to develop a descriptive vocabulary based on sensory experiences

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Identify the many ways senses are used
  - Identify common items using senses
  - Describe similarities and differences of items discovered using senses
  - Use comparative vocabulary to express degrees of similarities and differences
  - Use vocabulary to describe observation

**SUPPORTIVE PRACTICES**
- The adult will:
  - Compare and contrast materials
  - Provide connections to literature
  - Provide many opportunities for sensory explorations
  - Model vocabulary to extend children's observations
  - Engage children in observation and use of all senses
  - Use vocabulary when answering and asking questions
  - Write vocabulary on cards to be hung in classroom near science center

### STANDARD 3.1b: BIOLOGICAL SCIENCES: GENETICS

**BIG IDEA:** There are a variety of living and non-living things.

**ESSENTIAL QUESTIONS:** Can I compare common physical characteristics? Can I identify ways living things produce?

### 3.1b.1 HEREDITY

**STANDARD STATEMENT**
- Compare similar characteristics of own family with other families

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Name characteristics observed in photographs such as hair color, eye color and height that are common among families
  - Notice characteristics that are common within families such as everyone has red hair or blue eyes
  - Organize data to identify similarities and differences among humans
  - Describe ways in which people are more like each other than animals

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide pictures of adults and their offspring for identification of inherited physical characteristics
  - Display family photographs
  - Have children compare handprints

### 3.1b.2 REPRODUCTION

**STANDARD STATEMENT**
- Identify different ways living things reproduce

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Identify eggs, seeds, babies and match to the parent bird, plant or adult human

**SUPPORTIVE PRACTICES**
- The adult will:
  - Display pictures that show life cycles
  - Discuss how the adult begins as a seed, egg or baby
  - Provide non-fiction literature connections

### 3.1b.5 UNIFYING THEMES

**STANDARD STATEMENT**
- Explore patterns that regularly occur in nature

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Identify natural patterns in leaves, insides of shells, coats of animals
  - Replicate natural patterns using appropriate materials in the classroom

**SUPPORTIVE PRACTICES**
- The adult will:
  - Discuss attributes of a pattern whenever appropriate
  - Show examples of patterns in the environment
  - Provide materials for children to create patterns

CONTINUED...
### STANDARD 3.1b: BIOLOGICAL SCIENCES: GENETICS continued

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<th>SUPPORTIVE PRACTICES</th>
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</table>
| • Connect known ideas with new knowledge to build understanding or refine concepts | **The learner will:**  
  - Ask questions about observations  
  - Predict what might happen next  
  - Review results of experiments or observations to plan for new experiment  
  - Respond to "what if" questions | **The adult will:**  
  - Ask "what if" questions  
  - Compare and contrast materials  
  - Provide opportunities to observe and explore to build a broader base of knowledge from which to construct new ideas |

### STANDARD 3.1c: BIOLOGICAL SCIENCES: EVOLUTION

**BIG IDEA:** There are a variety of living and non-living things.

**ESSENTIAL QUESTIONS:** Can I tell what animals and humans need based on weather conditions? Can I explain why changes have occurred? Can I explain what I’ve observed?

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</table>
| • Identify characteristics for animal and human survival identified with seasonal changes | **The learner will:**  
  - Describe how animals and people adapt to the seasonal temperature change  
  - Observe and record the behavior of local animals as they prepare for changes in the seasons  
  - Match pictures of animals engaged in specific activity to a season  
  - Identify animal adaptations that help them to move in different habitats such as the webbed toes of a frog, wings on a bird, giraffe's long neck  
  - Sort animals according to their habitat  
  - Name ways humans adapt for the seasons | **The adult will:**  
  - List animals that hibernate or migrate  
  - List types of clothing people use seasonally  
  - Compare and contrast body structures of certain animals  
  - Discuss how body structures help animals survive  
  - Provide literature connections – both fiction and non-fiction |

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</table>
| • Identify reasons for observed changes | **The learner will:**  
  - Use drawings or descriptions to explain why plants change or humans dress differently for seasons | **The adult will:**  
  - Take nature walks to observe and discuss changes in the local plants and animals  
  - Provide observation journals and materials  
  - Read books or visit a construction site to observe and discuss change in natural and physical systems |

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</table>
| • Form clear explanations based on observations | **The learner will:**  
  - Record observations, explanations and ideas through multiple forms of representation including drawing, simple graphs, writing and movement  
  - Ask clarifying questions  
  - Use information collected to support answer to “why” questions  
  - Draw conclusions from results | **The adult will:**  
  - Provide opportunities to observe and record information  
  - Provide documentation of steps taken and results by chart, posters, photography  
  - Answer questions  
  - Provide resources for children to find answers  
  - Provide feedback on child’s conclusions |
## STANDARD 3.2a: PHYSICAL SCIENCES: CHEMISTRY

**BIG IDEA:** Physical properties help us to understand the world.

**ESSENTIAL QUESTIONS:** What happens when I combine objects or substances? How do I discover the properties of objects?

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<tr>
<th>3.2a.1 PROPERTIES OF MATTER</th>
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<tbody>
<tr>
<td></td>
<td>• Classify items by properties of matter</td>
<td>The learner will: • Sort and classify common classroom materials or household items by solid, liquid or gas</td>
<td>The adult will: • Provide materials such as clay, cloth, paper or pictures for children to sort and classify • Compare and contrast properties of matter</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>3.2a.2 STRUCTURE OF MATTER</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>• Identify the three types of matter</td>
<td>The learner will: • Identify solid, liquid and gas when presented with real objects or pictures</td>
<td>The adult will: • Fill two clear containers; one with solid objects and the other with colored liquid. Label another empty container. Encourage children to identify the type of matter in each container</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>3.2a.3 MATTER AND ENERGY FLOW</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Describe the way matter can change</td>
<td>The learner will: • Use the words melt, heat, mix, cut, freeze to describe what happens to matter</td>
<td>The adult will: • Model appropriate vocabulary while engaging with children in experiments • Use words such as mixture, liquid, solid, combine, mix, freeze, melt</td>
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<tr>
<th>3.2a.4 REACTIONS</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
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<tbody>
<tr>
<td></td>
<td>• Describe what happens when two or more substances are combined</td>
<td>The learner will: • Participate in safe classroom cooking activities • Describe what happens when ingredients are combined • Observe and describe an ocean in a bottle</td>
<td>The adult will: • Add water and vegetable or baby oil to make an ocean in a bottle • Use vocabulary when conducting cooking activities • Ask children to predict what will happen as substances are combine</td>
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</tbody>
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<thead>
<tr>
<th>3.2a.5 UNIFYING THEMES</th>
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<th>EXEMPLARS (EXAMPLES)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>• Examine and explain change through simple observation and recording</td>
<td>The learner will: • Record results of cooking activities or experiments using matter • Draw an explanation of what occurred</td>
<td>The adult will: • Provide activities for observation and the documentation of change • Provide literature to support connections</td>
</tr>
</tbody>
</table>
### BIG IDEA:
Physical properties help us to understand the world.

### ESSENTIAL QUESTIONS:
- Can I use wind or water power?
- Can I describe variations in sound?
- Can I explain a reaction sequence?
- Can I design a scientific investigation?

### STANDARD STATEMENT
- Apply knowledge of motion to new toys and objects

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Push or pull a toy to make it go forward, forward, around or zig zag
  - Use ramp to increase speed
  - Create ramps of various sizes
  - Describe play with toys using directional words

### SUPPORTIVE PRACTICES
- The adult will:
  - Include materials in centers for children to explore motion such as inclines and wheeled toys in the block area or clear tubing at the water table

### STANDARD STATEMENT
- Explore basic energy types and sources

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Identify energy forms such as sunlight, heat, wind and motion
  - Make rockets with balloons
  - Build pinwheels, kites or paper airplanes to explore wind
  - Use water wheels and tubing at the water table to create different effects

### SUPPORTIVE PRACTICES
- The adult will:
  - Provide experiments that use energy
  - Read non-fiction books
  - Ask children to explain what is making the object move

### STANDARD STATEMENT
- Use and explain the concepts of magnetic force

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Use a magnet to attach one object to another
  - Describe and record what occurs when magnets are near objects
  - Identify things that are magnetic or non-magnetic

### SUPPORTIVE PRACTICES
- The adult will:
  - Create a chart of things that are magnetic
  - Encourage children to use magnets in structures and buildings when possible

### STANDARD STATEMENT
- Demonstrate and describe variations of sound

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Use a variety of materials to create sounds
  - Identify sources of sound
  - Identify a sound as high or low, loud or soft
  - Use varying force to create different sounds
  - Observe and relate that vibrations of objects such as guitar strings or a drum head create sound

### SUPPORTIVE PRACTICES
- The adult will:
  - Provide materials for sound exploration
  - Take a sound walk to identify sounds
  - Provide instruments for exploration

### CONTINUED...
### STANDARD 3.2b: PHYSICAL SCIENCES: PHYSICS  
continued

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<tr>
<td>Identify the relationship between action and its reaction using an “if-then” statement.</td>
<td>The learner will: Make a statement such as “If I do...then...will happen.”</td>
<td>The adult will: Engage children in identifying and implementing solutions. Set up problem solving activities. Provide materials to test out solutions.</td>
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<tr>
<td>Create scientific investigations.</td>
<td>The learner will: Identify a problem to be solved, pose possible solutions and test them, with adult support.</td>
<td>The adult will: Engage children in identifying and implementing solutions. Set up problem solving activities. Provide materials to test out solutions.</td>
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### STANDARD 3.3a EARTH AND SPACE SCIENCES: EARTH STRUCTURE, PROCESSES AND CYCLES

#### BIG IDEA: Interactions occur on Earth and in space.

#### ESSENTIAL QUESTIONS: Can I identify earth forms in my community? Can I identify changes through observation and explanation? Can I distinguish between types of earth? Can I use tools and observation to find information?

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<tr>
<td>Identify and distinguish between earth forms.</td>
<td>The learner will: Use the terms flat land, hills and mountains to describe local spaces in the community. Create a mural that illustrates the concepts of flat land, hills and mountains.</td>
<td>The adult will: Use books and pictures to show examples of land forms. Take the children on a walk or field trip to experience these landforms. Provide art materials to make pictures and models of these landforms.</td>
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<tr>
<td>Distinguish between three types of earth: rock, soil and sand.</td>
<td>The learner will: Use vocabulary to describe features of types of earth. Examine materials and label them. Sort rocks by attributes on a rock chart. Compare and contrast a collection of rocks. Place rocks on a balance to determine which one is heavier.</td>
<td>The adult will: Rotate soil, sand and different rock types in the sensory table for exploration. Take children to dig for soil samples and observe what is in the soil such as worms, leaves and rock. Take children on a rock discovery walk. Ask questions about the attributes of rocks. Provide tools for observation.</td>
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### STANDARD 3.3a.4 WATER

**STANDARD STATEMENT**
- Identify examples of water in solid and liquid states
- Identify sources of water

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Identify water and ice
  - Explain what makes water solid and what makes ice melt
  - Identify streams, lakes, oceans

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide water for exploration
  - Bring icicles and snow into the classroom for exploration and experimentation
  - Talk about sources of water
  - Create a KWL chart about water around the world
  - Provide literature connections about fresh and salt water

### STANDARD 3.3a.5 WEATHER AND CLIMATE

**STANDARD STATEMENT**
- Identify seasonal changes in the environment
- Distinguish between different types of precipitation
- Collect, describe and record information about weather
- Read a thermometer to identify the temperature

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Create a seasonal collage or booklet for each season
  - Create a picture showing different types of precipitation
  - Name various types of precipitation such as rain, fog, snow, hail
  - Discuss the weather as it pertains to meaningful events such as going outside for recess or going on a field trip
  - Conduct an experiment using a rain gauge
  - Read a thermometer to determine the outside temperature

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide materials for children to sort according to weather or season
  - Provide materials to investigate weather concepts such as making a cloud in a jar, making hail with colored clay or building a wind vane with cardstock and straws
  - Use the newspaper weather report to discuss weather around the state, country and world
  - Conduct weather experiments
  - Chart the daily temperature
  - Create a daily weather graph to compare and contrast monthly weather and temperature patterns

### STANDARD 3.3a.6 UNIFYING THEMES

**STANDARD STATEMENT**
- Examine and explain change through simple observation and recording

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Record own growth from infancy to kindergarten through the use of photographs, drawings and writings
  - Plant seeds, recording the change in their appearance over time
  - Record the seasonal change in the appearance of a tree throughout the year

**SUPPORTIVE PRACTICES**
- The adult will:
  - Read books about animals and changes
  - Visit a construction site to observe and record changes
  - Go on nature walks to observe and discuss changes in the local plants and animals
  - Provide activities for observation and the documentation of change
### STANDARD 3.3b: EARTH AND SPACE SCIENCES: ORIGIN AND EVOLUTION OF THE UNIVERSE

**BIG IDEA:** Interactions occur on Earth and in space.  
**ESSENTIAL QUESTION:** Can I identify features in space?

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</table>
| Identify features of space | The learner will:  
  - Name features found in space such as stars, moon, planets, sun  
  - Tell an adult about how big the moon was last night  
  - Discuss how people travel in space  
  - Notice changes in sidewalk shadows over time | The adult will:  
  - Provide pictures of space including planets, stars, galaxy  
  - Read books about space and space travel  
  - Provide models of planets and spaceships for play  
  - Discuss space travel  
  - Show videos of space ships taking off, traveling in space and landing |

### STANDARD 3.4a: TECHNOLOGY: SCOPE OF TECHNOLOGY

**BIG IDEA:** Technology impacts daily living.  
**ESSENTIAL QUESTIONS:** Can I identify many types of technology and functions?  Can I use technology to complete a task?

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</table>
| Identify types of technology in the workplace, school or home | The learner will:  
  - Identify phones, computers, printers and copiers | The adult will:  
  - Talk about the kinds of technology at school or in a business  
  - Compare and contrast this technology to what is found in a home |

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</table>
| Identify types of technology by function | The learner will:  
  - Sort and classify technology by function such as a camera and video recorder can take pictures | The adult will:  
  - Provide pictures or examples of real items for children to sort and classify |

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| Select and use appropriate technology to complete a task | The learner will:  
  - Use a computer to write a document or a CD player to listen to a song or story | The adult will:  
  - Enable children to have the capacity to use technology independently |
**STANDARD 3.4a: TECHNOLOGY: EXPLORATION, INQUIRY AND INVENTION; TECHNOLOGY AND ENGINEERING DESIGN**

**BIG IDEA:** Technology impacts daily living.

**ESSENTIAL QUESTIONS:** Can I use simple tools as intended?

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<tr>
<td>3.4c.1 DESIGN ATTRIBUTES</td>
<td>• Solve simple problems using appropriate tools and materials</td>
<td>The learner will: • Use a thermometer to discover the temperature • Get a pail to carry water to the water table • Sweep up spilled pencil shavings using a dust pan and broom</td>
</tr>
<tr>
<td>3.4c.2 ENGINEERING DESIGN</td>
<td>• Experiment creating new designs with a variety of materials</td>
<td>The learner will: • Experiment creating new designs using classroom materials (a variety of shapes, blocks, manipulatives, scrap of fabric)</td>
</tr>
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</table>

**STANDARD 3.4d: TECHNOLOGY: EXPLORATION, INQUIRY AND INVENTION: ABILITIES FOR A TECHNOLOGICAL WORLD**

**BIG IDEA:** Technology impacts daily living.

**ESSENTIAL QUESTIONS:** Can I identify the steps in completing a project?

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<tbody>
<tr>
<td>3.4d.1 APPLYING THE DESIGN PROCESS</td>
<td>• Identify the steps in completing a project</td>
<td>The learner will: • Tell all the steps necessary in constructing a block structure</td>
</tr>
</tbody>
</table>
## BIG IDEA: Technology impacts daily living.

### ESSENTIAL QUESTIONS: Can I describe medical equipment? Can I describe and use wind power? Can I use a computer in many ways? Can I describe transportation and construction vehicles?

### STANDARD STATEMENT
- **3.4e.1 Medical Technologies**
  - Describe the appropriate instruments used in medical technology

### EXEMPLARS (EXAMPLES)
- **The learner will:**
  - Explain which device would be used to listen to the heart or lungs or which one would be used to take blood pressure

### SUPPORTIVE PRACTICES
- **The adult will:**
  - Provide pictures that show instruments being used for certain functions
  - Discuss how instruments should be used

### STANDARD STATEMENT
- **3.4e.3 Energy and Power Technologies**
  - Describe wind power

### EXEMPLARS (EXAMPLES)
- **The learner will:**
  - Describe how wind power can move objects
  - Move objects by different types of wind power, such as blowing or waving in the air

### SUPPORTIVE PRACTICES
- **The adult will:**
  - Provide materials for children to create objects to use in the wind

### STANDARD STATEMENT
- **3.4e.4 Information and Communication Technologies**
  - Identify communication methods that exist within the home and school
  - Use a computer for a variety of applications

### EXEMPLARS (EXAMPLES)
- **The learner will:**
  - Identify phone, intercom, computer
  - Access information via a web browser with teacher assistance
  - Design a picture on the computer
  - Create a word processed document

### SUPPORTIVE PRACTICES
- **The adult will:**
  - Talk about the ways that people can communicate with one another at home and at school
  - Use computer
  - Identify topics to explore using a web browser
  - Provide regular computer access during play and structured parts of the day
  - Use the computer to enhance other learning
  - Send email to parent or guardian

### STANDARD STATEMENT
- **3.4e.5 Transportation Technologies**
  - Describe types of transportation vehicles and how they operate

### EXEMPLARS (EXAMPLES)
- **The learner will:**
  - Explain that a train moves on rails, a boat floats with wind or motor power, a car or truck drives on the road and a plane flies in the air

### SUPPORTIVE PRACTICES
- **The adult will:**
  - Display pictures of many kinds of transportation
  - Provide a variety of transportation toys
  - Encourage children to sort and classify vehicles using a variety of categories

### STANDARD STATEMENT
- **3.4e.7 Construction Technologies**
  - Describe construction vehicles, simple tools, materials and processes

### EXEMPLARS (EXAMPLES)
- **The learner will:**
  - Use toys and vehicles to recreate and describe a construction process

### SUPPORTIVE PRACTICES
- **The adult will:**
  - Provide pictures of constructions sites with tools, materials and equipment
  - Provide books describing types of vehicles, tools and materials
  - Visit a construction site
### STANDARD 4.1: ENVIRONMENT AND ECOLOGY

**BIG IDEA:** We are impacted and have impact on our environment.

**ESSENTIAL QUESTIONS:** Can I identify types of moving water? What are some products that come from nature? How can I conserve and protect natural resources? How does agriculture support human needs? What are some events that occur in a cycle in nature? Can I explain that dinosaurs are extinct? Can I match shelters to an appropriate environment?

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</table>
| **4.1 WATERSHEDS AND WETLANDS** | • Identify bodies of water in the world  
• Identify types of moving water | The learner will:  
• Describe the differences between bodies of water such as ocean, river, lake and puddle  
• Identify different bodies of water in photographs and videos  
• Participate in experiments to see how water moves  
• Identify moving water such as rivers and oceans  | The adult will:  
• Read books about different bodies of water  
• Provide photographs and videos that show various bodies of water  
• Take field trips to experience and observe bodies of water, when possible  
• Provide opportunities for experiments to understand the movement of water |
| **4.2 RENEWABLE AND NON-RENEWABLE RESOURCES** | • Identify products that come from nature  
• Identify ways to conserve resources | The learner will:  
• Identify paper or syrup as things that come from nature  
• Distinguish between something in its natural state and something in a manufactured state such as cotton and cloth  
• List ways to conserve water or electricity at home and school  
• Create illustrations, posters and/or murals showing ways to save water or electricity | The adult will:  
• Provide examples of items in natural and manufactured forms such as apples and applesauce  
• Discuss the importance of water and electricity and ways to conserve it  
• Read books about conservation of resources  
• Invite guest speakers to discuss conservation |
| **4.3 ENVIRONMENTAL HEALTH** | • Describe the effects litter and pollution have on the environment | The learner will:  
• Name the ways litter and pollution harm the environment | The adult will:  
• Facilitate experiments that demonstrate the effects of pollutions such as oil spills or excessive noise  
• Conduct a litter clean up |
| **4.4 AGRICULTURE AND SOCIETY** | • Explain that agriculture (farming) provides humans with basic needs | The learner will:  
• Identify the components of the farming system such as the farmer, animals, buildings, land in drawings or models  
• Identify the activities on a farm such as shearing and how that provides humans with clothing  
• Connect the types of things produced on a farm with things humans need | The adult will:  
• Take a field trip to a local farm or dairy and a grocery store to see where the food comes from  
• Display photographs of Pennsylvania farms  
• Invite a farmer to visit the classroom to share what they do |

**CONTINUED...**
4.6 Ecosystems and their Interactions

**Standard Statement**
- Record and describe events that occur in a cycle

**Exemplars (Examples)**
- The learner will:
  - Illustrate and describe the cycle of day and night
  - Discuss other cycles that occur in nature such as seasons, seeds to plants
  - Sequence pictures of cyclic events in nature

**Supportive Practices**
- The adult will:
  - Provide pictures to practice sequencing
  - Discuss and compare cycles in nature
  - Read books such as The Very Hungry Caterpillar, The Tiny Seed or A House for a Hermit Crab

4.7 Threatened, Endangered and Extinct Species

**Standard Statement**
- Identify why some animals and plants are extinct

**Exemplars (Examples)**
- The learner will:
  - Explain that dinosaurs are no longer on the Earth because they are extinct
  - Define the meaning of extinct
  - Tell why species become extinct
  - Identify the difference between extinct and endangered

**Supportive Practices**
- The adult will:
  - Read books and other information about dinosaurs
  - Use the word extinct to explain why dinosaurs are no longer present on the Earth

4.8 Humans and the Environment

**Standard Statement**
- Explain that humans live in shelters dependent on the environment

**Exemplars (Examples)**
- The learner will:
  - Describe protective shelters
  - Name a variety of shelters that humans use
  - Match shelters to areas in which they would be appropriate

**Supportive Practices**
- The adult will:
  - Discuss how laws and rules help us
  - Create a list of rules that help protect the environment
  - Invite people who hold jobs dealing with the environment to describe their job and why it’s important

4.9 Environmental Laws and Regulations

**Standard Statement**
- State rules that protect the environment

**Exemplars (Examples)**
- The learner will:
  - Describe the ways in which these rules are helpful
  - Name specific rules such as Do Not Litter
  - Create posters or murals describing these rules

**Supportive Practices**
- The adult will:
  - Talk about matching shelter to the environment such as a houseboat on a river or an apartment in a city
  - Read books about types of shelters
  - Display pictures of a variety of shelters in many environments
SCIENCE AND TECHNOLOGY GLOSSARY

Construction Technology – The ways that humans build structures on sites
Fact – Information that has been objectively verified
Hypothesis – An assertion subject to verification or proof as a premise from which a conclusion is drawn
Information Technology – The technical means that humans create to store and transmit information
Inquiry – A systematic process for using knowledge and skills to acquire and apply new knowledge
Law – Summarizing statement of observed experimental facts that has been tested many times and is generally accepted as true
Manufacturing Technology – The ways that humans produce goods and products
Model – A description, analogy or a representation of something that helps us understand it better (a physical model, a conceptual model, a mathematical model)
Patterns – Repeated processes that are exhibited in a wide variety of ways; identifiable recurrences of the element and/or the form
Science – Search for understanding of the natural world using inquiry and experimentation
System – A group of related objects that work together to achieve a desired result
Transportation Systems – A group of related parts that function together to perform a major task in any form of transportation
Transportation Technology – The physical ways humans move materials, goods and people
Tool – Any device used to extend human capability including computer-based tools

ENVIRONMENT AND ECOLOGY GLOSSARY

Environment – The total of the surroundings (air, water, soil, vegetation, people, wildlife) influencing each living being’s existence, including physical, biological and all other factors; the surroundings of a plant or animal, including other plants or animals, climate and location
Extinction – The complete elimination of a species from the earth
Nonrenewable resources – Substances (oil, gas, coal, copper, gold) that, once used, cannot be replaced in this geological age
Recycling – Collecting and reprocessing a resource or product to make into new products
Regulation – A rule or order issued by an executive authority or regulatory agency of a government and having the force of law
Renewable – A naturally occurring raw material or form of energy that will be replenished through natural ecological cycles or sound management practices (the sun, wind, water, trees)
Wetlands – Lands where water saturation is the dominant factor determining the nature of the soil development and the plant and animal communities (sloughs, estuaries, marshes)

Ecosystem – A community of living organisms and their interrelated physical and chemical environment
Endangered species – A species that is in danger of extinction throughout all or a significant portion of its range
The foundation of social studies, economics, history and the workings of government begin with children’s personal experiences and their initial understanding of themselves in relation to their families, homes and schools. Gradually, students expand their understanding to include communities and the larger world. As their perception grows, they further expand this scope to understand how systems work together. Adults facilitate children’s social studies skill development by helping them engage in active investigations that build knowledge and understanding.

**Social Studies Thinking**

**Connecting to Communities**

**Play, Play and Play Some More!**

The best way to support children’s learning in the early years is to provide hands-on, active learning experiences that include play activities. Play enables children to weave together past knowledge and new information in order to acquire new understanding and skill development. A child who discovers the characteristics of apples through manipulating, investigating and exploring them understands the depth of apples better than a child who colors a worksheet picture of an apple. Children who learn together in the dramatic play or block areas how to cooperate in order to figure out how many blocks can be added to a structure before it falls have stronger social and creative thinking sequences. Play sequences and activities expand across all Key Areas of Learning and can build social, cognitive and physical skill development when they are intentionally planned and facilitated by teachers who interact with children, asking open-ended questions to scaffold children’s thinking and problem solving.

**Standard**

5.1 Principles and Documents of Government ............ 48
5.2 Rights and Responsibilities of Citizens .............. 48
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7.2 Physical Characteristics of Places and Regions .... 53
7.3 Human Characteristics of Places and Regions .... 54
7.4 Interactions Between People and the Environment . 54
8.1 Historical Analysis and Skills Development ......... 55
### STANDARD 5.1: PRINCIPLES AND DOCUMENTS OF GOVERNMENT

**BIG IDEA:** Good citizens follow rules.

**ESSENTIAL QUESTIONS:** What rules and consequences are important? Can I identify some American symbols?

<table>
<thead>
<tr>
<th><strong>5.1 SOURCES, PURPOSE AND FUNCTIONS OF LAW</strong></th>
<th><strong>STANDARD STATEMENT</strong></th>
<th><strong>EXEMPLARY (EXAMPLES)</strong></th>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.1 SOURCES, PURPOSE AND FUNCTIONS OF LAW</td>
<td>• Explain the purpose of a rule</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Identify rules in school related to fire drills, lunch, walking in the halls, bus safety, classroom, and playground</td>
<td>• Engage students in developing a set of classroom rules</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain why rules are important</td>
<td>• Take a practice bus ride and discuss bus safety rules</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Explain what happens when rules are broken</td>
<td>• Model and practice rules for all areas of the building</td>
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<td></td>
<td></td>
<td>• Suggest rules that could make the classroom or school a better place</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>5.1.5 SYMBOLS AND HOLIDAYS</strong></th>
<th><strong>STANDARD STATEMENT</strong></th>
<th><strong>EXEMPLARY (EXAMPLES)</strong></th>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.5 SYMBOLS AND HOLIDAYS</td>
<td>• Identify several American symbols</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Identify images, pictures or items that are symbols of America</td>
<td>• Display the American flag in the classroom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Name the American flag</td>
<td>• Recite the Pledge of Allegiance daily</td>
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<tr>
<td></td>
<td></td>
<td>• State that George Washington was the first President</td>
<td>• Display pictures of American symbols</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Discuss the first Thanksgiving</td>
<td>• Read books that relate to symbols of America</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Discuss holidays that relate to America</td>
</tr>
</tbody>
</table>

### STANDARD 5.2: RIGHTS AND RESPONSIBILITIES OF CITIZENSHIP

**BIG IDEA:** Citizenship involves responsibility to myself and others.

**ESSENTIAL QUESTIONS:** Can I describe some jobs I must do at school? Can I apply conflict resolution strategies? What do I do as a leader? How do I show examples of good citizenship at school?

<table>
<thead>
<tr>
<th><strong>5.2 CIVIC RIGHTS, RESPONSIBILITIES AND DUTIES</strong></th>
<th><strong>STANDARD STATEMENT</strong></th>
<th><strong>EXEMPLARY (EXAMPLES)</strong></th>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2.1 CIVIC RIGHTS, RESPONSIBILITIES AND DUTIES</td>
<td>• Identify responsibilities at school</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td></td>
<td>• Participate in activities that support the life of the classroom and/or school</td>
<td>• Demonstrate the ability to maintain personal materials in an orderly manner</td>
<td>• Define the expectations in the classroom</td>
</tr>
<tr>
<td></td>
<td>• Identify community workers that exist in most or all communities</td>
<td>• Respect the space and materials of others in the classroom or school</td>
<td>• Model and reinforce how to care for classroom and personal materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Help care for class and school equipment, tools, materials and environment</td>
<td>• Give students classroom jobs and responsibilities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Participate in group decision-making</td>
<td>• Engage children in class meetings and decision-making</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Work cooperatively with other children to achieve an outcome</td>
<td>• Provide cooperative learning activities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Name community agencies and workers that protect us or keep us healthy, such as fire fighters and police and hospitals, doctors and nurses</td>
<td></td>
</tr>
</tbody>
</table>
5.2.2 SOURCES AND RESOLUTION OF CONFLICT

**STANDARD STATEMENT**
- Identify the sources of conflict and disagreement and different ways conflict can be resolved

**EXEMPLARY (EXAMPLES)**
- The learner will:
  - State the cause of a problem
  - Suggest solutions for a problem
  - Continue to attempt to solve a problem until a solution is successful

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide instruction in conflict resolution strategies
  - Provide support at children work together to resolve a problem
  - Use questions to enhance and expand children’s thinking about problems

5.2.3 POLITICAL LEADERSHIP AND PUBLIC SERVICE

**STANDARD STATEMENT**
- Participate in leadership opportunities in the classroom

**EXEMPLARY (EXAMPLES)**
- The learner will:
  - Accept job responsibilities
  - Offer to assist the teacher or another student

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide children with job responsibilities within the classroom
  - Ask for assistance from children

5.2.4 COMPETENT AND RESPONSIBLE CITIZENS

**STANDARD STATEMENT**
- Describe how to be a responsible member of a class or other group to which one belongs

**EXEMPLARY (EXAMPLES)**
- The learner will:
  - Share examples of good citizenship and responsibility at school
  - Recite a bully free pledge

**SUPPORTIVE PRACTICES**
- The adult will:
  - Recognize children who demonstrate traits of good citizenship and character
  - Encourage children to participate in cooperative games and play
  - Use “what if” situations to help children consider appropriate behaviors and responses
  - Support a bully free class and school

5.3.1 BRANCHES OF GOVERNMENT

**STANDARD STATEMENT**
- Identify positions of authority at school and community
- Describe the roles of students, teachers and administrators

**EXEMPLARY (EXAMPLES)**
- The learner will:
  - Identify the principal, teachers, guidance counselor as people in authority at school
  - Identify police officers and firemen as people in authority in the community
  - Model these people in play

**SUPPORTIVE PRACTICES**
- The adult will:
  - Talk about the roles of the principal, guidance counselor, and school nurse, and what they do at school
  - Invite police officers and firemen to visit to explain their work and how they keep us safe
  - Observe play situations to correct misinterpretations of roles
  - Visit the principal’s office
  - Read books about the people who work at the school or in the community
## STANDARD 6.1: ECONOMIC SYSTEMS

**BIG IDEA:** People work in our community.

**ESSENTIAL QUESTIONS:** Can I determine how to divide and distribute things evenly? Can I describe how community jobs are the same and different?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.2 Traditional, Command and Market Economies</td>
<td>Practice equal distribution</td>
<td>The learner will: Pass out an equal number of snacks to all children, Divide materials and toys evenly among those playing, Correct the problem if one child has more or less than another</td>
</tr>
<tr>
<td>6.1.3 Measures of Economic</td>
<td>Identify the role of people in a community and what they do to make a living, Describe why people work</td>
<td>The learner will: Match descriptions of people’s work in a community with pictures illustrating the job, Talk about the need to work and why each job is important, Recognize how jobs are similar and different, Listen to various stories about community helpers and various jobs</td>
</tr>
</tbody>
</table>

## STANDARD 6.2: MARKETS AND THE FUNCTIONS OF GOVERNMENT

**BIG IDEA:** Money and resources impact our life.

**ESSENTIAL QUESTIONS:** Can I define a product and who buys it? Can I name some coins and their values? Can I tell what I could buy at a specific location? Can I talk about what an advertisement is?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2.1 Market Transactions</td>
<td>Define goods and consumers</td>
<td>The learner will: Give examples of goods and consumers, Give examples of how people can be both buyers and sellers of goods and services</td>
</tr>
<tr>
<td>6.2.3 Function of Money</td>
<td>Identify and practice using money</td>
<td>The learner will: Identify some coins and values, Identify some paper currency, Use “money” or tokens to purchase items</td>
</tr>
</tbody>
</table>
### STANDARD 6.2: MARKETS AND THE FUNCTIONS OF GOVERNMENT

#### 6.2.5 CHANGES IN SUPPLY AND DEMAND

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
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<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop an understand of how goods and services are produced and distributed</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Recognize that goods are purchased with money</td>
<td>• Compare a good to a service</td>
<td>• Make a list of services that can be purchased such as haircuts, dry cleaning, repair work</td>
</tr>
<tr>
<td>• Begin to understand limitations for purchases (Don’t always have enough money to buy something)</td>
<td>• Talk about how goods are distributed such as trucks and trains</td>
<td>• Provide literature about goods and services</td>
</tr>
<tr>
<td>• Discuss the difference between goods and services</td>
<td>• Provide props and costumes in the dramatic play area to create a hair salon or a workshop</td>
<td></td>
</tr>
</tbody>
</table>

#### 6.2.11 IMPACT OF MEDIA ON THE COST AND BENEFITS OF DECISIONS

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Define an advertisement</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• State that advertisements encourage us to purchase goods or services</td>
<td>• Talk about commercials on TV or billboards in the environment that encourage us to purchase things</td>
<td>• Provide advertisements from magazines or newspapers for children to identify</td>
</tr>
<tr>
<td>• Recognize advertisements in magazines, on TV or in the environment</td>
<td>• Talk about the purposes of advertisements and encourage children to think about them in terms of wants or needs</td>
<td></td>
</tr>
</tbody>
</table>

### STANDARD 6.3: SCARCITY AND CHOICE

#### BIG IDEA: There is a difference between wants and needs and how we acquire items.

#### ESSENTIAL QUESTIONS: Can I tell if I need or want something? Can I distribute items fairly? Do I notice that items are becoming limited before they run out?

#### 6.3.1 SCARCITY AND LIMITED RESOURCES

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distinguish between wants and needs and how money or materials should be used</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Identify resources that help us provide for our wants and needs</td>
<td>• Talk about ways to get more resources if needed</td>
<td>• Create a list of limited resources</td>
</tr>
<tr>
<td>• Identify how those items are acquired</td>
<td>• Compare wants and needs</td>
<td>• Provide tokens for children to vote on acquiring items wanted or needed</td>
</tr>
<tr>
<td>• Determine a want or a need</td>
<td>• Indicate that a resource was limited but now has been replenished</td>
<td></td>
</tr>
</tbody>
</table>

#### 6.3.3 ALLOCATION OF RESOURCES

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practice distributing items fairly</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Notice when materials are becoming limited</td>
<td>• Distribute resources fairly when other child(ren) need something</td>
<td>• Provide enough resources for children working in an area</td>
</tr>
<tr>
<td>• Indicate to teacher that materials such as paper or pencils are becoming limited and need to be replenished</td>
<td>• Encourage children to think about how to get more resources if needed</td>
<td>• Indicate that a resource was limited but now has been replenished</td>
</tr>
</tbody>
</table>
## STANDARD 6.4: ECONOMIC INTERDEPENDENCE

**BIG IDEA:** Trade is a way to distribute and receive materials.  
**ESSENTIAL QUESTIONS:** How do I trade fairly?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.4.2 TRADE</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td></td>
<td>• Trade materials based on wants and needs</td>
<td>• Talk about fair trading</td>
</tr>
<tr>
<td></td>
<td>• Trade toys or materials for others that are wanted or needed</td>
<td>• Encourage children to trade items when resources are limited</td>
</tr>
</tbody>
</table>

## STANDARD 6.5: WORK AND EARNINGS

**BIG IDEA:** People work to earn money.  
**ESSENTIAL QUESTIONS:** Can I explain why people work? Can I explain what things I might buy at a specific location? How do I save money for a purpose?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
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<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5.1 FACTORS INFLUENCING WAGES</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Explain that adult earns money from working to buy things that are wanted or needed</td>
<td>• Explain that people work to earn money</td>
<td>• Reinforce the idea that we work to get money</td>
</tr>
<tr>
<td>• Describe that different jobs pay different amounts of money</td>
<td>• State that this money is used to buy things that are wanted or needed</td>
<td>• Support the idea that money to buy items comes from this work</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Talk about how we buy things that we want and how we buy things that we need</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Indicate that people do many different kinds of jobs to earn money</td>
</tr>
</tbody>
</table>

| 6.5.3 TYPES OF BUSINESSES | The learner will: |
| • Define types of businesses | • Plan a tour of the community to highlight businesses and how they serve the community |
|                           | • Provide props and materials to create businesses in the dramatic play area |

| 6.5.7 COSTS AND BENEFITS OF SAVING | The learner will: |
| • Identify what might be purchased by saving money | • Practice saving money |
|                                           | • Talk about why people save money |
|                                           | • Encourage children to save money to buy special items |
|                                           | • Take a field trip to a bank to learn more about saving |
### STANDARD 7.1: BASIC GEOGRAPHIC LITERACY

**BIG IDEA:** Each individual is a member of a larger community.

**ESSENTIAL QUESTIONS:** Can I identify and use maps and globes? How do I identify landmarks in my community?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
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<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Identify the following geographic tools: map, globe and photographs</td>
<td><strong>The learner will:</strong></td>
<td><strong>The adult will:</strong></td>
</tr>
<tr>
<td></td>
<td>• Identify a map as a tool to locate familiar places or objects within the classroom or school environment</td>
<td>• Practice using a map to get to the bathroom, the playground, the office, the cafeteria</td>
</tr>
<tr>
<td></td>
<td>• Identify a globe</td>
<td>• Create scavenger hunts with map-based clues</td>
</tr>
<tr>
<td></td>
<td>• Look at photos of places, regions and landforms to identify what object or place is located near some other object or place</td>
<td>• Note areas and countries of the world on the globe when possible</td>
</tr>
<tr>
<td></td>
<td>• Make maps using blocks or paper and pencil to represent familiar places such as the classroom, the school playground or home</td>
<td>• Use photos to support understanding of using landmarks to locate other places</td>
</tr>
<tr>
<td></td>
<td>• Make maps using blocks or paper and pencil to represent familiar places such as the classroom, the school playground or home</td>
<td>• Provide materials and samples for children to create maps independently</td>
</tr>
</tbody>
</table>

### 7.1.1 GEOGRAPHIC TOOLS

**STANDARD STATEMENT**

• Describe the types of homes and businesses located in the community

**EXEMPLARS (EXAMPLES)**

The learner will:

• Describe if dwelling is apartment, house, mobile home, type of business
• State information about the park, playground or other friends’ homes
• Indicate landmarks or other identifying features of areas such as stream, flagpole, church or trees

**SUPPORTIVE PRACTICES**

The adult will:

• Compare and contrast types of homes and businesses
• Talk about favorite places to visit
• Create a class map including student homes and important landmarks
• Take a walking field trip around the community to observe types of homes and businesses

### STANDARD 7.2: PHYSICAL CHARACTERISTICS OF PLACES AND REGIONS

**BIG IDEA:** Every location can be described by its physical characteristics.

**ESSENTIAL QUESTIONS:** Can I locate places based on a description? How can I create representations of places?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Locate and discuss places in the home, school and community</td>
<td><strong>The learner will:</strong></td>
<td><strong>The adult will:</strong></td>
</tr>
<tr>
<td></td>
<td>• Respond to pictures by describing the physical characteristic</td>
<td>• Take a walking field trip around the school and local community</td>
</tr>
<tr>
<td></td>
<td>• Create representations of places using drawing, clay, cardboard</td>
<td>• Provide pictures of many locations</td>
</tr>
<tr>
<td></td>
<td>• Answer questions about a trip or a place that’s been visited</td>
<td>• Display books that have picture of different places on earth and different homes</td>
</tr>
</tbody>
</table>

### 7.2.1 PHYSICAL CHARACTERISTICS

**STANDARD STATEMENT**

• Describe the types of homes and businesses located in the community

**EXEMPLARS (EXAMPLES)**

The learner will:

• Describe if dwelling is apartment, house, mobile home, type of business
• State information about the park, playground or other friends’ homes
• Indicate landmarks or other identifying features of areas such as stream, flagpole, church or trees

**SUPPORTIVE PRACTICES**

The adult will:

• Compare and contrast types of homes and businesses
• Talk about favorite places to visit
• Create a class map including student homes and important landmarks
• Take a walking field trip around the community to observe types of homes and businesses
## STANDARD 7.3: HUMAN CHARACTERISTICS OF PLACES AND REGIONS

### BIG IDEA: All humans have similarities and differences.

### ESSENTIAL QUESTIONS: How do I respect and appreciate others’ differences?

### STANDARD STATEMENT
- Describe how individuals are unique and special
- Compare and contrast customs of families in communities around the world

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Create drawings of family members and friends that show unique characteristics of individuals and describe their characteristics
  - Write “I like you because…” notes to others
  - Show understanding and respect for diverse customs and practices
  - Share information about family customs

### SUPPORTIVE PRACTICES
- The adult will:
  - Provide skin tone crayons and markers for children to use
  - Create a Student of the Week display to recognize the unique contributions and skills of each child
  - Make graphs about children’s interests, likes and dislikes
  - Include multicultural materials throughout the classroom, including books, dolls, dress-up materials and props, art materials, posters
  - Invite parents or community members to share information about their culture

## STANDARD 7.4: INTERACTIONS BETWEEN PEOPLE AND THE ENVIRONMENT

### BIG IDEA: People and the environment affect each other.

### ESSENTIAL QUESTIONS: Can I describe how changes in the environment affect me and others? Can I show that I know how to use basic technology?

### STANDARD STATEMENT
- Identify how environmental changes can impact people

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Discuss how the temperature gets warmer or colder as the seasons change
  - Explain what people do or wear in different types of seasons
  - Explain what transportation is appropriate in different kinds of weather or environment
  - Talk about the change in walking to school because of a sidewalk being replaced
  - Gather items to be recycled

### SUPPORTIVE PRACTICES
- The adult will:
  - Read books about weather both fiction and non-fiction
  - Provide seasonal clothing and props in the dramatic play area
  - Discuss various forms of transportation and how they are suitable for certain weather conditions or types of travel
  - Include various types of vehicles in the block corner such as cars, trucks, planes, trains, buses, fire engines
  - Show examples of work in the community and the changes it makes such as repaving roads or planting trees

## 7.4.1 IMPACT OF PHYSICAL SYSTEMS ON PEOPLE

### STANDARD STATEMENT
- Understand that people can use technology to complete tasks

### EXEMPLARS (EXAMPLES)
- The learner will:
  - Use a computer to create a picture or written document
  - Use a tape recorder to record a story or song

### SUPPORTIVE PRACTICES
- The adult will:
  - Allow children to use word processing or graphic programs on the computer
  - Provide technological devices for students’ independent use
**BIG IDEA:** Past and present experiences and ideas help us make sense of the world.

**ESSENTIAL QUESTIONS:** How do I use a timeline to show changes over time? What do I know about families of the past and how do they compare to families today? Can I locate information to answer questions I have?

### STANDARD 8.1: HISTORICAL ANALYSIS AND SKILLS DEVELOPMENT

#### 8.1.1 Continuity and Change Over Time

**STANDARD STATEMENT**
- Understand chronological thinking through days, weeks, months, years (calendar time)

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Create a personal timeline with photographs or drawings from birth to present
  - Practice past, present and future time with a classroom calendar and daily weather recording
  - Sequence photos of events
  - Pretend to be characters with events occurring over a period of time

**SUPPORTIVE PRACTICES**
- The adult will:
  - Use a class calendar to chart the date and weather
  - Provide opportunities for grandparents and senior citizens to visit the classroom to provide "living history"
  - Provide photographs of events for sequencing
  - Provide costumes and props for many ages and stages of development

#### 8.1.2 Historical Comprehension and Interpretation

**STANDARD STATEMENT**
- Compare children and families of today with those in the past

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Recognize clothing, houses and objects from the past or from the present

**SUPPORTIVE PRACTICES**
- The adult will:
  - Dramatize stories from history with children
  - Invite re-enactors to visit the classroom
  - Read books that are set in different periods of history

#### 8.1.3 Research

**STANDARD STATEMENT**
- Know where to go to locate information

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Use books, computers and other sources to get information about a topic

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide books, pictures and authentic objects on a theme
  - Model going to the library to get information about a question
  - Provide multimedia information about a theme
### Civic and Government

**Authority** – Right to control or direct the actions of others, legitimized by law, morality, custom or consent

**Citizen** – Member of a political society who therefore owes allegiance to and is entitled to protection by and from the government

**Community** – A group of people who share a common social, historical, regional or cultural heritage

**Conflict Resolution** – The process of attempting to solve a dispute or conflict

**Country** – The acceptable political boundaries or borders recognized throughout the world

**Decision-making Process** – An organized approach to making choices

**Government** – Institutions and procedures through which a territory and its people are ruled

**Leadership** – State or condition of one who guides or governs

**State** – A commonwealth; a nation; a civil power

### Economics

**Community Helpers** – Any group or individual who plays a role in the community such as doctors, nurses, dentists, teachers, parents, firemen, policemen, trash collectors, animal control officers

**Competition** – The rivalry among people and/or business firms for resources and/or consumers

**Consumer** – One who buys or rents goods or services and uses them

**Cost** – What is given up when a choice is made; monetary and/or non monetary

**Demand** – The different quantities of a resource, good or service that potential buyers are willing and able to purchase at various prices during a specific time period

**Goods** – Objects that can satisfy people’s wants

**Household** – The group of people living together under one roof; a group of individuals whose economic decision-making is interrelated

**Money** – A medium of exchange

**Natural Resource** – Anything found in nature that can be used to produce a product (land, water, coal)

**Price** – The amount people pay in exchange for a particular good or service

**Producer** – One who makes goods or services

**Profit** – Total revenue minus total costs

**Services** – Actions that are valued by others

**Supply** – The different quantities of a resource, good or service that potential sellers are willing and able to sell at various prices during a specific time period

**Wants** – Desires that can be satisfied by consuming goods, services or leisure activities

### Geography

**Climate** – Long-term patterns and trends in weather elements and atmospheric conditions

**Culture** – The way of life of a group of people, including customs, beliefs, arts, institutions and worldview. Culture is acquired through many means and is always changing

**Environment** – Everything in and on Earth’s surface and its atmosphere within which organisms, communities, or objects exist

**Geographic Tools** – Tools used by geographers to organize and interpret information. Tools range from the very simple (maps and globes) to the complex (Geographic Information Systems, population pyramids, satellite images, and climate graphs)

**Place** – An area with distinctive human and physical characteristics; these characteristics give it meaning and character and distinguish it from other areas

**Resource** – An aspect of the physical environment that people value and use to meet a need for fuel, food, industrial product, or something else of value

### History

**Conflict** – The opposition of persons or groups that gives rise to dramatic action. Such actions could include the use of force as in combat.

**Document** – A formal piece of writing that provides information or acts as a record of events or arrangements

**Media Sources** – Various forms of mass communication such as television, radio, magazines, newspapers and internet
Children’s future health and well-being are directly related to the development and strengthening of their gross and fine motor muscles. Children must have opportunities to experience active indoor and outdoor play in which they can use their bodies to explore the environment while acquiring muscle control, balance, coordination, strength, eye-hand coordination and other related skills. Health and safety activities must be integrated throughout the day as teachers model healthy and safe practices and promote healthy lifestyles for children.

GET UP AND MOVE!

Obesity is a growing concern even for very young children. Research indicates that even young toddlers are eating inappropriate foods with too many calories. Early childhood programs have a unique opportunity to influence children’s healthy eating and physical activity habits. Teachers need to plan adequate opportunities for children to exercise and engage in outdoor play, weather permitting. Including active movement games and songs as part of the indoor routine can also extend the amount of time children are exercising each day. Providers must carefully plan menus that offer healthy foods and limit snacks and extras, like dessert, to nutritionally-appropriate selections. Teachers who work with their program administrators and their families to introduce and sustain good healthy choices and habits influence children’s ongoing development and school success.

Standard | Page
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10.1-3: Healthy and Safe Practices | 58
10.4: Physical Activity: Gross Motor Coordination | 60
10.5: Concepts, Principles and Strategies of Movement: Fine Motor Coordination | 61
### Standard 10.1-3: Health and Safe Practices

**Big Idea:** Children need to make healthy choices, physically and nutritionally, to optimize their learning potential.

**Essential Questions:** What are things I can do to keep myself healthy and safe? Can I identify ways to help my body develop? What are some healthy foods?

#### Standard Statement
- Demonstrate basic hygiene routines independently
- Discuss the role hygiene plays in keeping us healthy
- Identify how to use medicine safely
- Describe how fundamental practices keep us healthy
- Describe the people, practices and tools that keep us healthy

#### Exemplars (Examples)
The learner will:
- Wash own hands, brush teeth, cover nose and mouth when sneezing, comb own hair
- Describe ways germs can be spread
- Identify signs of illness such as fever, headache, stomach ache, vomiting or diarrhea
- Explain how germs can make someone ill
- Identify adults who can give medicine
- Demonstrate how to say “No” to drugs
- Explain how rest, exercise and good nutrition can keep us healthy
- Identify tools and practices that doctors and dentists use to keep us healthy

#### Supportive Practices
The adult will:
- Provide opportunities in daily schedule for completion of hygiene routines
- Create learning centers that focus on healthy hygiene practices (tooth brushing, flossing teeth)
- Discuss signs of illness
- Show how germs spread
- Read literature related to good hygiene
- Read literature related to decision making, saying “No”, healthy choices or risk-taking
- Reinforce concepts with posters and verbal support
- Role-play saying no to drugs
- Provide examples of healthy meals
- Display the food pyramid
- Encourage children to rest to help their bodies stay healthy
- Identify tools that doctors and dentists use
- Discuss or role play the procedures doctors and dentists use to keep us healthy

### Standard 10.1-3.1 Fundamentals of Good Health

**Standard Statement**
- Describe function of basic body parts and organs
- Relate how healthy practices support body development and function

**Exemplars (Examples)**
The learner will:
- Name and point to body parts
- Name and point to where the organs are located in the body
- Describe the basic functions of the body organs
- Explain why we need rest, good nutrition and exercise to stay healthy
- Discuss what is meant by being and feeling healthy

**Supportive Practices**
The adult will:
- Point to and name different body parts
- Make outlines of body and add different body parts
- Read books about the body organs
- Read books about healthy practices and images
- Discuss the concepts of rest, exercise and good eating related to good health
- Encourage children to engage in healthy practices

CONTINUED...
## STANDARD 10.1-3: HEALTH AND SAFE PRACTICES

### 10.1-3.3 SAFE PRACTICES

#### STANDARD STATEMENT
- Demonstrate and describe the importance of rules to ensure safety
- Explain how to modify behavior to assure safe practice
- Describe the people, practices and tools that keep us safe

#### EXEMPLARS (EXAMPLES)

<table>
<thead>
<tr>
<th>The learner will:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate fire safety practices and emergency procedures</td>
</tr>
<tr>
<td>Demonstrate safe ways to answer the phone</td>
</tr>
<tr>
<td>Explain how to be safe when walking, riding bicycles, and riding in vehicles</td>
</tr>
<tr>
<td>Demonstrate playground rules</td>
</tr>
<tr>
<td>Describe things in the environment that can be harmful (loud noise, tobacco, smoke, pollution, temperature, insects)</td>
</tr>
<tr>
<td>Describe ways to protect oneself from harmful factors in the environment</td>
</tr>
<tr>
<td>Clean up areas for safety</td>
</tr>
<tr>
<td>Follow directions during fire drills</td>
</tr>
<tr>
<td>Be aware of others on playground</td>
</tr>
<tr>
<td>Cross street at intersection</td>
</tr>
<tr>
<td>Explain the role of fire fighters, police, and ambulance driver</td>
</tr>
<tr>
<td>Identify the tools that fire fighters, police, ambulance drivers use to keep us safe</td>
</tr>
</tbody>
</table>

#### SUPPORTIVE PRACTICES

<table>
<thead>
<tr>
<th>The adult will:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talk with children about harmful substances and objects</td>
</tr>
<tr>
<td>Talk about and practice crossing street</td>
</tr>
<tr>
<td>Practice making “911” calls</td>
</tr>
<tr>
<td>Demonstrate and practice “STOP DROP ROLL” and emergency procedures</td>
</tr>
<tr>
<td>Engage learners in interactive activities to first identify the harmful factors and then find ways of protection</td>
</tr>
<tr>
<td>Encourage the use of sunscreen</td>
</tr>
<tr>
<td>Provide positive reinforcement while children put away toys</td>
</tr>
<tr>
<td>Provide reminders and support about safe practices in the classroom and on the playground</td>
</tr>
<tr>
<td>Read books about being safe</td>
</tr>
<tr>
<td>Arrange for field trips and visitors to demonstrate their jobs</td>
</tr>
<tr>
<td>Read books about safety workers</td>
</tr>
</tbody>
</table>

### 10.1-3.4 NUTRITION

#### STANDARD STATEMENT
- Identify how specific foods keep us healthy
- Identify the foods to include in specific food groups

#### EXEMPLARS (EXAMPLES)

<table>
<thead>
<tr>
<th>The learner will:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classify food as nutritious or not nutritious</td>
</tr>
<tr>
<td>Identify water as an important resource for keeping the body healthy</td>
</tr>
<tr>
<td>Identify food groups</td>
</tr>
<tr>
<td>Identify foods that belong together in a specific food group</td>
</tr>
<tr>
<td>Design a meal using foods from several groups</td>
</tr>
</tbody>
</table>

#### SUPPORTIVE PRACTICES

<table>
<thead>
<tr>
<th>The adult will:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discuss nutritious and non-nutritious foods</td>
</tr>
<tr>
<td>Discuss how food supports healthy growth and development</td>
</tr>
<tr>
<td>Read books about healthy foods</td>
</tr>
<tr>
<td>Use “Color Me Healthy” program</td>
</tr>
<tr>
<td>Model drinking water</td>
</tr>
<tr>
<td>Display food pyramid</td>
</tr>
<tr>
<td>Provide cooking and food experiences</td>
</tr>
<tr>
<td>Provide materials for children to play healthy meals using foods from several groups</td>
</tr>
</tbody>
</table>
STANDARD 10.4: PHYSICAL ACTIVITY: GROSS MOTOR COORDINATION

**BIG IDEA:** Children gain control over their bodies and body movements through active experiences and exploration.

**ESSENTIAL QUESTIONS:** Can I regularly demonstrate a variety of large motor movements? Can I show coordination of muscles as I engage in play?

<table>
<thead>
<tr>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
</table>
| 10.4.1 CONTROL AND COORDINATION | • Engage in independent large motor skills with control and coordination  
• Demonstrate coordination of purposeful body movements  
• Start and stop with control  
• Perform movement skills in team or group games | The learner will:  
• Hit a stationary target with an overhand throw  
• Catch a ball with increasing accuracy  
• Pull or push wheeled toys  
• Ride and steer a toy using feet to pedal  
• Use outdoor gross motor equipment such as swings, climbers and tunnels safely and appropriately  
• Reach around or over to retrieve an object  
• Move body to represent something else  
• Begin running without difficulty and stop running when intended  
• Participate in group games like Follow the Leader, tag or kickball to use skills | The adult will:  
• Provide stationary marked targets  
• Play catch games with children  
• Include toys and equipment that encourage active play  
• Provide areas on the playground for riding toys to be used safely  
• Ensure riders wear helmets  
• Ask children to create numbers and shapes with their bodies  
• Ask children to retrieve objects that require coordinating muscles  
• Provide time and space for children to run  
• Include group and team games regularly |

| 10.4.3 BALANCE AND STRENGTH | • Exhibit balance, strength, stamina and agility while engaged in active play  
• Use mastered gross motor movements to learn new skills and engage in new activities | The learner will:  
• Walk on a balance beam forward and backward  
• Walk up and down stairs using alternating feet without help  
• Gallop, run, hop, jump, start and stop with ease  
• Jump forward  
• Jump on one foot at a time  
• Participate in group games  
• Kick a ball with increasing accuracy  
• Use throwing, catching, kicking and running in new games and when encountering new challenges | The adult will:  
• Provide opportunities to participate in a variety of motor activities including sway, stretch, pull, push, bend, squat  
• Provide many practice opportunities  
• Model new skills  
• Introduce games such as kickball |
HEALTH, WELLNESS AND PHYSICAL DEVELOPMENT: LEARNING ABOUT MY BODY

STANDARD 10.5: CONCEPTS, PRINCIPLES AND STRATEGIES OF MOVEMENT: FINE MOTOR DEVELOPMENT

BIG IDEA: Fine motor practice helps children develop eye-hand coordination, strength and controlled use of tools.

ESSENTIAL QUESTIONS: How do I use my hands to develop self-help skills? How do I develop eye-hand coordination? How well do I control my fine muscle movements?

STANDARD STATEMENT
Use dexterity to manipulate objects
Demonstrate control and strength
Complete manual self help skills independently

EXEMPLARS (EXAMPLES)
The learner will:
Use scissors to cut on a line turning paper as needed
Manipulate dough and clay by squeezing, pounding, rolling into recognizable shapes, objects and letters
Manipulate pegs into a pegboard
Tear paper with skill
String beads, noodles, or cereal onto a string in a peg board
Trace forms or templates
Open and close markers
Open and close glue bottles
Trace a line or circle
Pound pegs
Complete self help skills (zipping, snapping, buttoning, tying)
Engage in clapping games like Miss Mary Mack or Say, Say My Playmate
Complete multiple piece puzzles

SUPPORTIVE PRACTICES
The adult will:
Encourage accuracy when cutting and tracing
Provide paper for drawing and tearing
Provide opportunities and materials to play with playdough
Provide beads and strings to make necklaces
Provide pegs, pegboards and hammers
Ensure that children are closing markers and glue bottles completely
Provide opportunities to use pencils, crayons and scissors
Provide opportunities to practice zipping, buttoning, snapping
Teach hand and clapping games
Provide a variety of multi-piece puzzles

10.5.1 STRENGTH, COORDINATION AND MUSCLE CONTROL

STANDARD STATEMENT
Copy structure from a model or plan using a variety of block types and sizes
Measure amounts of sand or water using tools
Begin to write on lined paper

EXEMPLARS (EXAMPLES)
The learner will:
Use a variety of blocks to build a recognizable structure following a model or a plan
Use measuring tools to move sand and liquid
Use lined paper during daily writing experiences

SUPPORTIVE PRACTICES
The adult will:
Provide different types and sizes of blocks
Provide sensory experiences (water and sand play) where children can pour, fill and empty
Provide measuring cups and spoons
Model writing letters and numbers appropriately on lined paper

CONTINUED...
STANDARD 10.5.3 USE OF TOOLS

**STANDARD STATEMENT**
- Demonstrate control with writing and drawing implements to draw pictures, letters and words
- Use tools with control and skill to perform basic tasks
- Choose appropriate tool for a specific task

**EXEMPLARS (EXAMPLES)**
The learner will:
- Hold pencils, crayons, and markers in a functional grasp (pincer grasp)
- Use glue sticks or liquid glue to paste various items
- Use paint brushes to make pictures
- Use fork, spoon accurately
- Attempt to use knife correctly
- Use watering can, dustpan and brush and empty pencil sharpener into garbage can to complete classroom responsibilities

**SUPPORTIVE PRACTICES**
The adult will:
- Provide a variety of art and writing materials and experiences that offer manipulative practice (finger paint, play dough, paint with brushes, crayons, markers, pencils and paper, collage materials and safety scissors)
- Provide opportunities for children to select and use tools and items to complete classroom responsibilities

**HEALTH, WELLNESS & PHYSICAL DEVELOPMENT GLOSSARY**

Agility - A component of physical fitness that relates to the ability to rapidly change the position of the entire body in space with speed and accuracy

Balance - A skill-related component of physical fitness that relates to the maintenance of equilibrium while stationary or moving

Coordination - A skill-related component of physical fitness that relates to the ability to use the senses together with body parts in performing motor tasks smoothly and accurately

Developmental Differences - Learners are at different levels in their motor, cognitive, emotional, social and physical development. The learners’ developmental status will affect their ability to learn or improve

Developmentally Appropriate - Motor skill development and change that occur in an orderly, sequential fashion and are age and experience related

Directions - Forward, backward, left, right, up, down

Flexibility - A health-related component of physical fitness that relates to the range of motion available at a joint

Food Guide Pyramid - A visual tool used to help people plan healthy diets according to the Dietary Guidelines for America

Health - A state of complete physical, mental and social well-being; not merely the absence of disease and infirmity

Health Education - Planned, sequential PK-12 program of curricula and instruction that helps students develop knowledge, attitudes and skills related to the physical, mental, emotional and social dimensions of health

Locomotor Movement - Movements producing physical displacement of the body, usually identified by weight transference via the feet. Basic locomotor steps are the walk, run, hop and jump as well as the irregular rhythmic combinations of the skip, slide and gallop

Motor Skills - Non-fitness abilities that improve with practice and relate to one’s ability to perform specific sports and other motor tasks (tennis serve, shooting a basketball)

Movement Skills - Proficiency in performing nonlocomotor, locomotor and manipulative movements that are the foundation for participation in physical activities

Nonlocomotor Movement - Movements that do not produce physical displacement of the body

Physical Activity - Bodily movement that is produced by the contraction of skeletal muscle and which substantially increases energy expenditure

Physical Education - Planned, sequential, movement-based program of curricula and instruction that helps students develop knowledge, attitudes, motor skills, self-management skills and confidence needed to adapt and maintain a physically active life

Physical Fitness - A set of attributes that people have or achieve and that relate to their ability to perform physical activity. Generally accepted to consist of health-related fitness and skill-related fitness

Safety Education - Planned, sequential program of curricula and instruction that helps students develop the knowledge, attitudes and confidence needed to protect them from injury
Communication occurs in many different ways. It is a way to share one’s ideas and understand the ideas of others. Reading involves the use of pictures, symbols and text to gain information and derive meaning, and writing is used for a variety of purposes. Children should be exposed to a variety books to acquire new information and for personal fulfillment. Children apply a wide range of strategies to comprehend, interpret, evaluate and appreciate text. Children draw meaning from their prior knowledge and experience, their interactions with others, their knowledge of word meaning and their word identification strategies. Children vary their use of the spoken and written language to communicate effectively with others. One of the first building blocks of reading is phonemic awareness; this is one of the best predictors of early reading achievement. Children should be developing this awareness in the early years by listening to rhyming stories and songs and engaging in word play activities.
**STANDARD 1.1: LEARNING TO READ INDEPENDENTLY**

**BIG IDEA:** Emerging reading involves the use of pictures, symbols and text to gain information and derive meaning.

**ESSENTIAL QUESTIONS:** How do I select text to learn about specific information? Do I read for a variety of purposes? How do I recognize new words in print? How can I build vocabulary? How do I read to learn and understand information?

<table>
<thead>
<tr>
<th>1.1 PURPOSES FOR READING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
</tr>
<tr>
<td>• Read text for a variety of purposes during work and playtime</td>
</tr>
<tr>
<td>• Choose text based on identified need and purposes</td>
</tr>
<tr>
<td>• Identify different purposes for text</td>
</tr>
<tr>
<td><strong>EXEMPLARS (EXAMPLES)</strong></td>
</tr>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>• Select books, tapes and poems on the basis of personal choice/interest or teacher-criteria</td>
</tr>
<tr>
<td>• Use magazines, catalogs, circulars, mail, books to locate words and/or sentences or to just peruse</td>
</tr>
<tr>
<td>• Explain that text has different purposes such as books, signs, lists, charts or menus</td>
</tr>
<tr>
<td><strong>SUPPORTIVE PRACTICES</strong></td>
</tr>
<tr>
<td>The adult will:</td>
</tr>
<tr>
<td>• Use big books, messages, charts, letters, notes and signs to share information</td>
</tr>
<tr>
<td>• Provide daily opportunities for learners to look at and read books, daily messages, charts, posters, and magazines</td>
</tr>
<tr>
<td>• Read and reread quality literature daily</td>
</tr>
<tr>
<td>• Assist learners in reading classroom labels, signs and other environmental and classroom print</td>
</tr>
<tr>
<td>• Provide learning centers and classroom library where learners can independently interact with quality literature books</td>
</tr>
<tr>
<td>• Provide opportunities for learners to practice how print works</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.1.2 WORD RECOGNITION SKILLS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
</tr>
<tr>
<td>• Identify upper and lower case letters</td>
</tr>
<tr>
<td>• Associate the names of letters with their shapes and sounds</td>
</tr>
<tr>
<td>• Create words and letters</td>
</tr>
<tr>
<td>• Identify and produce a variety of patterned words</td>
</tr>
<tr>
<td>• Segment and blend sounds into words</td>
</tr>
<tr>
<td>• Identify basic sight words</td>
</tr>
<tr>
<td>• Decode and encode words in context</td>
</tr>
<tr>
<td><strong>EXEMPLARS (EXAMPLES)</strong></td>
</tr>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>• Identify letters, both upper and lower case and make letter and sound correspondence</td>
</tr>
<tr>
<td>• Write dictated letters and words</td>
</tr>
<tr>
<td>• Substitute sounds to form new words in word families or follow an alliterative pattern</td>
</tr>
<tr>
<td>• Isolate initial consonant sounds in single syllable words</td>
</tr>
<tr>
<td>• Segment individual phonemes in a single syllable word</td>
</tr>
<tr>
<td>• Blend letters and sounds</td>
</tr>
<tr>
<td>• Identify own name and names of class</td>
</tr>
<tr>
<td>• Read basic sight words from word wall</td>
</tr>
<tr>
<td>• Use decoding and encoding skills to read or write words in context</td>
</tr>
<tr>
<td><strong>SUPPORTIVE PRACTICES</strong></td>
</tr>
<tr>
<td>The adult will:</td>
</tr>
<tr>
<td>• Create learning centers to reinforce letter and sound identification skills</td>
</tr>
<tr>
<td>• Encourage children to write letters and sounds that they hear</td>
</tr>
<tr>
<td>• Model segmenting learners’ names and other words</td>
</tr>
<tr>
<td>• Provide practice with blending sounds daily</td>
</tr>
<tr>
<td>• Point out words from vocabulary, calendar, lunch menu, names, word wall throughout the day</td>
</tr>
<tr>
<td>• Support encoding and decoding with scaffolding</td>
</tr>
</tbody>
</table>

CONTINUED...
## Standard 1.1: Learning to Read Independently

### Standard Statement
- Describe pictures in detail using sentences
- Discuss unknown words and word meanings
- Recognize vocabulary words in print
- Use new vocabulary in spoken and written language

### Exemplars (Examples)

**The learner will:**
- Name, describe and talk about new concepts
- Request further information about a concept by using the correct name, label or vocabulary word
- Engage in conversation with a variety of partners
- Identify designated words in a variety of text, such as word walls, messages, poems, or room labels
- Practice reading words on word walls
- Use new vocabulary to ask questions
- Use new vocabulary in the context of dramatic play, daily routines and classroom conversations
- Use new vocabulary during daily writing, talking or reading

### Supportive Practices

**The adult will:**
- Model rich spoken language
- Provide explicit instruction of key vocabulary words in context
- Create a word wall of sight words and frequently used words
- Provide opportunities for learners to read and identify common reading words within a variety of texts
- Provide opportunities for learners to explore and apply new sight words during shared reading, small group instruction, independent reading and learning centers
- Provide exposure to new vocabulary in various contexts such as read alouds, class discussions, spoken listening activities and computers
- Encourage and support learners as they expand their use of language during play and peer interactions and conversations

### Standard 1.1.4: Comprehension and Interpretation

### Standard Statement
- Respond appropriately to directions, stories and conversations
- Describe illustrations showing action
- Retell and summarize a story
- Restate main ideas and important details from a story
- Draw connections between story events, personal experiences and other books
- Answer "why” questions

### Exemplars (Examples)

**The learner will:**
- Follow directions, answer a question about a story or engage in a conversation
- Explain action that is occurring in an illustration
- Retell beginning, middle and ending story events
- Relate how personal experiences or other stories connect to a new book
- Identify basic facts and main ideas in a text
- Use basic facts to answer questions

### Supportive Practices

**The adult will:**
- Provide opportunities for retelling
- Provide a variety of books for selection
- Ask probing questions
- Model connections between story events and background knowledge of students
- Model connections among books

### Standard 1.1.3: Vocabulary Development

### Standard 1.1.5: Fluency
## STANDARD 1.2: READING, ANALYZING AND INTERPRETING TEXT

### BIG IDEA:
Children understand and respond to a wide variety of text.

### ESSENTIAL QUESTIONS:
How do I identify the parts of books and stories? How do I use a variety of texts to learn new information? How do I make predictions about a variety of texts?

### 1.2.1 TEXT ANALYSIS AND EVALUATION

<table>
<thead>
<tr>
<th><strong>STANDARD STATEMENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify common features of text</td>
</tr>
<tr>
<td>Compare and contrast characters</td>
</tr>
<tr>
<td>Identify setting of a story</td>
</tr>
<tr>
<td>Identify problem and solution of a story</td>
</tr>
<tr>
<td>Compare new and familiar books and stories</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EXEMPLARS (EXAMPLES)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>Identify title, author and illustrator</td>
</tr>
<tr>
<td>Explain how characters are the same and different in a story</td>
</tr>
<tr>
<td>Draw the setting of a story</td>
</tr>
<tr>
<td>Identify the problem in a story and its solution</td>
</tr>
<tr>
<td>Discuss the similarities amongst books</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The adult will:</td>
</tr>
<tr>
<td>Model appropriate book handling skills</td>
</tr>
<tr>
<td>Model and reinforce correct tracking</td>
</tr>
<tr>
<td>Encourage children to identify beginning, middle and end of a story</td>
</tr>
<tr>
<td>Create lists of types of text</td>
</tr>
<tr>
<td>Discuss types of text and share examples of each</td>
</tr>
<tr>
<td>Provide a variety of texts in the classroom library</td>
</tr>
</tbody>
</table>

### 1.2.2 TEXT ORGANIZATION

<table>
<thead>
<tr>
<th><strong>STANDARD STATEMENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop book/print awareness</td>
</tr>
<tr>
<td>Track consistently and correctly when reading or following along</td>
</tr>
<tr>
<td>Identify beginning, middle and end of a story or book</td>
</tr>
<tr>
<td>Identify the various types of text and their purpose</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EXEMPLARS (EXAMPLES)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>Turn pages from left to right when reading, read words and sentences from left to right, read from top to bottom and use return sweep</td>
</tr>
<tr>
<td>Illustrate, write or tell what happens at the beginning, middle or end of a story</td>
</tr>
<tr>
<td>Distinguish between different forms of text such as lists, letters, poems, charts, illustrations and the functions they serve</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The adult will:</td>
</tr>
<tr>
<td>Model and provide examples of facts</td>
</tr>
<tr>
<td>Model identifying facts in informational text</td>
</tr>
<tr>
<td>Provide a variety of opportunities for children to determine facts from text</td>
</tr>
<tr>
<td>Provide ample time for exploration of a variety of texts during center time</td>
</tr>
</tbody>
</table>

### 1.2.3 FACT AND OPINION

<table>
<thead>
<tr>
<th><strong>STANDARD STATEMENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify facts in a selection</td>
</tr>
<tr>
<td>Determine important facts from informational text</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EXEMPLARS (EXAMPLES)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>Identify pieces of a selection that are fact rather than fantasy or opinion</td>
</tr>
<tr>
<td>Retell some important facts from a read text or from information heard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
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<td>The adult will:</td>
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<td>Model identifying facts in informational text</td>
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</tbody>
</table>

### 1.2.5 INFERENCE

<table>
<thead>
<tr>
<th><strong>STANDARD STATEMENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Make predictions about story content using prior knowledge, title, illustrations and story sequence</td>
</tr>
<tr>
<td>Explain whether or not predictions are confirmed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>EXEMPLARS (EXAMPLES)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>Make a prediction about story content based on background knowledge and personal experiences</td>
</tr>
<tr>
<td>Verify predictions made and give simple explanations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SUPPORTIVE PRACTICES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The adult will:</td>
</tr>
<tr>
<td>Provide opportunities for predicting and relating personal experiences</td>
</tr>
<tr>
<td>Read a variety of texts for children to make predictions and relationships</td>
</tr>
<tr>
<td>Ask open ended questions about text to encourage inference and prediction</td>
</tr>
</tbody>
</table>
### BIG IDEA: Literature consists of a variety of elements to convey meaning.

#### ESSENTIAL QUESTIONS:
- How do I create different forms of text?
- How do I identify literary elements and devices?

<table>
<thead>
<tr>
<th>STANDARD 1.3: READING, ANALYZING AND INTERPRETING LITERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.3.1 ANALYSIS AND EVALUATION</strong></td>
</tr>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
</tr>
<tr>
<td>• Compare and contrast books on a similar topic or by the same author</td>
</tr>
<tr>
<td><strong>EXEMPLARY EXAMPLES</strong></td>
</tr>
<tr>
<td>The learner will:</td>
</tr>
<tr>
<td>• Find similarities and differences among books on the same topic or by the same author</td>
</tr>
<tr>
<td><strong>SUPPORTIVE PRACTICES</strong></td>
</tr>
<tr>
<td>The adult will:</td>
</tr>
<tr>
<td>• Provide many opportunities for learners to read, listen to and discuss texts from a variety of genres and types as well as representing diverse cultures and ethnicities</td>
</tr>
<tr>
<td>• Create graphs and charts showing similarities and differences</td>
</tr>
</tbody>
</table>

| **1.3.2 LITERARY GENRES**                                  |
| **STANDARD STATEMENT**                                    |
| • Create own examples of poetry, fiction and nonfiction with teacher support |
| **EXEMPLARY EXAMPLES**                                    |
| The learner will:                                           |
| • Attempt to create the genre of literature modeled in the classroom |
| **SUPPORTIVE PRACTICES**                                   |
| The adult will:                                             |
| • Expose children to a variety of genres and attach names to them |
| • Provide support and models for children when creating their own examples |

| **1.3.3 LITERARY ELEMENTS**                                |
| **STANDARD STATEMENT**                                    |
| • Describe the people, places and things in a story         |
| • Respond to questions and/or initiate conversation about main characters, setting, events or plot of a story |
| **EXEMPLARY EXAMPLES**                                    |
| The learner will:                                           |
| • Draw, write or tell about the people, places and things in a story |
| • Answer questions related to a text or engage in a conversation about components of the story |
| **SUPPORTIVE PRACTICES**                                   |
| The adult will:                                             |
| • Consistently identify the elements of text, such as the people, places and things |
| • Ask open-ended questions about the elements of a story    |

| **1.3.4 LITERARY DEVICES**                                 |
| **STANDARD STATEMENT**                                    |
| • Recognize rhyming patterns and alliterations when text is read aloud |
| • Recognize different tones of stories                    |
| **EXEMPLARY EXAMPLES**                                    |
| The learner will:                                           |
| • Identify rhyming patterns and alliterations               |
| • Begin to create rhyming patterns or alliteration examples |
| • Identify if the tone of a story is happy, sad, silly or frustrated |
| **SUPPORTIVE PRACTICES**                                   |
| The adult will:                                             |
| • Point out rhyming patterns and examples of alliteration while reading text |
| • Provide opportunities for learners to identify rhyming patterns and alliterations in text |
| • Discuss the tone of a story |
| • Discuss how the story makes reader feel                   |
# Standard 1.4: Types of Writing

**Big Idea:** Children write for different purposes and audiences.

**Essential Questions:** How do I write for a variety of purposes and audiences?

<table>
<thead>
<tr>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4.1 Narrative</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>Create a simple story using age appropriate writing skills</td>
<td>Write a story that includes character, simple plot or setting. Use drawings and pictures to represent ideas. Participate in group and shared writing experiences.</td>
<td>Provide opportunities throughout the school day for learners to engage in shared and interactive writing. Model the writing process. Brainstorm ideas for characters, setting, plot for stories to be written. Provide opportunities and materials for learners to write throughout the day.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4.2 Informational</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>Communicate information through writing</td>
<td>Write during play for a variety of purposes such as stories, lists, cards, or letters. Write sentences about a non-fiction topic.</td>
<td>Create charts about children’s ideas and topics. Display informational text in various locations in the classroom, such as bulletin boards, children’s sample display, and signs or labels.</td>
</tr>
</tbody>
</table>

# Standard 1.5: Quality of Writing

**Big Idea:** Writing conveys the author’s ideas about a topic.

**Essential Questions:** How do I use the conventions of writing to convey meaning? How do I review and edit my work?

<table>
<thead>
<tr>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5.1 Focus</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>Write about one specific topic</td>
<td>Write ideas or sentences about a specific topic that includes people, object, experience or event.</td>
<td>Provide writing time through the day. Provide learners with opportunities to converse with classmates in group and paired settings about the topic.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5.2 Content</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>Generate ideas and topics for writing. Include details about topic when writing. Match illustration to writing.</td>
<td>Brainstorm ideas for writing topics. Share ideas with classmates. Complete story starters. Write stories with detail. Ask questions to encourage the use of more detail in writing.</td>
<td>Provide learners with story starter ideas and model use. Provide opportunities for learners to ask questions about writing. Provide materials in learning centers for exploration of writing. Provide word walls and other pertinent environmental print and assistive materials for learners to use when writing. Ask questions to encourage the use of more detail in writing. Provide opportunities throughout the school day for learners to generate ideas for writing.</td>
</tr>
</tbody>
</table>
## STANDARD 1.5: QUALITY OF WRITING

### 1.5.3 ORGANIZATION

**STANDARD STATEMENT**
- Write words or simple sentences in a logical order

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Write thoughts or words in logical sequence
  - Begin to use graphic organizers to assist in organizing printed thoughts

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide learners with opportunities to sequence events or pictures
  - Model, demonstrate, encourage and support learners as they begin to organize thoughts and words
  - Provide encouragement and support writing efforts
  - Model the use of graphic organizers

### 1.5.5 EDITING

**STANDARD STATEMENT**
- Examine beginning writing for errors with adult assistance
- Write pieces that reflect prior adult edits

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Begin to ask and answer questions about conventions of writing
  - Share writing with classmates for feedback
  - Use previous feedback in new writing

**SUPPORTIVE PRACTICES**
- The adult will:
  - Support learners in writing attempts
  - Model the editing and revising process at appropriate level
  - Provide opportunities for learners to share with one or more than one classmate in a variety of settings

### 1.5.6 CONVENTION

**STANDARD STATEMENT**
- Use a variety of writing tools and surfaces
- Demonstrate conventional penmanship
- Use correct spacing with scaffolding
- Include some punctuation with support

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Use pens, markers, pencils, crayons, paints, chalk, computer or other technology during work and play
  - Trace copy or write upper case and lower case letters of the alphabet attending to the form proper spacing of the letters
  - Begin to use appropriate spacing between letters, in height of letters, and position of letters
  - Begin to use period and question mark correctly with assistance

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide a variety of materials for use in tracing, copying, forming, writing letters
  - Model correct formation of letters in group settings
  - Provide models of appropriate letter writing in centers and in classroom environment
  - Purposely point out letter formations during group and individual lesson times

## STANDARD 1.6: SPEAKING AND LISTENING

**BIG IDEA:** Speaking and listening are connected skills that build the foundation for literacy and communication.

**ESSENTIAL QUESTION:** How do I listen for meaning? How do I appropriately express my thoughts?

### 1.6.1 LISTENING SKILLS

**STANDARD STATEMENT**
- Initiate and respond appropriately to conversations and discussions
- Ask a series of questions to gather additional information
- Follow three-step directions

**EXEMPLARS (EXAMPLES)**
- The learner will:
  - Demonstrates appropriate level of receptive language through appropriate responses to group conversations or discussions
  - Ask follow up questions to initial question to get more detail
  - Follow two and three step directions such as "Put away your book, get your jacket and stand by the door" on a regular basis without assistance

**SUPPORTIVE PRACTICES**
- The adult will:
  - Provide opportunities and oral language experiences on a daily basis
  - Ask questions in group and individual settings
  - Model appropriate answers to given questions
  - Provide opportunities for learners to ask questions for clarification or inquiry
  - Provide learners with many opportunities to speak throughout the day
### STANDARD 1.6: SPEAKING AND LISTENING

#### 1.6.2 SPEAKING SKILLS

<table>
<thead>
<tr>
<th>Standard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use verbal language supported by nonverbal gestures to communicate for a variety of purposes</td>
</tr>
<tr>
<td>Practice speaking a few words in a language other than native language</td>
</tr>
<tr>
<td>Relate meaning in native language to words in new language</td>
</tr>
</tbody>
</table>

#### 1.6.3 DISCUSSION

<table>
<thead>
<tr>
<th>Standard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicate using details when relating experiences and retellings of stories</td>
</tr>
<tr>
<td>Apply listening and speaking strategies during discussions of stories and events</td>
</tr>
<tr>
<td>Pose questions, listen to the ideas of others, and contribute own information in group discussion partner discussion</td>
</tr>
</tbody>
</table>

#### 1.6.4 PRESENTATION

<table>
<thead>
<tr>
<th>Standard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deliver brief oral presentations about stories, familiar experiences and interests</td>
</tr>
</tbody>
</table>

#### 1.7.1 COMMUNICATING IN MORE THAN ONE LANGUAGE

<table>
<thead>
<tr>
<th>Standard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use verbal language supported by nonverbal gestures to communicate for a variety of purposes</td>
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<td>Practice speaking a few words in a language other than native language</td>
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<tr>
<td>Relate meaning in native language to words in new language</td>
</tr>
</tbody>
</table>

### STANDARD 1.7: CHARACTERISTICS AND FUNCTIONS OF THE ENGLISH LANGUAGE

#### Big Idea: Information can be shared in many ways.

#### Essential Question: How do I communicate in more than one way?

<table>
<thead>
<tr>
<th>Standard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate in a verbal and nonverbal manner the answer to posed questions</td>
</tr>
<tr>
<td>Attempt to speak a foreign language heard</td>
</tr>
<tr>
<td>Connect the meaning of a word in foreign language with native language</td>
</tr>
<tr>
<td>Share ways communication can occur including various languages, technological devices, and gestures</td>
</tr>
</tbody>
</table>

#### Supportive Practices

<table>
<thead>
<tr>
<th>Adult Will</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide opportunities for learners to communicate with others in verbal and nonverbal ways</td>
</tr>
<tr>
<td>Provide opportunities and experiences for learners to know others communicate in languages foreign to them</td>
</tr>
</tbody>
</table>
# STANDARD 1.8: RESEARCH

**BIG IDEA:** Information to answer questions is available through a variety of resources.

**ESSENTIAL QUESTION:** How do I find the answers to questions that interest me? How can I share learned information with others?

<table>
<thead>
<tr>
<th>1.8.1 INQUIRY BASED PROCESS</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
<td>- Ask questions on a variety of topics</td>
<td>- Ask questions about topics of personal interest or class-generated topics</td>
<td>The adult will: - Provide opportunities for learners to research topics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.8.2 LOCATION OF INFORMATION AND CITING SOURCES</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
<td>- Locate information on identified topics with teacher guidance</td>
<td>- Begin to search for information on specific topics using research materials with assistance</td>
<td>The adult will: - Provide opportunities for seeking information from research sources with assistance from adult or older children - Provide access to books and materials for use in researching</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.8.3 ORGANIZATION AND PRODUCTION OF FINAL PRODUCT</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
<td>- Produce a project based on research and explain with assistance</td>
<td>- Create a simple product based on research findings - Share information learned through research with teacher support</td>
<td>The adult will: - Provide opportunities to create projects using research materials with assistance - Provide opportunities for learners to share their products</td>
</tr>
</tbody>
</table>

# STANDARD 1.9: INFORMATION, COMMUNICATION AND TECHNOLOGY LITERACY

**BIG IDEA:** Technology provides access to new information.

**ESSENTIAL QUESTIONS:** How do I use technology to gain new information?

<table>
<thead>
<tr>
<th>1.9.1 MEDIA AND TECHNOLOGY RESOURCES</th>
<th>STANDARD STATEMENT</th>
<th>EXEMPLARS (EXAMPLES)</th>
<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD STATEMENT</strong></td>
<td>- Use technology to gain information - Use age appropriate computer program with little or no assistance</td>
<td>- Use technological devices such as a computer to gather information - Use appropriate interactive software programs - Use a new program with little or no assistance - Choose a topic or specific computer program to practice related skills</td>
<td>The adult will: - Continue to introduce new technology during group time and embed into learning centers - Continue to model the appropriate care of technological devices - Select software and internet websites that matches children’s levels - Provide classroom materials that promote use of technology - Provide opportunities and support for learners as they use new computer programs and skills</td>
</tr>
</tbody>
</table>
Alliteration – The repetition of initial consonant sounds in neighboring words.  
Antonym – A word that is the opposite of another word.  
Characterization – The method an author uses to reveal characters and their various personalities.  
Compare – Place together characters, situations or ideas to show common or differing features in literary selections.  
Context Clues – Information from the reading that identifies a word or group of words.  
Concepts of Print – Print goes left to right; one to one match with voice to read, concept of first and last; concept of letter, word, sentence, space, letter order in words is important; different punctuations have meaning.  
Conventions of Language – Mechanics, usage and sentence completeness.  
Decoding – Analyzing text in order to identify and understand individual words.  
Echo Reading – Reading of a text where an adult or an experienced reader reads a line of text and student repeats the line.  
Emergent Literacy – One stage of literacy development; reading and writing behaviors that precede and develop into convention and literacy.  
Expressive Language – Being able to convey messages using words.  
Evaluate – Examine and judge carefully.  
Fine Motor – Demonstrate increased control of hand and eye coordination; using hands and fingers such as in writing, painting, drawing, modeling clay, pinching clothespins.  
Fluency – The clear, easy, written or spoken expression of ideas. Freedom from word-identification problems which might hinder comprehension in silent reading or the expression of ideas in oral reading.  
Genre – A category used to classify literary works, usually by form, technique or content (prose, poetry).  
Guided Reading – Teachers work with students at their instructional level to guide them in using context, visual and structural cues.  
Homophone – One of two or more words pronounced alike, but different in spelling or meaning (hair/hare; road/rode).  
Language Experience – Reading own writing; teacher takes dictation from students or students do own writing. Use student’s own words as reading material; an effective way to encourage self-expression and build awareness of the connections between oral and written language.  
Learning Styles – Visual (learn through seeing) needs to see the teacher's body language and facial expression to fully understand the content of the lesson.  
• Auditory (learn through listening) learns through lectures, discussion and listening and needs to talk things through.  
• Tactile/kinesthetic (learn through moving and touching) learns best through a hands-on approach actively exploring the physical world around them.  
Literary/Story Elements – The essential techniques used in literature (characterization, setting, plot, theme, problem, solution).  
Literary Devices – Tools used by the author to enliven and provide voice to the writing (dialogue, alliteration).  
Multiple Intelligences – Howard Gardner’s theory of intelligences.  
• Visual–spatial (ability to perceive the visual)  
• Verbal–linguistic (ability to use words and language)  
• Logical/mathematical (ability to use reason, logic and numbers)  
• Bodily/kinesthetic (ability to control body movements and handle objects skillfully)  
Musical/rhythmic (ability to produce/appreciate music, sound, rhythm)  
Interpersonal (ability to relate and understand others; other people’s feelings)  
Intrapersonal (ability to self-reflect and be aware of one’s inner state of being; self-awareness)  
Naturalist (ability to recognize, categorize and draw upon certain features of the environment).  
Narrative – A story, actual or fictional, expressed orally or in writing.  
Onset – A sound in word that comes before the vowel.  
Phonemic Awareness – Ability to hear and identify parts of spoken language and auditorily divide into phonemes.  
Phoneme – A sound unit of speech.  
Phonics – A way of teaching reading that stresses sound symbol relationship; refers to the relationship between the letters and letter sounds of a language.  
Phonological Awareness – A broad term that includes phonemic awareness. In addition to phonemes, phonological awareness refers to larger spoken units such as rhymes, words, syllables and onsets and rimes.  
Picture Walk – A pre-reading strategy that is an examination of the text looking at pictures to gain an understanding of the story and to illicit story related language in advance of reading the story.  
Point of View – The way in which an author reveals characters, events and ideas in telling a story; the vantage point from which the story is told.  
Print Awareness – Ability to understand how print works.  
Reading Awareness – Uses the language of literacy (top, bottom, same, different).  
• Identifies the beginning, middle, and end of a story, with the main idea coming first and details added later.  
• Demonstrates awareness that language can be written down and read later.  
• Differentiates between pictures and words.  
• Shows curiosity about environmental print.  
• Differentiates between pictures and words.  
Reading critically – Reading in which a questioning attitude, logical analysis and inference are used to judge the worth of text; evaluating relevancy and adequacy of what is read; the judgment of validity or worth of what is read, based on sound criteria.  
Receptive Language – Being able to receive and give meaning to message/words heard.  
Research – A systematic inquiry into a subject or problem in order to discover, verify or revise relevant facts or principles having to do with that subject or problem.  
Rime – The part of a syllable that contains vowel and all that follows.  
Shared Reading – Teacher guides the entire class through stories with a high level of support; sharing and reading a story together (echo reading, choral reading or fill the gap reading).  
Shared Writing – Teacher and learner work together to compose a message or story.  
Tone – The attitude of the author toward the audience and characters (serious or humorous).  
Voice – The fluency, rhythm and liveliness in writing that make it unique to the writer.
The school experience consists of much more than the academic content that teachers share with students every day. School success is also dependent on children’s ability to learn, their interest in learning, and the connections between schools, community agencies and families that enable the child to learn in a way that supports his or her own learning style, needs and home experience. The partnership, links and connections that begin in the early childhood years between teachers and administrators and families, along with the other agencies in which a child or family interacts are critical to providing a holistic and seamless approach to children’s learning. Schools and families should work together to share information about individualized learning plans and goals; assure positive transition to and from the current school setting; and identify and refer family members to other community agencies when appropriate.

Young children are curious, and from birth, they naturally seek out problems or questions to solve. They use their senses to explore materials and the environment and the search for answers to perceived problems or situations is motivational, holding their attention and creating their enthusiasm for learning. When classrooms or learning environments are structured to promote this curiosity or a sense of wonder and delight, they use instructional strategies that are based on inquiry. Inquiry is the active searching for knowledge and understanding of a specific idea and occurs most successfully when adults’ intentionally create activities and experiences that allow children to use previously learned knowledge to understand new information. The adults’ role during this active exploration is to scaffold children’s thinking by asking “open-ended” questions that encourage problem solving and support children’s imagination and story-telling. Open-ended questions or statements such as, “I wonder why that’s painted blue” or “If you were Sally, what would you have done?” Allow children to express their thoughts, think creatively and problem solve. They are a more successful choice to encourage learning and critical thinking than closed questions, such as “What color did you choose?” or “Did Sally make a good choice?” that typically result in short answers that don’t ask or provide good insight into children’s thinking.

### PARTNERSHIPS FOR LEARNING

#### FAMILIES, LEARNING ENVIRONMENTS AND COMMUNITIES

![Image](image_url)

**WONDER AND DELIGHT!**

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STANDARD 20.1: CONNECTIONS: SHARED UNDERSTANDING OF FAMILY AND SCHOOL VALUES, PHILOSOPHIES AND CULTURES

**BIG IDEA:** The relationship between the family and school personnel is a critical foundation to children’s success in school.

**ESSENTIAL QUESTION:** How do schools understand families’ home lives, their values, and attitudes towards learning? How do schools incorporate family preferences and interests into the life of the classroom? How do schools assure that families are familiar with and accepting of school values, attitudes and philosophies?

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**STANDARD STATEMENT**

- Offer an on-site enrollment meeting where the family can meet school personnel and observe the classroom where the child will be attending
- Share family and school routines and any needed accommodations
- Provide and regularly review a Parent Handbook that outlines program expectations and operating details
- Offer parent-teacher school events that provide updates and give families opportunities to participate in school life
- Identify home culture, language, routines, and how they might impact a child’s adjustment to school
- Discuss schedules, events or past experiences that may impact a child’s school experience
- Share instructional philosophies that help families understand the school structure

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**THE FAMILY AND SCHOOL TOGETHER**

- Participate in introductory enrollment meetings that enable both family and school representatives to share values, attitudes, philosophies about learning along with unique details and needs of the child and family
- Provide a classroom tour for child and family where they can meet the teacher and explore the classroom setting
- Discuss family’s needs for drop-off and pick-up, food allergies, napping procedures, potential language barriers or infant feeding schedules
- Hold a “Back to School” or Open House night
- Talk about a recent event such as divorce or death, which may be impacting a child’s behavior at school and discuss ways to inform the family about school adjustment
- Discuss child guidance and management strategies so both family and school understand the similarities and differences in approach
- Talk about previous group experiences and child’s reaction – what might be expected on the first few days
- Ask questions to learn about the child’s temperament
- Ask child to bring to school pictures of family members, home environment or other important home elements that might make the adjustment to a new school easier
- Support family’s apprehensions during the first few weeks of school by calling them on the first day to describe child’s adjustment or by inviting the family to stay with the child for increasingly shorter periods of time prior to drop off
- Formulate a survey or questionnaire that can be done orally or in writing to learn about family attitudes and philosophy on child rearing, learning, reading
- Talk about the classroom structure and how children learn through play
- Learn about who the child considers ‘family’ and how the family defines itself, including extended family members if relevant

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CONTINUED...
**STANDARD 20.1: CONNECTIONS: SHARED UNDERSTANDING OF FAMILY AND SCHOOL VALUES, PHILOSOPHIES AND CULTURES**

**STANDARD STATEMENT**
- Identify family practices and traditions that should be included within the classroom
- Work with families to identify books, songs, and finger plays, dances, foods, toys that should be included in the classroom or school environment; ask for donations
- Learn about the family and home setting and incorporate into the school experience, asking for updates and new information regularly
- Invite family members into the classroom to discuss cultural information with the children, to participate in classroom life, or to identify community locations or businesses that can be visited
- Work with families to determine child’s best classroom placement including when to transition from one to the next and personality types

**THE FAMILY AND SCHOOL TOGETHER**
- Identify ways to assure the child’s positive and comforting entry into a new classroom setting, such as a picture in the cubby, a stuffed animal or blanket
- Encourage volunteers and program participation from cultural groups in the community such as foster grandparents or other multi-generational connections
- Determine if child may eat traditionally served foods and celebrate holidays
- Use family or culturally specific phrases or words to describe activities or materials
- Ask about family members, calling them by name, such as how is the newborn and how grandpa is doing after return home from hospital
- Add culturally-specific materials and experiences into the schedule and environment such as adding a wok to the cooking area, or counting in both English and Spanish during morning message
- Invite a family member to teach the class a culturally-specific song or to provide the words to the song
- Display family pictures inside and outside the classroom
- Seek out community volunteers to share information about specific events or activities that are meaningful to children
- Serve familiar cultural foods and introduce new traditional foods periodically – such as rigatoni with cheese or bagels and cream cheese
- Encourage children to show pride in family-specific beliefs or practices by showing interest and describing them to the class

**20.1.2 HOME TO SCHOOL CONNECTIONS**

**STANDARD STATEMENT**
- Assure that family communications are done in culturally-sensitive ways that accommodate family literacy levels, and culture barriers
- Regularly send home information about the child’s growth and progress and adjustment to the school setting
- Discuss the program and classroom operational procedures such as absences, snow delays, payment, etc and learn if there are potential challenges for families, making accommodations as appropriate
- Make available voluntary “at home” activities that families can complete with child, being sensitive to family structure and culture
- Create an “open-classroom” policy where family members can visit or volunteer in the classroom or school
- Where appropriate, complete home visit with family
- Support families’ efforts to build the child-child or family-family connection

**THE FAMILY AND SCHOOL TOGETHER**
- Create videos, picture books and written schedules that depict the classroom daily routine and send home to families as requested
- Ask family members to identify successful accomplishments the child may have completed at home during the week and acknowledge them in school
- Provide connections between school and school activities such as “We are learning about caterpillars and read The Very Hungry Caterpillar. Here’s green paper and scissors for you to make a caterpillar at home”
- Take a picture of a child at school, such as sitting with a completed block structure or reading a book, and send home to family or email it to family member, “Look what Tamika did today!”
- Disseminate newsletters that highlight key events in the life of the program and the classroom; identify key songs, books and recipes, and clarify a key program expectation
- Post the daily schedule in the parent information area for families to become familiar with the sequence of the day
- Regularly update classroom or program message boards to keep information current and fresh
- Create a classroom web page and provide family members with the link – include a bulletin board or question and answer section that is checked by classroom staff regularly
- Provide opportunities for families to meet each other and connect based on commonalities, such as “Miles’ family lives in your neighborhood too” or “Sandy’s mom just found out she’s going to have a new baby also”, being respectful of confidentiality
## STANDARD 20.2: FAMILY ENGAGEMENT

### BIG IDEA:
Children’s motivation to learn and succeed in school is impacted by family support and involvement in the life of the program.

### ESSENTIAL QUESTION:
How do families and schools work together to make decisions about the program? What kinds of school events and activities encourage family participation? How do we assure that information exchange is reciprocal?

### STANDARD STATEMENT
- Implement a family–school annual review of program operation
- Develop and update annually a Parent Manual that details operational procedures
- Establish conflict resolution policies that identify procedures for complaints or suggestions
- Post regulations and program requirements in strategic locations within the school so family members can review it regularly
- Offer training to Advisory or Board on shared governance
- Encourage family members to participate in schoolwide parent–teacher organizations

### THE FAMILY AND SCHOOL TOGETHER
- Invite family feedback from classroom observations and share summary of results
- Invite family members to participate in oral interviews about the program experience
- Create a Parent Handbook committee which includes staff, families and community members who annually review information and suggest updates as needed
- Develop a joint family–school committee that investigates new state, federal or local initiatives that may impact the school’s operation and recommends next steps
- Identify a procedure which includes family members and staff to consider complaints and make recommendations for improvement
- Disseminate parent surveys or interviews to all or a percentage of the clientele which provides feedback about general program operation or about newly instituted policies
- Inform families of ways to share concerns or worries about school policy and develop a review process to handle issues
- Design a Governing Board or Advisory Committee whose members represent families, community agencies and school personnel
- Involve the families in program goal–development and strategic planning

### 20.2.1 SHARED GOVERNANCE OR DECISION-MAKING

- Learn families’ interest and capacity for participation in specific events such as a holiday party and graduation event
- Offer family education events such as parenting classes, sign language, health and safety, etc that reflect families’ interests and needs
- Incorporate unique cultural events or beliefs into classroom life
- Invite families to plan and implement classroom celebrations

### THE FAMILY AND SCHOOL TOGETHER
- Inform families about community cultural events that may be occurring at specific times of the year and determine if/how the event could be expanded into the classroom
- Ask a family to share information about a specific event, such as Chinese New Year, and help you design a related activity
- Within classrooms or programs, come to consensus about how holiday celebrations or birthdays should occur at school
- Create a family resource area that contains books, toys, informational pamphlets, that families can access
- Design parent education events that families can do together after work, such as Parents as Teachers workshops, or ways to transition children into kindergarten
- Offer parent nights or events at mutually-agreed upon times, including meals or babysitting when appropriate
- Seek feedback from families to design field trips or big classroom events that may be of particular interest to the children
- Ask families if they’d like to volunteer materials or information about specific cultural events
- Increase awareness by finding locations in the community that will allow children’s work to be displayed, such as a library or town hall
STANDARD 20.3: SUPPORTING CHILDREN’S LEARNING

**BIG IDEA:** Early childhood programs must work closely with families to support children’s development and learning, both at school and at home.

**ESSENTIAL QUESTION:** How do families and school work together to identify children’s skills, interests and long-term and short-term goals for learning? How do I understand families’ at-home learning attitudes and strategies? How do I provide individualized and meaningful at-home learning connections to the school experience?

---

### 20.3.1 SCREENING AND ASSESSMENT

#### STANDARD STATEMENT
- Identify screening, assessment and referral processes that include family’s involvement
- Utilize screening and assessment instruments that are aligned with the early learning standards
- Assure that children are screened for health, mental health, dental, social–emotional, and cognitive development and the results are shared with families
- Be familiar with community agencies that provide additional screenings or assessments upon referral
- Provide information on child development and parenting that identifies age-appropriate skill development
- Conduct age appropriate baseline and ongoing authentic assessments to identify strengths and areas of focus for future learning and development that are culturally-sensitive, delivered in the language requested by the family and whenever possible, incorporate family feedback
- Utilize multiple sources of evidence to understand individual children’s growth and development, including parent report, observations, and standardized checklists

#### THE FAMILY AND SCHOOL TOGETHER
- Assure families’ understanding of the purpose of screening and prepare them for the process, including their input and shared-decisions about referrals when appropriate
- Share initial results of screening and assessment with the family in a way that enables family adults to understand the child’s strengths and areas for focus
- Work with family to explain screening and assessment results and identify how they align with home experiences and observations
- Work together to identify referral agencies where needed and support families’ contact with them
- Be sensitive to some families’ reluctance to act on potential referral or additional evaluation recommendations, periodically re-assessing and discussing until action is taken, if needed
- Collect and share portfolio items with families, asking for at-home contributions as well, that show children’s growth and development of specific skills
- Provide information on child development that is written in easy-to-understand language

### 20.3.2 GOAL DEVELOPMENT

#### STANDARD STATEMENT
- Use assessment results to lay the framework for understanding individual children’s strengths and areas of need
- Share with parents information about each child, including stages of development, interests and assessed skill levels, identifying those that are on track and those that could use additional attention
- Meet periodically to discuss previously determined goals, identify any strengths or improvements and make new decisions about learning goals and activities
- Periodically assess the learning environment and provide activities for age, linguistic and cultural appropriateness and modify if needed

#### THE FAMILY AND SCHOOL TOGETHER
- At the family–school meeting, both family and teaching adult share information about the child’s interests and skills to facilitate joint planning of activities and goals
- Teaching adult shows family the continuum of learning development in the Key Areas of Learning and together they identify where the child falls on the continuum, next steps and whether it should be a specific area of instructional focus
- Family and teacher agree on key skills or attitudes for focus and accommodate each other’s interests when appropriate. For example, the family changes math goal expectation from “counting to 100” to “counting to 20,” based on learning standards or the teacher adds a math skill since it is important to family even though it wasn’t identified in the assessment
- Teaching staff and family talk about ways each goal could be supported at home, identifying basic at-home routines that can be used to “teach”, such as counting steps or sorting socks, and the types of intentional instruction that will occur at school
- Classroom personnel praise family interest and participation, helping them to see that they are the young child’s primary teacher
- Participate in development and review of child’s IFSP or IEP, working with the parent and intervention program to formulate appropriate expectations

---

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## STANDARD 20.3: SUPPORTING CHILDREN’S LEARNING

### 20.3.3 ONGOING PROGRESS REVIEW

**STANDARD STATEMENT**
- Classroom adults and families should work as a team to review children’s goals and progress regularly and to develop new strategies that promote children’s successful growth and development.
- Classroom staff and families should participate in a minimum of two face to face conferences to discuss children’s developmental progress and other pertinent updates.
- Offer informal opportunities for family members to converse with classroom adults as needed about children’s progress.
- Schools should offer a wide variety of materials and ideas that link home and school learning environments, offer information on child development and parenting and support parents’ interest and participation in the child’s learning process.

**THE FAMILY AND SCHOOL TOGETHER**
- Send home a brief note that identifies growth towards skill mastery such as, “Mary counted to 10 today during circle time!” Read comment to child so she/he feels excited about sharing the note with the family adults.
- Schedule a fall and spring conference date, identifying with the family where the conference should occur either home or school, and accommodating families’ unique schedules.
- Offer notes to families (or other culturally appropriate communication strategies) that help families understand what’s occurring in the classroom and how it could link to home, such as “We’re going to work on gross motor skills this week with relay races, outside play, and a trip to the park. Take them to the park this week and watch how their skills have grown.”
- Identify potential areas of concern for shared focus, “I noticed Sammy was trying really hard to hop on one foot, but was getting frustrated. Have you seen him do that at home? You may want to play some jumping and hopping games like we’re doing at school.”
- Develop strategies for sharing children’s accomplishments. Ask family members to send samples of children’s at-home work to school and post or send home classroom samples that help families notice progress.
- Remind children how much they’re grown, “Remember when you had trouble making the S in your name? Now, look at your name. You’ve got the S T and E. Way to go!”
- Identify the skills being learned in each activity, helping families to understand the role of play and active learning in the instructional process.

### 20.3.4 COMMUNITY SUPPORTS

**STANDARD STATEMENT**
- Identify and understand the services that are provided within the community and identify contacts within each to facilitate collaborative work.
- Develop ongoing information-sharing processes with other agencies who work with families.
- Create information-sharing processes with other educational or youth activity programs such as the local fitness center, or library.
- Develop and honor confidentiality policies regarding information exchange.
- Utilize community agency’s suggestions to enhance classroom experiences for all children.

**THE FAMILY AND SCHOOL TOGETHER**
- Tell families about special gym classes or music workshops when children show a specific interest or need in those areas, collecting and making available brochures.
- Invite a gym instructor into the classroom regularly to help children develop coordination or balance.
- Ask the local librarian to provide books and reading activities during an evening parent meeting.
- Invite school district personnel to review kindergarten registration and attendance policies with outgoing preschool families.
- Work with Early Intervention to assure referrals have been received and child will get evaluations or services as needed.
- Incorporate specialists’ ideas such as a speech therapist or behavioral therapist into the classroom practice to support all children, including the child with a special need.
- Assure confidentiality statements and release of information approvals have been signed prior to information being shared.
STANDARD 20.4: TRANSITION

**BIG IDEA:** Schools and families must work together to coordinate information exchange from one setting to another that will assure children’s seamless learning experiences.

**ESSENTIAL QUESTION:** How do I create a seamless transition into and out of the program? What resources and materials do I make available for families to assure at-home learning links with school learning?

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**STANDARD STATEMENT**
- Create processes and procedures for welcoming incoming families through enrollment meetings, sharing of expectations and values, parent handbooks and discussion of sensitive issues that may impact school success
- Identify welcome strategies that excite children and families about their upcoming, new experience
- Establish processes for communicating with sending schools about information sharing
- Develop strategies for communicating with community agencies with which incoming families have been involved for information exchange as well as parent interest in continuing

**THE FAMILY AND SCHOOL TOGETHER**
- Provide incoming family forms to complete prior to the enrollment visit so they can gather the needed information
- Welcome incoming family by holding an enrollment meeting that reviews the daily schedule, program and classroom expectations, values and philosophies as well as pre-enrollment requirements such as physical and first tuition payment
- Prior to the child’s attendance, learn about the child’s interests and display toys or activities that may be especially appealing, display books about the first day of school, post pictures from home, and create activities that will capture the child’s interests
- Create orientation books or manuals for both children and adults – “what to expect when you come to school”
- Invite family to visit at least once prior to the first full day, giving children time to meet the teacher and become familiar with the setting
- With parent permission, communicate with sending school about child’s past experiences, review screening and assessment results and other information that will support the child and family’s move from one school to another
- Wherever possible, use some of the sending school’s routines or materials, such as singing the clean-up song or displaying home-made books with pictures of sending school, to ease child’s transition into the new situation
- Develop on-going classroom communication between both schools, such as encouraging children to write letters or draw pictures about their new experience and send to the sending school or create “pen pals” between sending and receiving schools
- For children who arrive mid-year, pair up a new child with a child who has been in the program for a while
### STANDARD 20.4: TRANSITION

#### 20.4.2 PROGRAM EXIT

**STANDARD STATEMENT**
- Develop policies and procedures for transferring information about child’s program participation to the next school location
- Help family understand the expectations and schedules of the receiving school, mapping out strategies for success whenever possible
- Work with receiving school to facilitate pen pals, visits, or other activities where the children can become familiar with the new school and stay in touch with the old school
- Set up information-sharing processes with receiving school to discuss child’s goals, progress, and interests

**THE FAMILY AND SCHOOL TOGETHER**
- Meet with receiving schools to identify commonalities between the schools’ approaches and convey them to families so they will have some comfort with similar routines and activities
- Establish information-exchange processes between sending and receiving school that provide opportunities for teachers to share successful strategies for learning that will support the transition
- Provide the receiving school with materials or activities that can be used to offer familiarity and comfort during the transition, such as a “treasure hunt” activity or set of questions to answer in the new school or picture books of the sending school
- Display materials from the receiving school that children will recognize when they transition such as a picture book of the new school, classrooms and teachers; talk with children about what to expect
- Send child to new school with a portfolio of completed work – either to keep at home or to share with the school
- Arrange a time to visit child at new school or to call and talk with family after they have left the sending school atmosphere

#### 20.4.3 COMMUNITY CONNECTIONS

**STANDARD STATEMENT**
- Identify and include child’s participation in other schools or programs on information that is sent to receiving school – in transition
- Develop relationship with local Early Intervention agencies, birth to three and three to five, and create process for information and referral exchange
- Participate in the county Community Engagement Group and other community–collaborative agencies that advocate for early childhood locally and statewide early
- Assure the program’s representation at county or community days
- Produce regularly-updated program brochures or promotional materials and distribute throughout the community
- Arrange for information-sharing sessions with local school districts to develop shared expectations for entry and exit into the programs
- Offer early childhood professional development to other community agencies
- Invite community agencies to provide special seminars or workshops for families

**THE FAMILY AND SCHOOL TOGETHER**
- Develop a transition form that assures transfer of information from sending to receiving school
- Schedule meetings with Early Intervention providers and local Head Start agency to introduce your school and to discuss collaboration
- Invite local librarian to visit the school to present a story hour. Invite family members
- Register incoming kindergartners at local preschool settings for family convenience and familiarity
- Use field trips to introduce children to nearby agencies and resources that may be tapped or invite community agency representatives to visit the school and read to children or work on activities with small groups
- Meet with local preschools to review their strategies for use of the learning standards in their instruction and develop common ground
- Post a display shelf of community agencies’ brochures for family access and/or feature a community agency in the monthly newsletter
- Disseminate state resources such as Kindergarten, Here I Come, Kindergarten, Here I Am and Learning IS Everywhere
- Participate in community events that allow school to stay updated on state and local events or create a booth/display for county events
- Join online state list serves to stay current (not everyone might know what these are, thus the clarification)
- Host joint meetings of schools, district, and community agencies to network and talk about community needs
- Offer PQAS standards–based training to other community providers
- Disseminate agency newsletter to community agencies
Ill children need early childhood programs that nurture emotional security, positive self concept and respect for others. Children’s social and emotional development is strengthened when they have classroom experiences that promote a sense of identity and belonging within an accepting and responsive environment. Teachers support children’s self identity and social competence by modeling respect for the children, using positive guidance techniques that support the development of self control and interpersonal problem solving, and by encouraging positive approaches to learning and interacting with others.

**TEMPERAMENT**

Every human being has a unique way of looking and interacting with the world known as temperament. Some of us are reserved or shy; others are outgoing and make friends easily. Some of us enjoy learning new things and others are wary about trying new things or dealing with new situations. These temperament traits influence the way in which a child learns, interacts with others, and expresses himself. Adults need to adapt their teaching practices to match the individualized needs of children and consider how their own temperament affects the way in which important relationships with children are developed and maintained.

**Standard**

<table>
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<td>Z5.4: Pro-Social Relationships with Peers</td>
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</table>
## STANDARD 25.1: SELF CONCEPT (IDENTITY)

### Big Idea:
Children see themselves as valuable and worthwhile individuals in their homes, classrooms and communities.

### Essential Questions:
How do I know what my preferences are? How do I develop a positive feeling about myself? How do I grow confident in myself and my abilities?

<table>
<thead>
<tr>
<th>25.1.1 Self Awareness</th>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
</tr>
</thead>
</table>
| **25.1.1 Self Awareness** | • Demonstrate awareness of preferences and communicate them to others  
• State complex thoughts and feelings | The learner will:  
• Verbalize own needs, likes, and dislikes  
• Describe self using several behavioral or physical characteristics, such as “I am 5 and I can skip.”  
• Differentiate between preferences for self and others, such as “I like to play with blocks and he likes to draw pictures.”  
• State the types of books she/he likes to read  
• Talk about foods, toys, activities she/he likes or dislikes  
• Express an opinion or idea about a particular topic  
• Suggest games and activities that demonstrate own abilities and preferences (jumping rope, playing soccer) | The adult will:  
• Refer to each learner by name  
• Display children’s artwork at their eye level  
• Ask learners to talk about how books relate to their personal experiences  
• Involve children in classroom decision-making, inviting them to make choices that demonstrate their preferences, such as asking what, where, when, why questions?  
• Encourage journaling or story-writing about preferences and accomplishments  
• Listen to and validate children’s expressed feelings and interests |

<table>
<thead>
<tr>
<th>25.1.2 Understanding Emotions</th>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
</tr>
</thead>
</table>
| **25.1.2 Understanding Emotions** | • Express emotions appropriately, modifying intensity of reaction as needed  
• Recognize and label complex feelings | The learner will:  
• Tell others when she/he feels frustrated, angry, upset, using appropriate language to describe how she/he is feeling  
• Respond with appropriate behavior to changes in the environment or routine  
• Adapt to new adults in the school setting  
• Use art forms or writing to express feelings or thoughts | The adult will:  
• Model appropriate responses to a variety of situations  
• Introduce and use new vocabulary pertaining to feelings  
• Read books about children and their feelings and discuss them  
• Encourage children to use a variety of ways to express feelings such as drawing, writing, and exercise  
• Graph’s learners’ feelings about certain ideas or topics |

<table>
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<tr>
<th>25.1.3 Competence</th>
<th>Standard Statement</th>
<th>Exemplars (Examples)</th>
<th>Supportive Practices</th>
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</thead>
</table>
| **25.1.3 Competence** | • Express pride in oneself’s and others’ accomplishments  
• Demonstrate self-direction in choosing a wide range of play and learning activities  
• Attempt new activities and experiences with independence | The learner will:  
• Initiate the sharing of work and accomplishments with peers and adults at appropriate times.  
• Work independently for a short period of time  
• Express excitement over a successful project and want others to like it too  
• Choose activities, select materials, and carry out tasks | The adult will:  
• Provide, encourage, and support opportunities for autonomy and self direction (centers, job chart)  
• Encourage learners to try new activities and tasks  
• Praise and encourage learners’ efforts and accomplishments  
• Encourage learners to praise others’ efforts and accomplishments  
• Ensure that the environment is safe from cultural or other forms of bias |
SOCIAL AND EMOTIONAL DEVELOPMENT: LEARNING ABOUT MYSELF AND OTHERS

STANDARD 25.2: SELF REGULATION

BIG IDEA: Children will express feelings, thoughts and needs appropriately to adults and peers.
ESSENTIAL QUESTIONS: How do I express my feelings appropriately? How do I manage my feelings? How do I use healthy strategies to manage my behavior?

25.2.1 EMOTIONAL REGULATION

STANDARD STATEMENT
• Attempt to independently resolve a problem or conflict
• React appropriately in challenging or unique situations
• Manage most changes in routines and activities with a minimum of guidance and direction
• Understand the consequences of own behavior and its impact on others

EXEMPLARS (EXAMPLES)
The learner will:
• Think twice when angry before hitting or responding inappropriately to a situation
• Maintain composure when not selected (to answer question, be first in line, and play game)
• Ask for help when feeling frustrated instead of ripping up paper or crying
• Separate feelings from actions
• Control compulsive behavior
• Use words rather than actions in difficult situations
• End one activity when asked and move to another
• Seek cooperative solutions to peer conflicts

SUPPORTIVE PRACTICES
The adult will:
• Use non-verbal and verbal interactions that are congruent with feelings
• Utilize logical consequences and guidance practices that support learner self-control
• Allow time for learners to solve their own conflicts with peers, offering guidance and suggestions where needed
• Provide opportunities for dramatic play where learners can practice appropriate responses to difficult situations
• Announce changes to routines and schedules ahead of time, whenever possible

25.2.2 BEHAVIORAL REGULATION

STANDARD STATEMENT
• Perform self-care tasks independently
• Independently follow rules and routines in classrooms and other settings
• Independently use materials with purpose, safety and respect
• Understand and interpret rules and assure others follow them
• Make transitions between activities upon adult direction
• Demonstrate delayed personal gratification until appropriate time

EXEMPLARS (EXAMPLES)
The learner will:
• Persist in self-care activities, such as fastening jacket and tying shoe
• Stop oneself when running in the classroom and walk instead
• Enter classroom and independently, hang up coat and put away book bag
• Line up and stay in line when moving from classroom to another location
• Use materials for correct purpose such as scissors for cutting paper not hair
• Wait turn to show picture or to receive a sticker from teacher
• Remind a child to stop talking while the teacher is talking
• Return materials to shelf after using them

SUPPORTIVE PRACTICES
The adult will:
• Offer activities that support self control, such as stop–start games and block play
• Cue learners so they can bring their work to an end prior to transitioning
• Give specific directions with reasonable expectations and time to comply
• Provide opportunities for learners to play with games that require adherence to simple rules
• Read books about learners’ responses to situations and discuss the outcome
• Play “what if...” where learners discuss potential resolution to problems
• Maintain a clean and neat classroom environment and allow learners time to clean up upon completion of activities
• Post a few simple classroom rules
• Introduce new materials or activities by carefully describing appropriate use or response and verify students’ understanding
STANDARD 25.3: PRO-SOCIAL RELATIONSHIPS WITH ADULTS

BIG IDEA: Children will learn to develop healthy relationships through positive adult interactions.

ESSENTIAL QUESTIONS: How do I learn to trust adults? How do I learn to communicate with my parents and familiar adults?

25.3.1 TRUST

STANDARD STATEMENT
- Solicit help from adults to accomplish challenging tasks
- Respond, and appropriately question adults’ directives for greater understanding
- Engage in reciprocal conversation with familiar and unfamiliar adults when appropriate

EXEMPLARS (EXAMPLES)
The learner will:
- Ask for help when needed to complete a task after independently trying
- Ask for clarification, “Do you want me to color this box?”
- Share information about events and happenings at home, “My dad left for a business trip this morning”
- Respond to classroom visitors’ questions or directives
- Maintain eye contact for a brief period when talking with adult

SUPPORTIVE PRACTICES
The adult will:
- Promptly respond to students’ requests for help
- Respond quickly to requests for help, giving students cues and time for independent resolution, such as, “try to hold that a different way and see if it will fit now”
- Listen respectfully and with interest to children’s stories and situations, asking questions and responding where appropriate
- Whenever possible, provide explanations about changes in routines or schedules
- Invite visitors into the classroom and give children opportunities to engage in interactions with them

25.3.2 ATTACHMENT

STANDARD STATEMENT
- Show pleasure when interacting with specific adults
- Separate in some unfamiliar settings when familiar people are nearby

EXEMPLARS (EXAMPLES)
The learner will:
- Greet teacher with warmth upon arrival each day
- Engage in conversation with familiar adult
- Show interest in other familiar adults’ life and experiences
- Adapt to new adults in the school setting
- Notice when adults or students are missing
- Leave classroom to go to the nurse when called

SUPPORTIVE PRACTICES
The adult will:
- Greet students each day and ask questions about how they’re feeling or activities they’ll be participating in
- Where possible, model positive interactions with parents, engaging them in conversations with interest
- Provide warnings when possible about adults who will be visiting or no longer attending
## STANDARD 25.4: PRO-SOCIAL RELATIONSHIPS WITH PEERS

### BIG IDEA:
Children will learn to develop healthy relationships through positive peer interactions.

### ESSENTIAL QUESTIONS:
How do I learn to interact with peers? How do I make friends?

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<thead>
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<th>SUPPORTIVE PRACTICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>25.4.1 SOCIAL IDENTITY</strong></td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Engage in cooperative learning activities to complete a task</td>
<td></td>
<td>• Arrange the environment so there is space for learners to work together and create cooperative activities for learning</td>
</tr>
<tr>
<td>• Initiate play with 2-3 peers during free choice time</td>
<td>• Ask others to join in during play</td>
<td></td>
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<tr>
<td>• Play cooperatively with 3 or 4 children for sustained periods of time</td>
<td>• Ask to join others’ play activities</td>
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<tr>
<td>• Participate in cooperative large group activities with adult guidance</td>
<td>• Work with other children to complete a work task or project such as making a collage to depict a story</td>
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<tr>
<td>• Engage in games and activities that require adherence to rules</td>
<td>• Play simple board games with others, following basic rules</td>
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<tr>
<td></td>
<td>• Participate in group games like dodge ball or relay races</td>
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<td></td>
<td>• Engage in dramatic play or block play with others to create scenarios</td>
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<td>• Assist and facilitate learners in solving their own conflicts rather than removing a learner and/or the material</td>
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<td>• Model nurturing behaviors by performing acts of kindness and helpfulness to other adults and children</td>
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<td>• Use classroom management strategies and techniques that promote positive behaviors</td>
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<td>• Use a peace table to help children negotiate their own conflicts</td>
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### 25.4.2 RESPECT AND EMPATHY

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<tr>
<td>• Recognize and label others’ feelings</td>
<td>The learner will:</td>
<td>The adult will:</td>
</tr>
<tr>
<td>• Seek and accept help from peers</td>
<td></td>
<td>• Assist and facilitate learners in solving their own conflicts rather than removing a learner and/or the material</td>
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<tr>
<td>• Initiate sharing and turn-taking when appropriate</td>
<td>• Notice when others are feeling sad or hurt and tell another, “Johnny doesn’t like it when you do that.”</td>
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<tr>
<td>• Respect the feelings, rights and belongings of peers</td>
<td>• Ask another child to help pass out the materials for a task</td>
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<tr>
<td>• Engage peers in successful resolution of a problem</td>
<td>• Solve a conflict by talking with the other involved persons, “I’ll read this book for 5 minutes and then I’ll pass it to you.”</td>
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<tr>
<td>• Communicate in respectful ways to peers and adults</td>
<td>• Return a dropped or forgotten object to another, “you dropped your pencil”</td>
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<tr>
<td>• Respect and understand others’ differences in comparison to self</td>
<td>• Discuss others’ differences matter of factly, “you should use this crayon to match your skin color and I should use this one” or “ I have 2 mommies and you have a mom and dad”</td>
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<td>• Show visual depictions of children’s preferences through graphs or charts such as # children who prefer red or yellow apples</td>
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<tr>
<td>• Partner students with varying levels of competence on specific tasks to work together</td>
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SOCIAL STUDIES THINKING


National Council for the Social Studies: www.ncss.org


HEALTH, WELLNESS AND PHYSICAL DEVELOPMENT


Time Out: Using The Outdoors to Enhance Classroom Performance is available at: http://www.nwf.org/nwfwebadmin(binaryVault)/Time%20Out%20With%20Outdoors%20Activities.html

LANGUAGE AND LITERACY DEVELOPMENT

http://www.teach-nology.com/teachers/early_education/subject_matter/language_arts/

http://www.kidsource.com/schwab/developing_reading_skills.html- Kid Source Online

http://www.esl4kids.net/ Resources for young English Language Learners

http://curry.edschool.virginia.edu/go/wil/home.html Literacy and Head Start (Webbing into Literacy)


http://www.ifq-inc.com/Consumer_Reports/LearnToRead.html Helping your child read– (infancy through age 10) ideas for parents from the US Government


http://www.fcrr.org/ Florida Center for Reading Research (teacher and parent ideas)


SOCIAL AND EMOTIONAL DEVELOPMENT


James Comer School Development Program

www.schooldevelopmentprogram.org/

Rutgers University Social Emotional Learning Law

www.rutgers.edu/~melias/

PARTNERSHIPS FOR LEARNING

For more information and for resources to help you design, implement, and evaluate family involvement work, consider making use of the following resources:


School Readiness and the Transition to Kindergarten in the Era of Accountability (Paperback) by Robert C. Pianta (Author, Editor), Kyle L. Snow (Editor), 2007


## ACKNOWLEDGEMENTS

<table>
<thead>
<tr>
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<th>Organization/Department</th>
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<tbody>
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