Big Ideas for Early LearningTM

Glossary

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Introduction to Big Ideas

Determining "What to Teach" young children is influenced by district, agency, state, and federal early learning standards (National Governors Association [NGA], 2010; Scott-Little, Kagan, Frelow, & Reid, 2008; Scott-Little, Lesko, Martella, & Milburn, 2007; White House, 2002). For example, a Head Start teacher living in Ohio serving a preschooler with a disability would, at a minimum, be guided by domain elements of the Head Start Child Development and Early Learning Framework, Ohio Early Learning and Development Standards, and Office of Special Education Program's child outcomes, resulting in over 100 "things" to be taught. Additionally, many preschool teams are required to adopt and implement a curriculum, which may include additional resources, formative assessments, and/or activities with additional "things" to be taught (Grisham-Brown & Pretti-Frontczak, 2011).

A strategy teams can employ to manage "What to Teach" young children, is to identify the Big Ideas underlying the 100s of indicators, standards, and outcomes. Big Ideas present a way to think about outcomes for learning that show the connection between isolated facts, figures, and skills. Kame'enui and colleagues (2002) define Big Ideas as "highly selected concepts, principles, rules, strategies, or heuristics that facilitate the most efficient and broadest acquisition of knowledge" (p. 9). In general, Big Ideas promote the integration of knowledge and skills, and lead to deeper learning (Grisham-Brown & Pretti-Frontczak, 2013).

Big Ideas for Early Learning[™]: Glossary

Table 1.

In 2005, an initial set of 25 Big Ideas were developed to consolidate and align indicators from Ohio's Early Learning Standards with early childhood curricula (Pretti-Frontczak, Jackson, McKeen, Schuck, & Stackhouse, 2005). The 25 Big Ideas represented broad concepts and skills covering content from subject areas (e.g., Language Arts, Mathematics) and developmental domains (e.g., Social, Adaptive).

The Big Ideas for Early LearningTM: Glossary includes five (5) Knowledge Big Ideas and 11 Process Big Ideas (see Table 1 for an alphabetical listing). The Knowledge Big Ideas represent what young children should know related to factual information, concepts, and terms. The Process Big Ideas represent ways of acting upon and using knowledge. Specifically, the Big Ideas for Early LearningTM: Glossary contains a definition of each Big Idea, additional definitions of components of the Big Idea, and examples of how children demonstrate the Big Idea using multiple means of expression. The examples are designed to illustrate the variety of formats children can use for (a) responding, (b) interacting, (c) using resources, toys and materials, (d) conveying meaning, and (e) expressing ideas, feelings, and preferences.

Knowledge Big Ideas	Process Big Ideas
1. Associations	1. Classifying
2. Attributes	2. Comparing and Contrasting
3. Function	3. Comprehending
4. Labels	4. Creating
5. Reliance	5. Inquiry
	6. One to One
	7. Problem Solving
	8. Reasoning
	9. Segmenting and Blending
	10. Sequencing
	11. Symbolizing

Alphabetical Listing of Preschool Knowledge and Process Big Ideas

Considerations When Using the Glossary

The Big Ideas contained in the glossary, while designed to cover critical knowledge and processes to be acquired and refined during the preschool years, do not reflect an exhaustive list of all the content that can or should be addressed. Further, our examples are just that – examples, again, not an exhaustive list of the multitude of ways children with diverse abilities can show us what they know and can do. Therefore, we offer three cautions when using the glossary.

First, it is critical for teams to provide children with different ways and opportunities to demonstrate what they know and are able to do, express their feelings and preferences, convey meaning, and build upon their individual strengths and abilities (DEC, 2007). When assessing children and planning and revising instruction, children should be encouraged to use verbal and/or non-verbal expressions:

Verbal expressions include but are not limited to speaking, signing speech, singing, rapping, or using assistive technology such as voice output devices to enable verbal expressions. Verbal expressions are used for purposes such as labeling, asking questions, answering questions, commenting, informing, greeting, rhyming, reciting, describing, discussing, explaining, reporting, translating, predicting or directing others.

Non-verbal expressions include but are not limited to manipulating, motioning/gesturing, pointing, drawing, painting, underlining, marking, pantomiming, dancing, or using assistive technology such as a white board to enable non-verbal expressions. Non-verbal expressions may be used for purposes such as showing (rather than telling), representing, following directions, matching, sorting, comparing, locating, diagramming, illustrating, reviewing, selecting, or grouping.

Thus, when using the Big Ideas as part of instructional planning, teams need to ensure children are given multiple ways or means of expressing what they know and can do. Further, the examples provided across the glossary are designed to illustrate multiple means of expression and should be representative of verbal and non-verbal expressions. Teams are, however, encouraged to add examples over time.

Specific to the Big Idea of LABELS, additional, and possibly endless examples could have been provided; however, we used the Big Idea of LABELS to include things that were not directly covered by another Big Idea (e.g., types of shapes could have been included in LABLES but shapes is addressed in ATTRIBUTES).

Second, depending upon a child's intention, demonstration of various concepts, terms, and processes may fit into one or more Big Ideas or multiple components of a Big Idea. In other words, the Big Ideas are not necessarily mutually exclusive. Further, existing assessments and/or curricula may classify terms differently than the Big Idea Glossary. How terms are classified isn't as important as ensuring multiple and varied opportunities for children to gain an understanding of all the Big Ideas. Equally important is to understand that a single statement, request, directive, and/or model provided by an adult/peer can create a learning opportunity across multiple Big Ideas. Again, it is less important to create learning opportunities that address a single Big Idea than it is to be clear and intentional about what is being taught. To promote growth and learning, children need to receive the right amount of support and scaffolding and teams need to reinforce and provide adequate feedback regarding the desired behavior (Grisham-Brown & Pretti-Frontczak, 2011).

Third, growth and learning during the preschool years is more than the *acquisition* of knowledge and skills. During the preschool years children also learn to become more independent, refine the accuracy and precision with which they act, develop confidence, adapt to changing and even distracting conditions, demonstrate perseverance, and increase strength and stamina. Many learning outcomes for young children reflect such qualities or dimensions of behavior and while such attributes are not identified in a single Big Idea, they are qualities that should be promoted across all Big Ideas.

5 Knowledge Big Ideas What Children Know – Concepts and Terms



Big Idea	Definition and Examples
Associations (relationships)	Associations represent relationships or connections between objects, people, and/or events. Knowledge of associations allows children to understand relationships, differences/similarities, and how things organize.
	Children demonstrate understanding of associations between objects, people, and/or events using <i>quantity</i> , <i>size</i> , <i>spatial</i> , and <i>temporal</i> concepts and terms.
	 <i>quantity</i> relations are the specified or indefinite <i>amount</i> of objects, people, and/or events, which can be <i>measured or counted</i>. Children demonstrate understanding of <i>concepts and terms</i> such as none, some, all, any, few, fewer, fewer than, more, more than, less, less than, greater, greater than, same, equal, equal to, equivalent, many, one to one, pair, set, and each. Children demonstrate understanding of actual <i>numerical values/units</i> such as 3, 8, and 14. Children demonstrate understanding of <i>weight</i> (amount of heaviness) concepts and terms such as heavy, light, fat, thin, gram, pound, full, empty, solid, liquid, gas, and plasma. Children demonstrate understanding of <i>length</i> (amount of vertical space) concept and terms, such as tall, long, high, great, short, and low. Examples: Child counts the number of girls and the number of boys and says, "There are <i>more</i> girls." When asked which pile of blocks has <i>fewer</i>, the child points to the pile with 2 instead of the pile with 10 blocks. Child says, "I don't have any." when asked to borrow a marker. Child says, "I used <i>lots</i> of red paint on my picture." When directed to put away <i>all</i> the toys, child puts <i>all</i> the dinosaurs on the shelf. Child says, "We need 15 books," and counts out 8 items. <i>size</i> relations describe "how big" or the <i>extent, degree, magnitude, proportion, or dimension</i> of objects, people, and/or events. Childen demostrate understanding of concepts and terms such as tiny, little, narrow, small, medium, large, broad, wide, giant, big, most, and least.
	Examples:Child arranges objects in order of <i>small. medium</i>, and <i>large</i>.

Big Idea	Definition and Examples
	 When asked who has the <i>least</i>, child points to friend. Child asks for a <i>tiny</i> key to fit into a lockbox. Child says, "He is too <i>big</i> for that chair." When asked, the child builds a road that is at <i>least</i> as long as the train track. Child selects a <i>big</i> drop cloth to cover the area under the easel Child says, "I'm going to draw a <i>giant</i> balloon." When directed, child points to the picture of <i>small</i> letter E. Child makes a <i>wide</i> opening so friends can push a wagon to the other side of the room. Child hugs their knees to their chest and says, "I'm <i>tiny</i> like an egg."
	 <u>spatial</u> relations describe the <i>position, where, or</i> the <i>way</i> objects, people, and/or events are situated. Children demonstrates understanding of concepts and terms such as in, out, on, off, under, up, down, over, here, there, where, above, below, on top of, high, low, top, middle, bottom, far, near, next to, around, behind, start, away, beside, end, forward, outside, back, front, and between.
	 Examples Child says, "The leaves are falling <i>on</i> the ground." While reading, "Where's Waldo", the child looks for Waldo when asked if he is at the <i>top</i> of the page, the <i>middle</i> of the page or, at the <i>bottom</i> of the page? Child sets the table by putting the fork <i>beside</i> the plate. Child says, "I can!" when asked who can stretch way <i>up high</i>? Child points to the <i>next</i> child in line when asked, "Who is next?" Child places bean bag <i>on top</i> of his head, foot, and hand as instructed in "The Bean Bag Song". Child moves <i>in</i>, <i>out</i>, <i>up</i>, and <i>down</i> through an obstacle course. Child refills their cup of juice when it is getting <i>low</i>. Child asks, "<i>Where</i> is my house?" while looking at a map. Child says, "Come over <i>here</i>." Child says, "Come over <i>here</i>."
	 <u>temporal</u> relations are how objects, people, and/or events are <u>ordered/sequenced</u> based upon <u>units or periods of time</u>. Children demonstrate understanding of concepts and terms such as before, after, yesterday, tomorrow, today, now, later, early, if-then, soon, next, last, first, second, third, past, present, future, history, ancient, old days, era, ancestry, lifetime, orbit, cycle, decade, week, month, and year. Children demonstrate understanding of the <i>relative distance</i> between events as measured in units or periods of time.
	Examples:
	• Child says, "I wasn't here <i>yesterday</i> because I was sick."

Big Idea	Definition and Examples
	 Child reminds the substitute teacher that they go on the playground <i>after</i> snack in the morning. Child knows <i>if</i> the clean-up song plays, <i>then</i> it is time to clean. Child moves an icon to the <i>first</i> routine on schedule to <i>start</i> the day. Child says, "<i>Before</i> I build the road, I will find my tools." Child says, "When I grow up, I will be a doctor". Child says, "When I was a little baby, I wore diapers." Teacher says, "We have five more school days, then it will be vacation" and the child smiles and says, "It will be here <i>soon</i>." Child waits after the teacher says, "<i>First</i> it is Andrew's turn, <i>then</i> Mark's, <i>then</i> yours." Child points to a picture of the library when asked, "Where are we going <i>today</i>?" Child is able to leave his dad's side and enter the classroom because he knows after a few hours his dad will be back to pick him up.
Attributes	Attributes represent the distinctive or inherent characteristics or
(characteristics)	property of objects, people, and/or events. Knowledge of attributes allows children to understand the particular cause or source, the criteria used to group things, and to describe and recognize features.
	Children demonstrate understanding of the attributes of objects, people, and/or events using <u>color</u> , <u>quality</u> , <u>shape</u> , and <u>texture</u> concepts and terms.
	 <u>color</u> characteristics are properties created by <i>light striking</i> objects and/or people, and then the way the <i>light is reflected/emitted</i>. Children demonstrate understanding of concepts and terms such as red, dark blue, purple, yellow, black, white, light brown, pastel pink, fuchsia, amber, bronze, magenta, indigo, shade, hue, brightness, clear, contrast, fading, illuminate, light, luster, mate, neutral, reflection, sheen, tint, and visible.
	Examples
	 When asked "What color paint do you want", child responds "Yellow." When playing outside the child points to the sky and says, "The sky is <i>light blue</i>." Child says, "It's hard to see my <i>reflection</i> in the window." Child clears away sand when asked to make the shovel <i>visible</i>. Child puts all the <i>red</i> chips together and the <i>black</i> chips together before starting a game of checkers. Child squints when opening curtains, and says, "It's <i>bright</i> outside." Child points to a picture of a lamp when asked what we use to <i>illuminate</i> a dark room. Child picks a <i>light brown</i> crayon when directed to color the girl's hair a <i>lighter shade</i> of <i>brown</i>. Child points to her skirt and says to a friend, "We match" – both children are wearing <i>pink</i> skirts. As the sun sets, the child says, "The sun is <i>fading</i>."
	<i>properties</i> such as frequency, pressure, temperature, and strength, and/or descriptions of an <i>expected standard, level, or grade</i> (e.g.,

Big Idea	Definition and Examples
	 child's communication efforts are intelligible, child is able to effectively manipulate objects) of objects, people, and/or events. In other words – "how well" a child demonstrates. o Children demonstrate understanding of concepts and terms such as, funny, charming, boring, shy, assertive, confident, sharp, flat, loud, gentle, powerful, weak, hard, soft, runny, stiff, fast, slow, swift, hot, cold, warm, clean, dirty, wet, dry, sweet, sour, salty, bitter, understandable, correctly, completely, independently, accurately, and quickly.
	Examples:
	 Child says, "You are <i>funny</i>!" Child <i>lowers</i> voice when told to speak <i>softly</i>. Child asks to wash her hands after painting with shaving cream. After being asked if their lunch is too <i>hot</i>, the child says "No." Child <i>completes</i> a 5-piece puzzle. The child repeats her answer to the question to better pronounce her words when the teacher is unsure what she said Child <i>independently</i> washes hands before coming to snack. Child recites the letters of the alphabet in <i>correct</i> order. Child describes a rafting trip with their family and tells others how sometimes the water was <i>fast</i> and sometimes it was <i>slow</i>. Child puckers lips and cheeks after tasting a lime. Child holds pencil with enough force to be able to draw and erase. Shape characteristics describe the <i>outline or form</i> of a defined area (i.e., the length and width). Children demonstrate understanding of concepts and terms such as circle, oval, square, rectangle, octagon, rhombus, hexagon, twist, spiral, edge, face, vertex, corner, angle, vertical, horizontal, round, side, curved lines, and straight lines. Includes three-dimensional shapes (e.g., cones, pyramids, cubes, and spheres).
	Examples:
	 Child says, "I drew a <i>straight line</i>!" When asked, the child points to the <i>circle</i> and then the <i>square</i>. Child uses a <i>circle</i> for the face, a <i>rectangle</i> for the body, and <i>lines</i> for arms and legs when drawing a picture of their sister. Child says, "It doesn't look like an ice cream <i>cone</i>" after looking to see what a friend drew. Child says, "It's a <i>circle</i> because it doesn't have <i>straight lines</i>." Child says, "The <i>pointy</i> one." when asked which is the <i>triangle</i>. Child creates a <i>diagonal</i> road with blocks to connect two buildings. Child writes name from left to write on a <i>horizontal</i> plane. Child discusses with a small group why certain shapes belong and why others do not.
	• <u>texture</u> characteristics describe the <i>look or feel</i> of a surface or

Big Idea	Definition and Examples
	 substance. Children demonstrate understanding of concepts and terms such as bumpy, smooth, rough, lumpy, gritty, scratchy, rippled, jagged, sandy, cracked, mushy, prickly, coarse, fuzzy, fury, and grainy.
	Examples:
	 Child withdraws their hand after reaching out to pet an animal with a <i>prickly</i> coat. Child says, "My bag is <i>lumpy</i>." Child says, "I like dogs that are <i>fury</i>." Child hugs a stuffed animal that is <i>soft</i> and <i>fuzzy</i> and rubs face on the animal while smiling. Child says, "I need something <i>scratchy</i> to help me get this off." Child says, "Oh, these stones are so <i>smooth</i>." Child cuts out a sun with <i>jagged</i> lines to represent the sunrays. Child says, "I don't like it when my cereal is <i>mushy</i>." Child sorts fabrics that are <i>smooth</i> from those that are <i>scratchy</i>. Child pokes stick in puddle of water and says, "Look at the <i>ripples</i>."
Function	Function represents knowing the intention of <i>objects</i> , <i>roles</i> , <i>rules</i> , and
(intention)	<u>social norms</u> for the families, groups, communities, and cultures in which children belong/participate
	• <u><i>objects</i></u> include tools, devices, materials, mediums, toys, body parts, modes of transportation, and structures.
	Examples:
	 Child uses <i>rulers</i> to measure the height of a block structure. Child says, "I need a <i>blanket</i> to cover my baby, she is cold." Child answers, "<i>Bike</i>!" when asked what they can ride outside. Child says, "<i>Grocery store</i>." When asked which building in the community contains food. Child puts <i>hat</i> on head when getting ready to go outside. Child creates a pretend <i>train</i> by lining up chairs and directing children to come aboard.
	 Child looks at <i>clock</i> when the teacher asks what time it is. Child uses <i>legs</i> to walk across the room and line up.
	 Child goes to the <i>water fountain</i> to refill <i>water bottle</i>. Child makes a <i>card</i> for his friend's birthday.
	Child tosses a <i>ball</i> to their friend.
	• Child records observations from the playground on a <i>graph</i> .
	• <u>roles</u> include the <i>expected</i> , <i>assigned</i> , <i>or assumed behaviors</i> , <i>characteristics</i> , <i>or responsibilities</i> of the child or other individuals.
	Examples:
	 Child knows the roles of family members (e.g., Mom, Auntie). Child says, "One writes and one draws." When asked the difference between the responsibilities of an author and an illustrator. Child takes on the role of a puppy during cooperative play. Child points to a picture of his mother when asked, "Who picks you

Big Idea	Definition and Examples
	 up after school?" Child helps a younger child walk outside by holding his hand. Child says, "That chair is for the teacher." Child points to the clown when asked, "Who makes you laugh?" Child makes sure to place the appropriate felt pieces on the board while the teacher reads the story to the class. Child states that farmers grow the food his mom bought at the store. Child informs the teacher that he will make sure that everyone gets a napkin when it is his turn to be snack helper.
	(<i>written or spoken</i>) at home, at school, and in the community.
	Examples:
	 Child knows to run on the playground but not inside the classroom. Child identifies that car and jar rhyme, but car does not rhyme with mat because it doesn't end with the same sound. Child knows when writing in English, to start at the left side of the paper, use a capital letter for the start of sentences, and to leave space between sentences. Child crosses the street holding onto her teacher's hand and when the WALK signal is displayed. Child raises his hand when he has a question. Child shares toys with peers during free play. When speaking in English, the child describes nouns with the adjective before the noun. When working on a puzzle, child follows the classroom rule to put all of the pieces together before beginning another puzzle. Child turns the book right side up when she picks it up from the pile. Child knows eating too many sweets can be bad for their teeth. Social norms include patterns of shared, expected, or common behaviors or beliefs among a group. Social norms indicate what is acceptable and can exist even if unstated.
	Examples:
	 Child says, "We are celebrating my birthday this weekend." Child says, "Thank you." after a friend gives them a bottle of glue. Child covers mouth when they cough. Child smiles in response to a smile from the teacher. Child waits to describe what he built in the block area until his teacher finishes her question to him. Child shares that his family stays home for Christmas, but his friend's family goes to the beach. Child hugs her mom when dropped off at school and gives her teacher a high five as a greeting. The child states, "We don't wear our shoes in our house." After the child is done eating, he recycles his plastic yogurt cup and throws his napkin in the trash.
Labels	Child explains he calls his father "Papa". Labels represent ways to address, name, and identify objects, people.

Big Idea	Definition and Examples
(vocabulary words)	and/or places/events. Labels allow children to catalog, classify, search, and
	assign values/tags.
	 Body Parts (e.g., head, shoulder, elbow, cheek, eyes, toes) Emotions (e.g., happy, sad, mad, embarrassed, scared) Events (e.g., County fair, Festival, Birthday, Christmas, Hanukkah, Kwanza, Anniversary, Spring Break, Bah Mitzvah, vacation) Letter Tags (a, b, c, A, B, C) Locations (e.g., school, home, church, gym, bank, store, park, McDonalds, farm, train station) Number Tags (1, 2, 3, 13, 14, 20, 21) Objects (e.g., pen, block, iPad, cup, shoes, paint brushes, camera, table, light, shelf, clock) Physical states (e.g., tired, hungry, hurt, wound up, excited, calm) Similar Actions (e.g., walk, prance, march or bend, stretch, twist) Titles (e.g., Mother, Father, Aunt, Police Officer, Teacher, Friend) Types of: animals (e.g., dog, snake, elephant, zebra, bird, tiger) buildings (e.g., church, bank, school, mall, library, store) clothes (e.g., school day, Monday, weekend, holiday) food (e.g., cheese, crackers, apple, kiwi, water, milk, rice, chicken, potatoes, carrots, beans) locations (e.g., park, classroom, bathroom, bus stop) sounds (e.g., environmental, animal, language, musical) transportation (train, bus, car, subway, airplane, bike, scooter, skateboard, roller skates)
	Examples:
Reliance (causal relationships)	 Child sorts all the printed letters from the printed numerals. Child says, "I'm tired" after running across the playground. Child says, "Mom, can I play a game on your iPad?" Child listens to different sounds and states that they heard a siren, thunder, barking dog, and a horn. Upon request, the child puts the cars in one pile and the bikes in another. Child makes a map and labels the area designated for the zoo, the grocery store, and their house. Child touches associated body parts while singing "Head, Shoulders, Knees, and Toes." Child shares that she has pasta, fruit, and cheese for lunch. Child identifies the room numbers on each door. Child names each of the main characters in the book. Reliance allows children to understand there are interdependencies and interconnectedness between objects, people, and/or events.
	Reliance represents the causal relationship/effects between actions or events including <i>physical</i> , <i>biological</i> , <i>and/</i> or <i>personal/social</i>

Big Idea	Definition and Examples
	• <u><i>physical</i></u> reliance includes knowing the <i>results of scientific laws or principles</i> such as those related to gravity, relativity, energy, motion, magnetics, mechanics, speed, chemical processes, and transformations.
	Examples
	 Child knows what happens to water at different temperatures. Child uses a magnet to pick up paperclips at the art table. Child observes that when he picks leaves from the tree, they dry out. Child observes that when the sun comes out after it stops raining, a rainbow appears. Child understands that when he reuses materials, he is saving energy. Child states, "It is really cold it will probably snow." Child says, "Put it in the microwave if you want hot soup." Child pounds hammer harder when peg won't go through the hole. Child holds arms out in a "T" as he walk across a balance beam. Child says, "Car.", when asked, "Which will finish first, the driver in the car, or the person riding the trike?"
	• <u>biological</u> reliance includes knowing how living organisms (e.g., people, plants, animals) <i>interrelate, evolve/grow, transmit, share, and/or are influenced</i> . Can include how a child's own feelings and perceptions impact their actions.
	Examples:
	 Child knows they have blue eyes like their Dad. Child knows eating vegetables helps strengthen their bodies. Child knows to use a tissue or sneeze into the crook of their arm to avoid the spread of colds. Child says, "I am thirsty" and stops to get a drink. Child explains that when he is hot his head gets sweaty. Child says, "I had a fever, I was sick." Child understands that exercise is good for his body. Child says, "I am tired." when is it naptime. Child states, "I am big like my brother Jose." Child feels confident and tries to tie their shoes laces without help. Child knows they are safe when the mom is nearby so they take another step up on the ladder. Child knows they need to use the bathroom, and asks the teacher to take them.
	• <u>personal/social</u> reliance includes knowing the <i>consequences of</i> one's choices and actions, the ability to identify with and understand someone else's feelings, knowing that desires, emotions, and beliefs <i>cause human action</i> , and knowing there is a <i>dependence</i> between people and groups.

Big Idea	Definition and Examples
	Examples:
	 Child answers an adult's question about why another child is crying. Child asks an adult to help in order to reach a desired toy. Child explains to adult, "We shared the dolls because other kids wanted to play." Child makes enough cookies to ensure each person gets one at snack. Child runs to his teacher when he is scared by a loud sound coming from outside Child tells his friend "If you ask the teacher for help, she will get down the new blocks for you." Child understands that throwing his toy made the block tower fall. Child says, "My mom is at work but she will be back." Child separates her playdough, gives some to another child and says, "You can play with me." Child discusses the importance of conserving water so there will be enough for everyone.

11 Process Big Ideas What Children Do – Use of Knowledge



Big Idea	Definition and Examples
Classifying (grouping/sorting)	Classifying is the ability to group/sort animals, events, objects, people, sounds, etc., based upon various attributes .
	Children demonstrate an ability to classify using knowledge of <i>color</i> , <i>quality</i> , <i>shape</i> , and <i>texture</i> concepts and terms. Children can also classify using <i>criteria</i> such as <i>function or categories</i> .
	Examples:
Comparing and Contrasting (relating)	 Child tells a friend that one pile of action figures are the good guys and one pile are the bad guys. Child gets all the cookbooks from the library and brings them to the housekeeping area. Child says, "I put all the dirty dishes in the sink." Child sorts the square blocks from the triangle blocks and the plastic blocks from the wooden blocks. Child identifies which items are worn in warm weather versus in cold weather. Child sorts goldfish by color during snack. Child says, "The frog and the lizard feel slimy." Child taps each of the girls on the head during circle, and says, "Come with me." Child separates the cards with written numerals from written letters. Comparing and contrasting is the ability to associate, relate, or recognize the similarities and differences of individual or sets of sounds, objects, people, and/or events.
	Examples:
	 Child discusses which shoe is the <i>longest</i> and <i>shortest</i>. Child compares the apples and determines the red is <i>sweeter than</i> the green. Child steps in a puddle and states, "My shoes are <i>dirty</i>, and yours are <i>clean</i>." Child says to a friend, "In baseball, you throw the ball but in soccer you kick the ball. Child hears birds chirping on a nature walk and states that it sounds like the class's pet bird. Child looks at her glass of milk and others' glasses in the classroom and states, "I have <i>less</i> milk than everyone else." The teacher asks, "Which word does not rhyme with stitch: witch, pitch, or cat?" and child says, "Cat." Child describes how the illustrator's pictures are the <i>same</i> in two books. Child indicates that his friend is <i>taller</i> than he is. Child describes how the plant needs water to grow, but rocks are different and do not.
(understanding and	understands information AND uses/acts upon the information. Children

Big Idea	Definition and Examples
acting)	use or act upon information recalled, verbally (e.g., asking and answering questions, telling) and non-verbally (e.g., following directions, matching, imitating).
	Examples:
Creating (generating)	 Child answers questions about what happened to the puppy in the story read during snack. Child understands they have to wait their turn. Child hugs a friend who is crying. Child walks around the structures being built on the floor with blocks instead of walking through the structures. During a game of Simon says, the child stands when Simon says, jumps when Simon says, and twirls when Simon says. Child remembers to put the words in the correct order when commenting on the roles each child will play while pretending to grocery shop. Child chooses between 3 song options when asked by a teacher, "Which song do you want to sing today?" Child moves his/her name card to "Here Today" upon entering classroom. After the teacher demonstrates, the child shows a friend how to blow bubbles while on the playground. Child states why her friend is crying. Child states why her friend is crying. Child says, "I know my ABC's – A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, and Z." After reading a story, the child places yellow cards with pictures from the story in the order of events and then walks along the "yellow brick road". Child follows directions to stretch out before running around the gym. Child rontinues to rotate pieces of a puzzle until they fit properly. Creating is when children demonstrate the ability to design, produce, and/or construct new "things" (e.g., objects, images, words, events, ideas, perspectives). New "things" can be generated by connecting new information with past experiences or by changing something that exists but changing how it appears or is used. Children create by extending and during something that exists but changing how it appears or is used. Children create by extending and during something that exists but changing how it appears or is used. Children create by extending and during something that exists but changing h
	modifying not by directly imitating or recreating something that already exists.
	Examples:
	 A group of children introduce the rules and materials to a new game. Child makes upon words to a song. Child suggests a new use for plastic bottles. Child constructs a new sign to indicate that it is playtime. Child generates new ideas for activities to add to the classroom schedule. Child uses the buckets containing the outside balls to build a fort. Child composes a book entitled "My Favorite Dinosaurs". Child initiates an idea of helping a classroom friend in need. Child creates a chart to record the number of times they bounced a ball. Child creates a pattern of things to cut with and things to draw with (e.g., places a pair of scissors, then a crayon, scissors, then a crayon, scissors etc.). After the teacher says, "She sells sea-shells on the sea-shore", the child says, "Try saying, "She sows seeds" three times fast."

Big Idea	Definition and Examples
Inquiry (exploring)	Inquiry is when children demonstrate the ability to explore topics, situations, materials, and/or experiences using multiple senses. Inquiry doesn't require a clear problem to solve but rather actions taken to investigate, build from, and/or learn more about.
	Children demonstrate inquiry by observing , gathering (e.g., asking "wh" questions, asking "how" questions, requesting information), documenting , interacting , searching , analyzing and/or theorizing .
	Examples:
	 Child says, "I wonder what will happen if I mix red and blue paint." Child uses magnifying glass to inspect the bug crawling on the sidewalk. Child takes an old radio apart to see what it looks like inside. Child asks, "How do clouds move across the sky?" Child observes how different plants have differing needs (sun vs. shade). Child asks, "Why is the ant hill bigger today than it was yesterday?" Child records the number of fish in the tank. Child asks each of the other children what they hope they'll have for lunch. Child digs through the toy box in search of an extra shovel. Child squats down to see what might be living under a pile of rocks. Child says, "I think it will break if you drop it." Child gathers all the books and sorts the hard covered books from the soft covered books to see which they have more of.
One to One	One to one is the ability to pair a label/name, symbol, or action of one
(pairing)	object, person, and/or event to another.
	Examples:
	 Child names each animal in the book. Child says, "I go first, then Sam, then Kennedy." Child gives each classmate a cup for water. Child counts the number of cars on the rug, "One, two, three, four, five, six." Child selects each item from a recipe list and adds the ingredients one at a time to a bowl to make soup. Child indicates that play and clay have the same ending sound. Child pairs the written word zebra with a picture of the animal. Child chants and claps the syllables in classmates' names. Child identifies the emotion each character is feeling while reading. Child matches the pitch of an "A" on a keyboard and a guitar.
Problem Solving	Problem solving is the ability to address a situation by completing one or
(finding solutions)	all of the following steps: 1) recognizing the problem, 2) thinking of
	possible solutions, 3) carrying out solutions, and/or 4) evaluating the
	outcome.
	Examples:
	• Child completes a task by asking for help.
	• Child gets more chairs when there are more children than seats.
	• Child determines how many cookies they would have if given three more.
	Child determines the meaning of unfamiliar words using pictures on the page.

Big Idea	Definition and Examples
	 Child identifies why using a piece of paper will not soak up spilled juice like a paper towel. Child proposes a few options when deciding who gets the toy next. Child places the large blocks on the bottom of the structure so it doesn't fall. Child states several reasons why children are getting hurt while playing and generates ideas of how they can help keep the classroom safe. Child identifies the number of pumpkins on the table when one is added. Child adds a cup for a child who joined snack and removes the extra plate. Child determines that next time they might want to pour water into the class pet's water bowl using a funnel so they spill less. Child says, "I'll try to jump higher.", when reaching for a toy on a top shelf. Child tells her friend "Keep your eye on the ball and swing slower." Child steers a trike around obstacles on the playground.
Reasoning	Reasoning is the ability to make inferences, make predictions, give
(explanation)	explanations, and/or draw conclusions. Children also demonstrate
	reasoning when they understand why certain outcomes result from certain
	actions or thoughts.
	Examples:
	• Child <i>explains why</i> they don't need to wear a hat outside today.
	• Child <i>infers</i> that the lack of rain is because there are fewer cloudy days on the
	graph.
	• Child <i>realizes</i> that if they put one more block on the tower, the whole thing
	• Child suggests that if more shildren join the send table, there will not be
	• Child suspects that if more children join the sand table, there will not be enough sand sifters for everyone
	 Child <i>describes how</i> the cake batter will change when it is cooked <i>because</i> of
	the heat from the oven.
	• Child <i>concludes why</i> animals have to live in different habitats.
	• Child <i>explains</i> the order in which the puzzle should be put together.
	• Child <i>says</i> , "The snowman will melt because of the heat!", when ask what
	will happen if the snowman is brought from the playground into the
	• Child daterminas "I'm the tallest how in the class because I can see the tons
	of vour heads."
	• Child runs to open the door as others carry the play equipment inside <i>knowing</i> they need help.
Segmenting and	Segmenting and Blending is the ability to separate, split up, or
Blending	disassemble a <i>whole into portions or parts</i> and/or put together. combine .
(whole to parts and	mix. or assemble portions or parts into a whole
parts to whole)	
radio to madro)	Examples:
	· ·
	• Child separates each sound or syllable in a word by saying h/o/p for "hop" or
	ham-bur-ger for "hamburger."
	• Child distributes a larger set of objects into two smaller sets.
	 Unital separates words with spaces to make a sentence. Child combines red and blue paint to make purple.
	 Clinic combines red and blue paille to make purple. Child mixes flour eags water and blueberries to make muffins
	 Child puts together or takes apart a puzzle.

Big Idea	Definition and Examples
	 Child says, "Five.", when asked how many does 2+3 makes. Child takes back a ball and says, "You already have one." While writing a note to their Grandma, child puts the letters A L E X together to spell his name – Alex. Child breaks apart Lego pieces.
Sequencing	Sequencing is the ability to imitate, re-create, exchange, or extend
(ordering)	patterns and/or series. Children also sequence by following/giving multiple
	step directions.
	Examples:
	 Teacher asks a child to count to 5, child responds by saying, "1,2,3,4,5." After a model, child claps loudly, then claps softly, then claps loudly, then claps softly, etc.
	• Child organizes the largest plate on the bottom and then stacks plates of decreasing size on top.
	• Child arranges peers' name cards in the order they will play the game.
	 Adult tells a three-part story and child retells the story by putting photographs in correct sequence
	 Child follows a picture schedule with three icons showing removal of
	coat, placement of lunchbox on counter, and selection of a toy.
	• Child answers "I oday is Monday and it's cold outside" to an adult's direction to identify the day of the week and the weather outside
	 Child adds three colored blocks to the pattern created by a peer.
	• Child says, "I'll go first, you can go second, and you can go last."
	• Child says, "I will play in the kitchen, then in the blocks, and then in the library." Child then follows through with the plan
Symbolizing	Symbolizing is the ability to use words, objects, people, pictures, icons,
(representing)	characters, or labels to take the place of and/or represent another event,
(1 1 1	idea, emotion, location, object, or person.
	Examples:
	 Child makes roads, buildings, and bodies of water using different colored blocks. Child draws a map of the roads from his house to school
	 Child tells a story about making a snowman and draws a picture and
	writes "snow" under the picture with his own symbols for snowman.
	• Child takes on the role of the doctor, and tells the other children to be the
	 patient and the nurse, and then pretends to write prescriptions. Child says "I'm excited it is my turn "
	 Child suys, Thi excited it is my turn. Child creates a sign to place on his art project to show that he is still
	working on it.
	• Child draws a picture of the different colored leaves on the tree.
	 Child stacks blocks to measure how tall he is. Child nicks up a cube block and save it looks like a box
	 Child pretends to be Goldilocks while acting out the story.
	• Child uses letters and shapes to "write" down each child's lunch order.

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