

Guidelines for Massachusetts Department of Education

Standards Related to the Use of Natural Clay, adapted by Kathleen Bailer

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Language	Mathematics	Science & Technology /Engineering	History & Social Science	Health Education & Physical Development	Arts
<p>1. Observe and use appropriate ways of interacting in a group (taking turns in talking; listening to peers; waiting until someone is finished; asking questions and waiting for an answer; gaining the floor in appropriate ways).</p> <p>2. Participate actively in discussions, listen to the ideas of others, and ask and answer relevant questions.</p> <p>3. Communicate personal experiences or interests.</p> <p>4. Engage in play experiences that involve naming and sorting common words into various classifications</p>	<p>Number Sense</p> <p>1. Listen to and say the names of numbers in meaningful contexts.</p> <p>2. Connect many kinds/quantities of concrete objects and actions to numbers.</p> <p>3. Use positional language and ordinal numbers (first, second, third) in everyday activities.</p> <p>4. Use concrete objects to solve simple addition and subtraction problems using comparative language (more than, fewer than, same number of).</p> <p>Patterns & Relations</p>	<p>Inquiry Skills</p> <p>1. Ask and seek out answers to questions about objects and events with the assistance of interested adults.</p> <p>2. Make predictions about changes in materials or objects based on past experience.</p> <p>3. Identify and use simple tools appropriately to extend observations.</p> <p>4. Record observations and share ideas through simple forms of representation such as drawings.</p> <p>Earth & Space Sciences</p>	<p>2. Discuss and use vocabulary related to time in relevant activities.</p> <p>3. Identify and describe cause and effect as they relate to personal experiences and age-appropriate stories.</p> <p>4. Engage in activities that build understanding of words for location and direction.</p> <p>5. Construct and describe simple maps of their immediate neighborhood.</p>	<p>2. Build body awareness, strength, and coordination through locomotion activities.</p> <p>4. Build awareness of directionality and position in space.</p> <p>5. Use both sides of the body to strengthen bilateral coordination.</p> <p>7. Build upper body strength and stability to gain controlled movement of shoulders.</p> <p>8. Strengthen hand grasp and flexibility</p> <p>9. Use thumb/forefinger in pincer grasp.</p> <p>10. Use a variety of tools and materials to build grasp-and-</p>	<p>1. Explore activities and vocabulary related to movement, balance, strength, and flexibility.</p> <p>10. Sing songs with repetitive phrases and rhythmic patterns.</p> <p>17. Create scenarios, props, and settings for dramatizations and dramatic play.</p> <p>18. Explore a variety of age-appropriate materials and media to create two and three-dimensional artwork.</p> <p>19. Observe the safe and appropriate use and care of art materials.</p> <p>23. Experiment with the use of texture in</p>

<p>using general and specific language.</p> <p>5. Listen to and use formal and informal language.</p> <p>7. Develop familiarity with the forms of alphabet letters, awareness of print, and letter forms.</p> <p>Reading & Literature</p> <p>11. Listen to several books by the same author or using the same illustrator. (Create their own stories or illustrations similar to those read to them [e.g., create collages after hearing a story by Eric Carle].)</p> <p>15. Listen to, recognize, and use a broad vocabulary of sensory words.</p> <p>16. Use their own words or illustrations to describe their experiences, tell imaginative stories, or communicate information about a topic of interest.</p> <p>18. Use emergent writing skills to make letters in many settings</p>	<p>7. Explore and describe a wide variety of concrete objects by their attributes.</p> <p>Shapes & Spatial Sense</p> <p>10. Investigate and identify materials of various shapes, using appropriate language.</p> <p>11. Explore and identify space, direction, movement, relative position, and size using body movement and concrete objects.</p> <p>12. Listen to and use comparative words to describe the relationships of objects to one another.</p> <p>Measurement</p> <p>13. Use estimation in meaningful ways and follow up by verifying the accuracy of estimations.</p> <p>14. Use nonstandard units to measure length, weight, and amount of content in familiar objects.</p>	<p>5. Compare and contrast natural materials such as water, rocks, soil, and living organisms using descriptive language.</p> <p>6. Explore and discuss what air is or does (air takes up space inside bubbles and beach balls; air can move things; air can support things such as parachutes and kites).</p> <p>Life Sciences</p> <p>14. Describe or represent living things that inhabited the earth years ago, as children express interest.</p> <p>Living Things & Their Environment</p> <p>15. Use their senses of sight, hearing, touch, smell, and taste to explore their environment using sensory vocabulary.</p> <p>17. Observe and describe how natural habitats provide for the basic needs of</p>		<p>release skill.</p> <p>11. Build finger dexterity.</p> <p>12. Use eye-hand coordination, visual perception and tracking, and visual motor skills in play activities.</p> <p>16. Recognize and describe or represent emotions such as happiness, surprise, anger, fear, sadness.</p> <p>17. Talk about ways to solve or prevent problems and discuss situations that illustrate that actions have consequences.</p> <p>19. Practice independence and self-help skills.</p> <p>20. Describe members of their family and discuss what parents do for their children to keep them safe and healthy.</p> <p>Social & Emotional Health</p> <p>21. Discuss strategies to prevent injury and illness, control the spread of disease, and promote</p>	<p>artwork.</p> <p>24. Use basic shapes and forms of different sizes to create artwork.</p> <p>25. Explore concepts of pattern and symmetry in the environment and artwork.</p> <p>26. Create artwork from memory or imagination.</p> <p>27. Choose artwork for display in the classroom, school or community or for a personal book, class book or portfolio, and explain why they chose it.</p>
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<p>and for many purposes.</p> <p>19. Arrange events in order when dictating a story.</p> <p>20. Generate questions and gather information to answer their questions in various ways.</p>		<p>plants and animals with respect to shelter, food, water, air, and light.</p> <p>Physical Sciences</p> <p>18. Manipulate a wide variety of familiar and unfamiliar objects to observe, describe, and compare their properties using appropriate language.</p> <p>19. Explore, describe, and compare the properties of liquids and solids found in children’s daily environment.</p> <p>21. Explore and describe various actions that can change an object’s motion such as pulling, pushing, twisting, rolling, and throwing.</p> <p>22. Experiment with a variety of objects to determine when the objects can stand and ways that objects can be balanced.</p> <p>Technology & Engineering</p> <p>23. Explore and</p>		<p>cleanliness.</p>	
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		<p>describe a wide variety of natural and man-made materials through sensory experiences.</p> <p>24. Demonstrate and explain the safe and proper use of tools and materials.</p> <p>25. Explore and identify simple machines such as ramps, gears, wheels, pulleys, and levers through play experiences.</p>			
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