



ISE GRADE ONE SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p data-bbox="255 312 651 344"><u>Topic Two: Solids and Liquids</u></p> <p data-bbox="255 379 338 411">Solids</p> <ul data-bbox="315 448 808 887" style="list-style-type: none">• Solids are one state of matter• Solid materials have properties that separate them from other states of matter• We Use our senses to observe the properties of solids• Solids can be sorted by their properties• Solids have distinct uses based on their properties• Engineers are scientists who use their knowledge of materials to design useful objects and structures <p data-bbox="255 922 360 954">Liquids</p> <ul data-bbox="315 991 775 1286" style="list-style-type: none">• Liquids have many properties• Liquids pour and flow• Liquids take the shape of their container• The surface of liquid is level with respect to the ground• Solids and liquids have distinct properties that separate them as two states of matter	<ul data-bbox="891 448 1379 1326" style="list-style-type: none">• Explore a number of different solid materials• Describe properties of solid materials• Recognize solids as different from other states of matter• Sort solids by the properties• Describe how the properties of solid materials can have specific uses in construction • Observe the properties of a variety of liquid materials• Record information about properties of liquids• Play games to practice vocabulary associated with liquids• Investigate and record the level nature of liquid as it flows from one stable position to another• Investigate the appearance and	<ul data-bbox="1473 448 1872 512" style="list-style-type: none">• FOSS Kit: Solids and Liquids• Library Books: (See list)



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<p>Bits and Pieces</p> <ul style="list-style-type: none">• Solids materials come in all sizes and shapes• Particles of solid materials can pour like liquids, but maintain their shape• Solid materials can support denser materials on their surface• Solid particles can be separated with a screen <p>Solids and Liquids with Water</p> <ul style="list-style-type: none">• Solids change, remain unchanged, or dissolve when mixed with water• Water can be separated from a mixture through evaporation• Some liquids mix with water, others form a layer above or below water• Some materials have properties of both solids and liquids• Scientists test materials in many ways in order to compare them to what is known	<p>behavior of liquids in containers</p> <ul style="list-style-type: none">• Develop definitions of solids and liquids based on their observations and comparisons <ul style="list-style-type: none">• Experience solid materials as pieces, grains, and particles• Observe the behavior of small solids in various settings• Combine and separate solid materials of different particle sizes• Compare the behavior of solids and liquids in similar settings <ul style="list-style-type: none">• Observe what happens when solids and water are mixed• Observe what happens when liquids and water are mixed• Organize observations of mixtures• Conduct an investigation to determine if toothpaste is solid or liquid	