



ISE GRADE ONE SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p data-bbox="255 316 719 343"><u>Topic Three: Pebbles, Sand and Silt</u></p> <p data-bbox="255 384 405 411">First Rocks</p> <ul data-bbox="309 451 813 683" style="list-style-type: none">• Rocks are the solid material of the earth• Rocks have a variety of properties, including color, hardness, shape and size• Rocks can be sorted by their properties• Rocks are all around us <p data-bbox="255 722 412 750">River Rocks</p> <ul data-bbox="309 790 797 957" style="list-style-type: none">• Rocks can be categorized by size• Screens and water can be used to sort the sizes of earth materials• Rock sizes include clay, silt, sand, gravel, and pebbles	<ul data-bbox="891 451 1384 1125" style="list-style-type: none">• Observe several different kinds of rocks• Compare properties of different rocks• Sort rocks in different ways• Observe rocks interacting with each other and with water • Explore a river rock mixture containing earth material particles of various sizes• Use screens to separate and group river rocks by particle size• Investigate properties of pebbles, gravel, sand, silt, and clay particles• Separate sand and silt using water• Explore the properties of dry and wet clay particles	<ul data-bbox="1473 451 1917 515" style="list-style-type: none">• FOSS Kit: Pebbles, Sand and Silt• Library Books: (See list)



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<p>Using Rocks</p> <ul style="list-style-type: none">• Earth materials are natural resources• The properties of different earth materials make each suitable for specific uses• Earth materials are commonly used in the construction of buildings and streets <p>Soil Explorations</p> <ul style="list-style-type: none">• Soil is a mixture of earth materials• Humus is decayed material from plants and animals• The ingredients of soil can be observed by mixing soil with water, shaking it and letting it settle• Soils vary from place to place• Soils have properties of color and texture• Soils differ in their ability to support plants	<ul style="list-style-type: none">• Explore places where earth materials are naturally found and ways that earth materials are used• Observe and compare different grades of sandpaper• Use sand to make sculptures and clay to make beads, jewelry, and bricks• Search for earth materials outside the classroom <ul style="list-style-type: none">• Make a mixture of earth materials to create soil• Use screens to separate the components in a soil mixture• Observe and record the results of shaking soil and water in a vial• Find and collect samples of soil outside the classroom	