



ISE GRADE 3 SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><u>Topic Three: Earth Materials</u></p> <p>Mock Rocks</p> <ul style="list-style-type: none">Record and discuss observations about rocks.Compare observations.Take apart a mixture by separating ingredients.Observe and describe how rock materials separate and settle in water.Observe the results of evaporation. <p>Scratch Test</p> <ul style="list-style-type: none">Observe the properties of a group of minerals.Record properties of minerals.Organize observations.Seriate minerals based on hardness. <p>Calcite Quest</p> <ul style="list-style-type: none">Observe directly and indirectly the special properties of a mineral.Observe and record results of an investigation.Compare results.Identify one ingredient from a mixture.	<ul style="list-style-type: none">Use measuring tools to gather data about mock rocks.Observe that rocks can be broken down into different ingredients called minerals.Observe that some ingredients dissolve in water.Observe that dissolved ingredients reappear as crystals when water evaporates.Identify some ingredients by their crystalline shapes or patterns. <ul style="list-style-type: none">Explore the properties of a group of minerals.Investigate the hardness of minerals.Seriate minerals according to hardness. <ul style="list-style-type: none">Investigate four rocks to find out if they contain calcite.Observe fizzing when the mineral calcite is put into vinegar.Observe and compare the results of evaporation.	<ul style="list-style-type: none">Full Option System Science (FOSS) Teacher's Guide.Library Books (see list)Videos (see list)Internet



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<p>Take it for Granite</p> <ul style="list-style-type: none">• Observe properties of a rock and several minerals.• Sort objects according to properties.• Record observations.• Compare observations of properties.	<ul style="list-style-type: none">• Observe and review properties of rocks and minerals.• Organize a set of samples by sorting rocks and minerals.• Analyze a graphite sample to determine which minerals are present.• Communicate evidence of the minerals in granite.• Plan and conduct investigations chosen by the students.• Communicate results of student investigations to the class.	
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