

DEPARTMENT: SCIENCE	UNIT TITLE: STORIES IN STONE
GRADE: 4	CURRICULUM CONNECTION : GRADE 2 PEBBLES, SAND AND SILT

SECTION	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S) Grades 3-5
Properties of rocks and minerals	2 lessons	<ul style="list-style-type: none"> The Earth's crust is made of rock. Rocks can be sorted by their properties. The properties of rock as material are somewhat different from the properties of a rock as an object. 	<ul style="list-style-type: none"> Sort and classify rocks by observable properties. Differentiate between objects and materials. 	<ul style="list-style-type: none"> Teacher observation checklist 	PS 1 ESS 1 ., 2., 3.
Crystal structure.	2 lessons	<ul style="list-style-type: none"> Minerals are pure inorganic substances with a crystal structure. 	<ul style="list-style-type: none"> Predict, observe, describe and record results of experiments. 	<ul style="list-style-type: none"> Student worksheet Student product 	ESS 1 ., 2.
Rock formation	4 lessons	<ul style="list-style-type: none"> The categories igneous sedimentary and metamorphic identify the way a rock was formed. 	<ul style="list-style-type: none"> Predict, observe, describe and record results of experiments. Draw conclusions from experimental results. Use evidence to support conclusions. 	<ul style="list-style-type: none"> Student worksheets Teacher observation checklist Quiz 	ESS 1., 3., 4., 5.
Rock cycle	2 lessons	<ul style="list-style-type: none"> Rocks change on the surface of earth by the process of weathering. Rocks change beneath the surface of earth by heat and pressure. 	<ul style="list-style-type: none"> Construct models to understand events. 	<ul style="list-style-type: none"> Teacher observation checklist Written response rubric 	ESS 12.
Rock and mineral testing	2 lessons	<ul style="list-style-type: none"> Geologists use specific tests to identify minerals and rocks. 	<ul style="list-style-type: none"> Conduct standard mineral tests to identify attributes. 	<ul style="list-style-type: none"> Student worksheets 	ESS 2.
Fossils	1 lesson 1 museum visit	<ul style="list-style-type: none"> The history of life is preserved in rock. 	<ul style="list-style-type: none"> Construct models to understand events. 	<ul style="list-style-type: none"> Student worksheets Teacher observation checklist Final quiz 	Grades 6-8 ESS 7

