Science Unit 1: Rocks and Minerals

	There is a vidence of next life, autimation and an incompartal			
E	 There is evidence of past life, extinct species, and environmental 			
Essential	changes.			
Understandings	 Processes change the earth. 			
	 How do we know about past life, extinct species and environmental 			
	changes?			
	How are fossils formed?			
Essential	What is a rock?			
Questions	What are some physical properties of rocks and minerals?			
	How can the physical properties of rocks and minerals change?			
	How does the earth's surface change?			
	The study of rocks and fossils shows past life, extinct species, and			
	environmental changes over time.			
	 Fossils can help us understand how organisms have changed. 			
	 Fossils are formed in sedimentary rocks. 			
Essential	A rock is a naturally formed mineral mass.			
Knowledge	 The physical properties of rocks and minerals are color, texture, 			
,	hardness, shape, reaction to light, streak, etc.			
	 The physical properties of rocks and minerals can change through 			
	erosion, weathering, heat and pressure. (e.g., rocks to sediment to			
	soil; shale to slate.)			
	 The earth's surface undergoes steady or sudden changes due to 			
	forces of wind, water, ice, volcanism, and shifting of tectonic plates.			
	 Terms: 			
	 remis. extinct, fossil, physical change, chemical change 			
	 Rocks: 			
Veeebulenv	 sedimentary, igneous, metamorphic, minerals, 			
Vocabulary	conglomerate, soil			
	 <u>Rock Cycle</u>: rock formation, transformation, weathering, provide 			
	 rock formation, transformation, weathering, erosion, 			
	sediments			
	Physical Properties of Rocks:			
	 color, texture, hardness, shape, reaction to light, streak 			

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	 Explain how fossils are formed. 			
	 Compare fossils to one another and to living organisms. 			
	 Identify kinds of rocks (e.g., igneous, sedimentary and 			
Essential	metamorphic).Identify parts of the rock cycle (e.g., rock formation, transformation)			
Skills				
	weathering, erosion, sediments).			
	 Identify physical properties of minerals. 			
	Science			
	D. The Physical Setting			
	D2.Earth			
	Students describe the properties of Earth's surface materials,			
	the processes that change them, and cycles that affect the			
	Earth.			
Related	c. Explain how wind, waves, water, and ice reshape the			
Maine Learning	surface of Earth.			
Results	d. Describe the kinds of materials that form rocks and soils.			
	E. The Living Environment			
	E5.Evolution			
	Students describe the fossil evidence and present explanations			
	that help us understand why there are differences among and			
	between present and past organisms.			
	b. Compare fossils to one another and to living organisms			
	according to their similarities and differences.			
Sample	 Classify rocks. 			
Lessons	 Make models of rock formations. 			
And	 Sing "Rapid Rock Rap." 			
Activities				
Sample				
Classroom	 Use a Venn diagram to compare fossils and living organisms. 			
Assessment	 Complete a diagram of the rock cycle. 			
Methods				
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	<u>Publications</u> :
	 <u>Album of Rocks and Minerals</u> - Tom McGowen
	 <u>The Hermit Thrush Sings</u> - Susan Butler
	 Janice VanCleave's Rocks and Minerals - Janice Van
	Cleave
Sample	 <u>Rocks and Minerals</u> - David Lambert
Resources	 <u>Rocks and Minerals</u> - Keith Lye
	 <u>Rocks and Minerals</u> - Chris Pellant
	 <u>Rocks and Minerals</u> - Illa Podendorf
	 <u>Rocks and Minerals</u> - Ann Squire
	 <u>Rocks and Minerals</u> - Tracy Staedter
	 <u>Rocks and Minerals</u> - Herbert Zim
	Videos:
	 <u>All About Rocks and Minerals</u>