Science

Brunswick School Department Grade 4 Rocks and Minerals

	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?
Facautial	How are fossils formed? What is a real?
Essential	What is a rock?
Questions	What are some physical properties of rocks and minerals? Use and minerals shapes?
	 How can the physical properties of rocks and minerals change? How does the earth's surface 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.
	■ <u>Terms</u> :
	extinct, fossil, physical change, chemical change
	■ <u>Rocks</u> :
	 sedimentary, igneous, metamorphic, minerals,
Vocabulary	conglomerate, soil
	Rock Cycle: Tools for most in a supplication supplier and the size of a supplier and the size of
	 rock formation, transformation, weathering, erosion, sediments
	 Physical Properties of Rocks: color, texture, hardness, shape, reaction to light, streak
	 color, texture, nardness, snape, reaction to light, streak

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	- Evalois how fossile are formed
	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).
Skills	Identify parts of the rock cycle (e.g., rock formation, transformation,
	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.
Results	
	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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	Publications:
	 Album of Rocks and Minerals - Tom McGowen The Hermit
	Thrush Sings - Susan Butler
	 Janice VanCleave's Rocks and Minerals - Janice Van
	Cleave
Sample	 Rocks and Minerals - David Lambert
Resources	 Rocks and Minerals - Keith Lye
	 Rocks and Minerals - Chris Pellant
	 Rocks and Minerals - Illa Podendorf
	 Rocks and Minerals - Ann Squire
	 Rocks and Minerals - Tracy Staedter
	 Rocks and Minerals - Herbert Zim
	■ <u>Videos</u> :
	 All About Rocks and Minerals