

GEOLOGY

GOALS FOR VISIT

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To help foster an understanding of the earth, its history, its composition and formative processes

Students Will Understand That:	U	Essential Questions	Q
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- The rock cycle is a continuous process where old rocks are transformed into new ones.
- The earth is made up of three major layers, the core, the mantle, and the crust.
- Geologists use the process of scientific inquiry to study the earth and its systems.

- What is Geological Time?
- What is a rock?
- What are our mineral resources?
- What is a fossil?
- What are Plate Tectonics?
- What is the Theory of Continental Drift?
- What is the rock cycle?

Students Will Know:	K	Vocabulary	V
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- The difference between a meteor and a meteorite.
- How minerals are formed.
- The three major classifications of rocks.
- How fossils are formed.
- The different types of rock formations in a cave.

erosion	Pangea
igneous	plate tectonics
geologists	sedimentary
metamorphic	volcano
minerals	weathering

Learning Plan

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Igneous Rocks, Cooling Crystals
 Metamorphic Rock Activities
 Cookie Mining
 Trace Fossils
 Volcano Craft

Puzzling Out Fossils
 Rock Cycle
 KWHL Chart
 Matter Cycles: Rock
 Miners Maze

Supports the Following Arizona State Standards

SS

Science

Strand 1 Inquiry Process, Concept 1, 2, 3, 4
 Strand 2 History and Nature of Science, Concept 1, 2
 Strand 3 Science in Personal and Social Perspective, Concepts 1, 2
 Strand 5 Physical Science, Concept 1
 Strand 6 Earth and Space Science, Concept 1

Math

Strand 1 Number Sense & Operations, Concepts 1, 2
 Strand 2 Data Analysis, Probability, and Discrete Mathematics, Concept 1

** Please note: For information on field trip opportunities and the Educator Resource Guide for this subject please call the Arizona Museum of Natural History's group reservation line at 480-644-3553. Watch for a new and updated packet to be online in the future.*