

Geology

INQUIRY

Process Skills

- _____ Conduct experiments, collect, organize, and analyze data. *EarthG-01*

CONTENT

Introduction to Geography

- _____ Describe the four spheres of the Earth's system and how they interact and change. *EarthG-02*

Cartography

- _____ Use map coordinates and locate designated areas on a map. *EarthG-03*
- _____ Calculate elevation from the contour lines on a map. *EarthG-04*
- _____ Describe how location is determined using a GPS system. *EarthG-05*
- _____ Analyze information related to computer mapping and data systems (GIS mapping) *EarthG-06*

Geochemistry

- _____ Recognize the chemical composition of common rocks and minerals. *EarthG-07*
- _____ Identify characteristics and properties of minerals. *EarthG-08*
- _____ Compare and contrast igneous, sedimentary and metamorphic rocks. *EarthG-09*
- _____ Identify the environmental conditions that formed igneous, sedimentary and metamorphic rocks. *EarthG-10*
- _____ Interpret and summarize the rock cycle. *EarthG-11*

Constructional Forces

- _____ Analyze the theory of plate tectonics. *EarthG-12*
- _____ Summarize the cause and effects of earthquakes. *EarthG-13*
- _____ Compare different characteristics of magma and lava. *EarthG-14*

Destructional Forces

- _____ Differentiate between chemical and mechanical weathering. *EarthG-15*
- _____ Compare and contrast the different agents and types of erosion. *EarthG-16*

Earth's Resources

- _____ Compare and contrast renewable and nonrenewable resources. *EarthG-17*
- _____ Identify ways to conserve groundwater. *EarthG-18*

Earth's History

- _____ Interpret the rock record in terms of correlation of rock strata. *EarthG-19*
- _____ Compare and contrast various absolute and relative dating methods. *EarthG-20*
- _____ Construct a geologic time line with significant tectonic and biological events. *EarthG-21*

CONNECTIONS

Science Practices

- _____ Describe how scientific knowledge and explanations may change with new information over time (e.g., plate tectonics, early warning systems for earthquakes and volcanoes). *EarthG-22*

S/T/S (Science, Technology, Society)

- _____ Identify careers that require a knowledge of geology. *EarthG-23*
- _____ Describe the role of humans in management of the Earth's resources. *EarthG-24*
- _____ Recognize the contributions of scientists of various ethnic and gender groups to our understanding of Geology. *EarthG-25*