

Science 6 Curriculum

1st Quarter:

Earth Sciences:

Meteorology

- a) describe the interactions of matter and energy throughout the lithosphere, hydrosphere, and atmosphere
- b) describe the water cycle, nitrogen cycle, weather, and pollution
- c) Make simple weather predictions based on the changing cloud types associated with frontal systems
- d) Read a weather map to interpret local, regional, & national weather

2nd Quarter:

Earth History & Natural Resources

- a) Identify, define, and integrate natural resources
- a) describe the processes that contribute to the continuous changing of Earth's surface such as earthquakes, erosion, etc.
- b) explain that Earth's capacity to absorb and recycle materials naturally (e.g., smoke, smog, and sewage) can change the environmental quality depending on the length of time involved
- c) describe how landforms are created through a combination of destructive (e.g., weathering and erosion) and constructive processes (e.g. crustal deformation, volcanic eruptions, & deposition of sediment
- d) explain that most major geological events (e.g., earthquakes, volcanic eruptions, hot spots, & mountain building) result from plate motion

3rd Quarter Curriculum:

Space Science

- a) Be able to describe how the positions and motions of the objects in the universe cause predictable and cyclic events
- b) Explain that the universe is composed of vast amounts of matter, most of which is at incomprehensible distance and held together by gravitational force
- c) Describe how the universe is studied by the use of equipment such as telescope, probe, satellites, and spacecraft

4th Quarter:

Geology

- a) explain that rocks are made of one or more minerals
- b) Identify minerals by their characteristic properties
- c) Describe the interior structure of Earth and Earth's crust
- d) Describe the rock cycle and explain that there are sedimentary, igneous, and metamorphic rocks that have distinct properties and are formed in different ways