



Foundations Earth Science

Course Description:

Foundations Earth Science is an elective designed for students in grades 11 – 12. The course examines the physical world, and applies the hands on approach to learning.

Course Expectations:

Foundations Earth Science is a semester course and is worth 1 credit. A textbook is used mainly for homework and background reading. Field guides, on-line resources and models are used during class to study rocks, minerals, landforms, earthquakes and volcanoes and to complete labs.

Course Topics Include:

1. Earth's Matter
 - a. Models of the Earth - Maps and their uses
 - b. Atoms to Minerals – formation, identifying, classifying
 - c. Rocks – formation, identifying, classifying
2. Dynamic Earth
 - a. Plate Tectonics theory, features, and cause & relationships
 - b. Volcanoes features, and cause & relationships
 - c. Earthquakes features, and cause & relationships
 - d. Mountain Building features, and cause & relationships
3. Earth's Changing Surface
 - a. Weathering, Soil and Erosion and the role they play in reshaping the earth.
 - b. Surface Water and the role it plays in reshaping the earth.
 - c. Groundwater and the role it plays in reshaping the earth.
 - d. Glaciers and the role they play in reshaping the earth.
 - e. Wind and the role it plays in reshaping the earth.