

Course Outline

Regents Earth Science

Mrs. Lamoreaux

Course Overview:

This course is a regents level lab class. During the course, labs will be integrated into the course material where appropriate. The course culminates with the Earth Science Regents Exam. Students will be required to complete 30 lab hours of mastery level lab activities. Evidence of such will be kept in a lab folder in the classroom.

Soft Cover Textbook used:

Reviewing Earth Science: The Physical Setting by Thomas McGuire

Hard Cover Textbook used:

Pearson's Earth Science by Tarbuck/Lutgens

Materials required:

Binder style notebook
Index cards
Basic 4-function calculator
Pen, Pencil and highlighter

Topics Included in Course:

- Introduction: Review of past science courses
 - ⊗ Includes graphs, density and percent error
- Chapter 1: Planet Earth
 - ⊗ Shape and structure of earth, locating positions, using and reading topographic maps
- Chapter 2: Minerals & Rocks
 - ⊗ Mineral identification and rock typing and identification
- Chapter 3: Dynamic Crust
 - ⊗ Earth's layers, Earthquakes and volcanoes, continental drift
- Chapter 4: Weathering, Erosion and Deposition
 - ⊗ Formation, movement and deposition of soils
- Chapter 5: Glaciers, Oceans and Landscapes
 - ⊗ NY and Ice Ages, Oceans and Coastal Processes and Landscapes
- Chapter 6: Interpreting Earth's History
 - ⊗ Correlation and sequencing of rock layers, geologic time scale and radioactive dating.
- Chapter 7: Properties of the Atmosphere
 - ⊗ Basics of the atmosphere and weather
- Chapter 8: Weather Systems
 - ⊗ Analyzing weather maps
- Chapter 9: Water Cycle and Climate
 - ⊗ Water cycle and heat energy transfer
- Chapter 10: Earth in Space
 - ⊗ Rotation, revolution, causes of seasons and motions of celestial objects
- Chapter 11: Beyond Planet Earth
 - ⊗ Tides, gravity and big bang theory
- Chapter 12: Environmental Awareness
 - ⊗ Pollution, managing resources