



Online Courses for High School Students
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Course Outline Earth Science

- I. Prologue / Introduction**
 - a. Observation and Inference
 - b. Percent Deviation
 - c. Density and Graphing
- II. Measuring the Earth**
 - a. Latitude and Longitude
 - b. Earth's Shape
 - c. Layers of the Earth
 - d. Maps
- III. Building Blocks of the Earth's Surface**
 - a. Minerals
- IV. Rock Types**
 - a. Igneous Rocks
 - b. Sedimentary Rocks
 - c. Metamorphic Rocks
 - d. Rock Cycle
 - e. Rock Review
- V. Breakdown of the Earth's Surface**
 - a. Weathering
 - b. Soil Formation

- VI. Transport of Earth's Surface Materials**
 - a. Erosion
 - b. Deposition
- VII. Earthquakes and Plate Tectonics**
 - a. Earthquakes
 - b. Plate Tectonics
 - c. Plate Boundaries
- VIII. Geologic History**
 - a. Correlation
 - b. Sequence of Events
 - c. Radioactive Decay
 - d. Geologic History Chart in Reference Tables
- IX. Weather**
 - a. Layers of the Atmosphere
 - b. Conduction, Convection and Radiation
 - c. Pressure
- X. Weather Maps**
 - a. Station Models
 - b. Fronts
 - c. Maps
- XI. Climate**
 - a. Factors Affecting Climate
 - b. Water Cycle
 - c. Landscape Regions
- XII. Astronomy 1**
 - a. Seasons
 - b. Insolation
- XIII. Astronomy 2**
 - a. Heliocentric / Geocentric

- b. Ellipses**
- c. Stars**
- d. Phases of the Moon**