

Earth Science Chapter 1: Study Guide

Section 1

- Definitions

Science

Hypothesis

Data

Observing

Controlled experiment

Scientific theory

Inferring

Variable

Scientific law

Predicting

Manipulated variable

Scientific inquiry

Responding variable

- Know how observing, inferring and predicting play a part in the scientific method
- Be able to list and define each step of the scientific method
- Know the difference between a controlled, manipulated, and responding variable
- Know why controlled experiments are important
- Know the difference between a scientific theory and a scientific law

Section 2

- Definitions

Earth science

Destructive force

Astronomer

System

Geologist

Environmental scientist

Energy

Oceanographer

Constructive force

Meteorologist

- Know the structure of Earth's system including the four spheres of the earth
- Know the types of forces that have helped to shape the earth
- Know what is located in our solar system in relation to the earth
- Know the five branches of Earth science mentioned in the book and what they study
- Know why models are important in Earth science

Section 3

- Definitions

Technology

Engineer

- Know how technology differs from science

Section 4

- Know what students can do to remain safe in the laboratory
- Be able to recognize good safety procedures and bad ones
- Know what should happen if there is an accident in the laboratory
- Know why safety is important to scientists