

## Section 1.1 Outline **SAMPLE**

Your Name

- Objectives: 1) Describe two cultures that contributed to modern scientific study.  
2) Name the four main branches of earth science.  
3) Discuss how Earth scientists help us understand the world around us.

Period

Date

### I What is Earth Science?

Throughout history, certain cultures have wondered about the forces that shaped the earth. These cultures developed myths to explain these forces.

### II.

#### A. The Scientific Study of Earth

1. Ancient peoples used careful observations to scientifically study the earth. (p.5)
  - a. Chinese recorded earthquakes
  - b. Greeks studied rocks and minerals
  - c. Mayans studied the movements of the solar system to create accurate calendars.
2. Earth Science is the study of the earth and the universe around it. (p.5)

#### B. Branches of Earth Science

1. Geology (earth-study) (p.6)
  - a. origin
  - b. history
  - c. structure
2. Oceanography (ocean-study) (p.6)
  - a. Waves, tides & currents
  - b. Ocean floor
  - c. Plant and animal life
3. Meteorology (weather-study) (p.7)
  - a. study of variations in the earth's atmospheric conditions that produce weather
  - b. observation, mapping, collecting data on climate and weather
4. Astronomy (star-study) (p.7)
  - a. Moon, planets, sun, stars and the universe
  - b. Earth based and space based telescopes
5. Environmental Science (p.8)
  - a. The study of humans' interaction with their environment.

#### C. The Importance of Earth Science

1. Natural forces shape the earth
  - a. Forecast natural disasters
  - b. Save lives and property
2. Locate, preserve and protect valuable Natural Resources
3. Understand the relationships between the living and non-living phenomenon

### III. Conclusion

Can you answer the objectives at the beginning of the section? Answer all objectives in complete paragraphs (2-4 sentences). Line up all writing with slight indent (no#/no letters)