

## Chapter 1: Section 1 Directed Reading: Pages 5-8

### Section: What Is Earth Science? (page 5)

1. How did cultures throughout history attempt to explain events such as volcano eruptions, earthquakes, and eclipses?
2. How does modern science attempt to understand Earth and its changing landscape?

### THE SCIENTIFIC STUDY OF EARTH (page 5)

3. Scientists in China began keeping records of earthquakes as early as \_\_\_\_\_ BCE.
4. Based on their observations, the Maya created \_\_\_\_\_.  
a. jewelry. b. calendars. c. books. d. pyramids.
5. Earth science is the scientific study of \_\_\_\_\_.  
a. astrology. b. supernatural phenomena. c. cosmetology. d. Earth and the universe around it.
6. It is assumed in Earth science that causes of natural events or phenomena... \_\_\_\_\_.  
a. can be understood through careful observation and experimentation.  
b. will not be understood until the next century.  
c. can never be fully understood.

### BRANCHES OF EARTH SCIENCE (page 6)

7. What is the scientific study of the oceans called? \_\_\_\_\_
8. A branch of science called \_\_\_\_\_ is the scientific study of Earth's atmosphere, especially in relation to weather and climate.
9. Name two technologies that meteorologists use to study the atmospheric conditions that produce weather.
10. Modern astronomers use Earth- and space-based \_\_\_\_\_ to study the sun, the moon, the planets, and the universe.
11. Name four issues that environmental scientists study.
12. What natural event could bury a town under ash? \_\_\_\_\_  
a. lunar eclipse b. earthquake c. volcano d. flood

## **Chapter 1 Section 1 Review**

- 1. Discuss how one culture contributed to modern science.**
- 2. Name the four major branches of Earth science.**
- 3. Describe two specialized fields of geology.**
- 4. Describe the work of oceanographers and meteorologists.**
- 5. Explain how the work of astronomers has been affected by technology.**
- 6. How have Earth scientists improved our understanding of the environment?**
- 7. Give two examples of how exploring space and exploring the ocean depths are similar.**