

# Directed Reading A

## Section: Science and Scientists

- \_\_\_\_\_ 1. The first steps towards being a scientist are
- a. making good grades and answering questions.
  - b. observing the world then looking up answers.
  - c. paying attention in class and memorizing.
  - d. observing the world, then asking questions.

### ASKING A QUESTION

- \_\_\_\_\_ 2. The beginning of science is
- a. answering questions.
  - b. asking questions.
  - c. memorizing questions.
  - d. memorizing answers.
3. Knowledge gained by observing natural events and conditions in order to discover facts and formulate laws or principles that can be verified or tested is called \_\_\_\_\_.
4. How do science disciplines differ from one another?
- \_\_\_\_\_
- \_\_\_\_\_
5. What do the different science disciplines share?
- \_\_\_\_\_
- \_\_\_\_\_
6. What are three places where can you look for things around you and see them in a new way?
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
7. Name three things you can ask questions about that are not in your neighborhood.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Directed Reading A** *continued*

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**8.** As a scientist, do your questions have to be about Earth only? Explain.

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**INVESTIGATION: THE SEARCH FOR ANSWERS**

\_\_\_\_\_ **9.** Finding information in textbooks, encyclopedias, magazines, and the Internet is called

- a.** science.
- b.** observation.
- c.** research.
- d.** experimentation.

**10.** What is one thing to be careful about when making an observation?

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**11.** What could you do to test an observation?

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**12.** What are two things that can help you plan an experiment?

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**WHY ASK QUESTIONS?**

**13.** What are three diseases that scientists are trying to find cures for?

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**14.** What is one way science helps make resources last longer?

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**Directed Reading A** *continued*

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**15.** Give an example of a question without an immediate answer that science is helping to solve.

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**16.** As scientists do research to answer questions, what may happen?

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**17.** Describe the people who make scientific contributions.

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**SCIENTISTS ALL AROUND YOU**

**Match the correct description with the correct term. Write the letter in the space provided.**

\_\_\_\_\_ **18.** studies volcanoes

\_\_\_\_\_ **19.** uses science to answer questions about machines

\_\_\_\_\_ **20.** a person who specializes in the chemistry of rocks, minerals, and soil

\_\_\_\_\_ **21.** studies the lives of animals

\_\_\_\_\_ **22.** a person who studies the ocean

**a.** mechanic

**b.** zoologist

**c.** volcanologist

**d.** oceanographer

**e.** geochemist