

**Earth: The Water Planet** ▪ *Guided Reading and Study*

## Water Underground

*This section explains how water moves underground from the surface and how underground water is stored in rock layers. The section also describes how underground water moves back to the surface.*

### Use Target Reading Skills

*Before you read, preview the figure, "Bringing Up Groundwater." Then write questions that you have about the diagram. As you read, answer your questions.*

#### Bringing Up Groundwater

Q. What is an artesian well?
A.
Q.
A.

### How Water Moves Underground

1. Precipitation that soaks into the ground trickles downward due to \_\_\_\_\_.

*Match the term with its definition.*

**Term**

- \_\_\_\_\_ 2. pore
- \_\_\_\_\_ 3. permeable
- \_\_\_\_\_ 4. impermeable
- \_\_\_\_\_ 5. saturated zone
- \_\_\_\_\_ 6. water table
- \_\_\_\_\_ 7. unsaturated zone

**Definition**

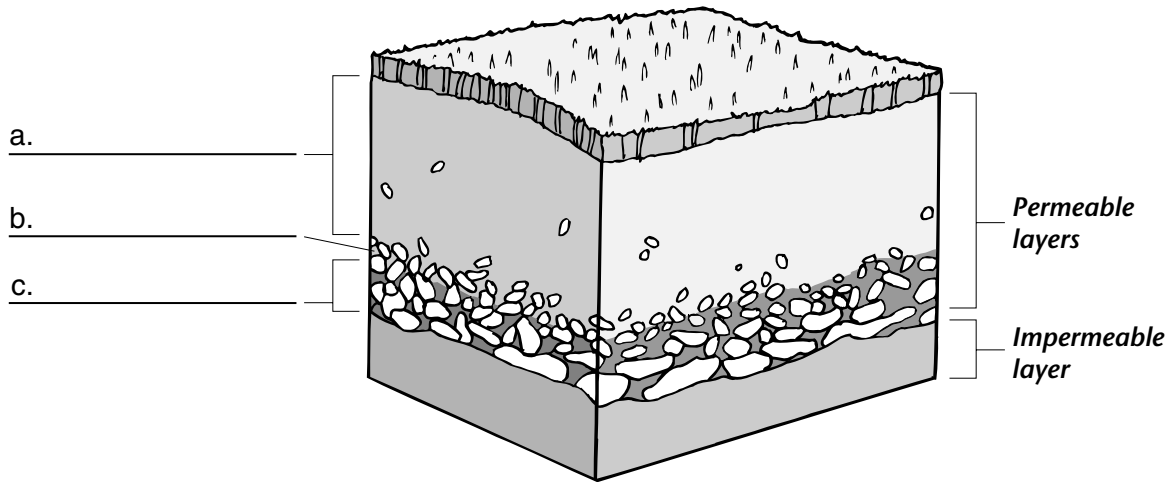
- a. Allows water to pass through
- b. Area that is totally filled with water
- c. Space between rock and soil particles
- d. Does not let water pass through
- e. Layer above the water table
- f. Top of the saturated zone



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**Water Underground** *(continued)*

8. In the drawing, label the water table and the saturated and unsaturated zones.



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9. Any underground layer of rock or sediment that holds water is called a(n) \_\_\_\_\_.
10. Circle the letter of each sentence that is true about aquifers.
  - a. All of them are very large.
  - b. They can provide drinking water.
  - c. They can provide water for crops.
  - d. They contain moving water.

**Bringing Up Groundwater**

11. Is the following sentence true or false? The depth of the water table is always the same, even over a large area of land.  
\_\_\_\_\_
12. Circle the letter of the choice that best explains how to get water from an aquifer with a well.
  - a. By drilling below the water table
  - b. By drilling below the aquifer
  - c. By drilling through impermeable rock
  - d. By drilling near a dry well
13. A well in which water rises because of pressure within an aquifer is called a(n) \_\_\_\_\_.
14. Places where groundwater bubbles or flows out of cracks in the rock are called \_\_\_\_\_.
15. A type of hot spring from which the water bursts periodically into the air is called a(n) \_\_\_\_\_.

