

## Groundwater Webquest



Go to <https://bit.ly/2QXnXr3>

### I. The Basics

1. What is groundwater? \_\_\_\_\_  
\_\_\_\_\_
2. Groundwater is stored in an \_\_\_\_\_.



Click "Read More"

3. What percent of the US uses groundwater for their drinking water? \_\_\_\_\_
4. What is the largest use of groundwater? \_\_\_\_\_
5. Label the boxes below with the choices below. Then, complete the statement "Groundwater..."

A. Water Table

B. Land Surface

C. Gravel

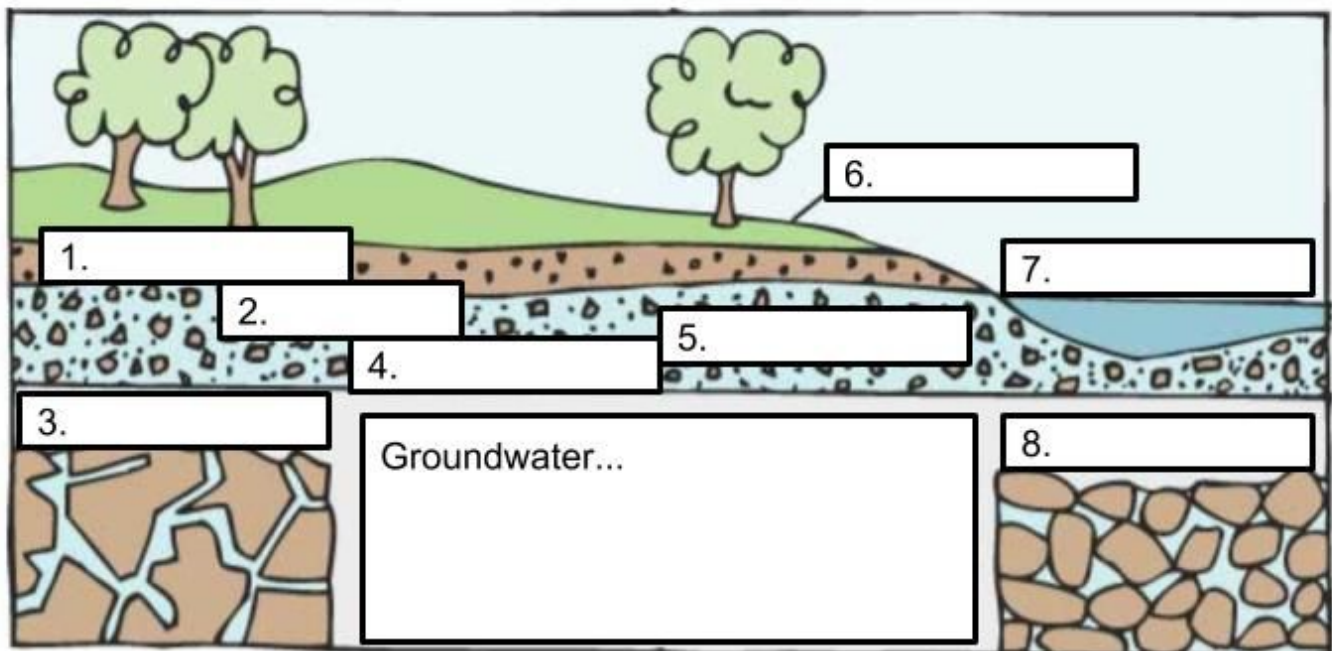
D. Saturated Zone

E. Groundwater

F. Unsaturated Zone

G. Fractured Rock

H. Surface Water



Name: \_\_\_\_\_

Date: \_\_\_\_\_ Class: \_\_\_\_\_

6. What are aquifers made of? \_\_\_\_\_

\_\_\_\_\_

7. What causes the water table to rise & fall? \_\_\_\_\_

\_\_\_\_\_

8. How does water get into the aquifer? \_\_\_\_\_

\_\_\_\_\_

9. What is it called when an aquifer gets refilled/replenished? \_\_\_\_\_

10. Name AND describe the three main ways water can be extracted (taken out ) of an aquifer.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

11. How does groundwater become unsafe? \_\_\_\_\_

\_\_\_\_\_



**Click "Return"**

## **II. How much do we depend on groundwater?**

12. **PREDICT** - What would be ONE result of a loss of groundwater? Justify your answer: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Click "The Hydrologic Cycle" in the blue menu on the left.**



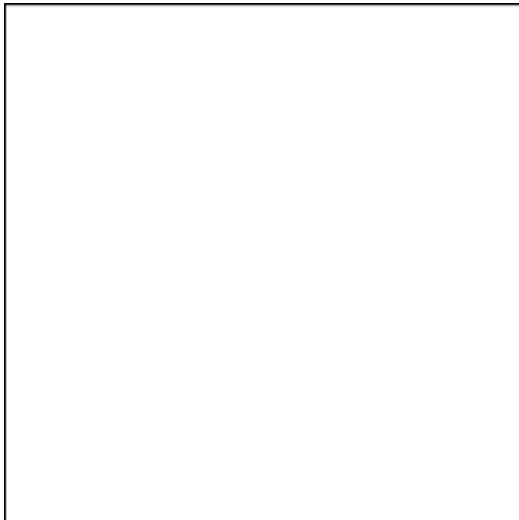
**Click "Read More"**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Class: \_\_\_\_\_

### III. The Hydrologic Cycle (also called The Water Cycle)

13. When precipitation reaches the earth's surface, some of it will flow along the surface of the land and enter surface water like lakes, streams, and rivers, as \_\_\_\_\_ while the rest of it soaks into the soil, called \_\_\_\_\_.
14. The groundwater slowly moves through the \_\_\_\_\_ the soil particles on its journey to lower elevations.
15. What is groundwater flow? \_\_\_\_\_  
\_\_\_\_\_
16. What is it called when groundwater enters a lake or stream and becomes surface water? \_\_\_\_\_
17. Draw a picture that shows discharge.



## Groundwater Webquest KEY



Go to <https://bit.ly/2QXnXr3>

### II. The Basics

1. What is groundwater? **the water found underground in the cracks and spaces in soil, sand and rock**
2. Groundwater is stored in an **aquifer**.



Click "Read More"

3. What percent of the US uses groundwater for their drinking water? **50%**
4. What is the largest use of groundwater? **The largest use for groundwater is to irrigate crops.**
5. Label the boxes below with the choices below. Then, complete the statement "Groundwater..."

A. Water Table

B. Land Surface

C. Gravel

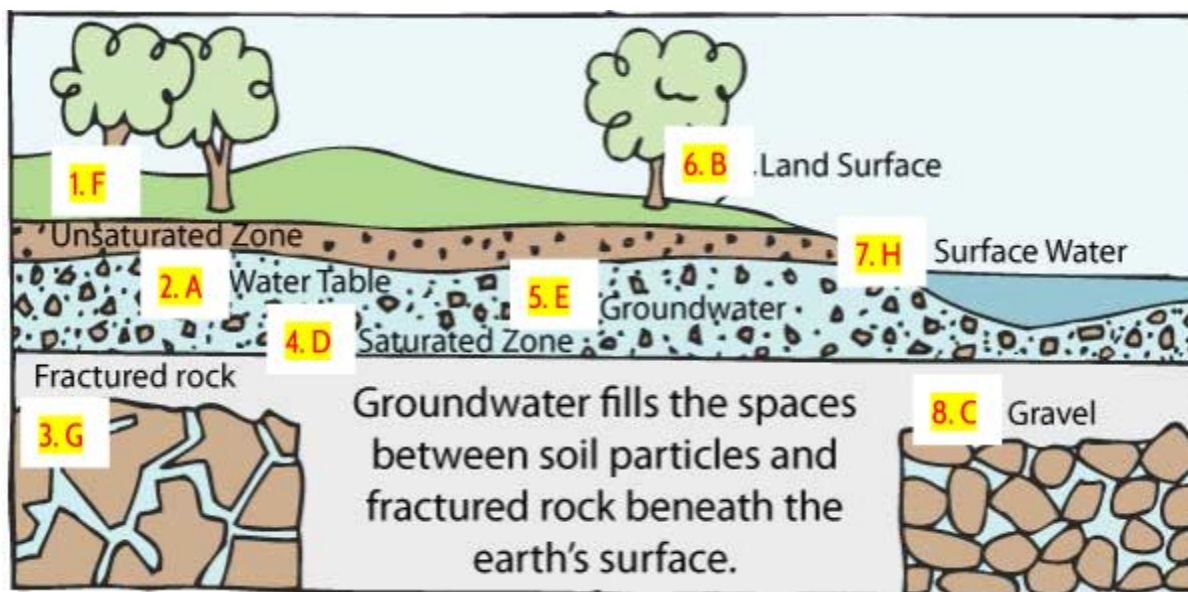
D. Saturated Zone

E. Groundwater

F. Unsaturated Zone

G. Fractured Rock

H. Surface Water



Name: \_\_\_\_\_

Date: \_\_\_\_\_ Class: \_\_\_\_\_

6. What are aquifers made of? **gravel, sand, sandstone, or fractured rock, like limestone.**  

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7. What causes the water table to rise & fall? **Heavy rains or melting snow may cause the water table to rise, or heavy pumping of groundwater supplies may cause the water table to fall.**
8. How does water get into the aquifer? **by rain and snow melt that seeps down into the cracks and crevices beneath the land's surface.**
9. What is it called when an aquifer gets refilled/replenished? **recharged**
10. Name AND describe the three main ways water can be extracted (taken out ) of an aquifer.
  - a. **Naturally through a spring or can be discharged into lakes and streams.**
  - b. **A well is a pipe in the ground that fills with groundwater. This water can be brought to the surface by a pump.**
  - c. **Some wells, called artesian wells, do not need a pump because of natural pressures that force the water up and out of the well.**
11. How does groundwater become unsafe? **Groundwater can be polluted by landfills, septic tanks, leaky underground gas tanks, and from overuse of fertilizers and pesticides.**



**Click "Return"**

#### **IV. How much do we depend on groundwater?**

12. **PREDICT** - What would be ONE result of a loss of groundwater? Justify your answer. **Possible answers: lack of drinking water or irrigation. Answers may vary.**



**Click "The Hydrologic Cycle" in the blue menu on the left.**



**Click "Read More"**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Class: \_\_\_\_\_

## V. The Hydrologic Cycle (also called The Water Cycle)

13. When precipitation reaches the earth's surface, some of it will flow along the surface of the land and enter surface water like lakes, streams, and rivers, as **runoff** while the rest of it soaks into the soil, called **recharge**.
14. The groundwater slowly moves through the **spaces and cracks between** the soil particles on its journey to lower elevations.
15. What is groundwater flow? **movement of water underground is called**
16. What is it called when groundwater enters a lake or stream and becomes surface water? **discharge**
17. Draw picture that shows discharge.

