Apr. 12-16 Station 1: Explain Watersheds and Aquifers

Watersheds: Watersheds are areas of land that funnel water to a particular location. Watch the video below to learn more about watersheds. Then answer the questions that follow.

1. What is a watershed?

A. a body of polluted water
B. land that drains water to the same location or body of water
C. a shed filled with water
D. acid rain that results from too much air pollution

2. What is the purpose of a watershed?

A. to allow humans access to fresh water
B. to allow animals access to fresh water
C. to provide the environment with a continuous flow of water
D. to funnel water into a central area to drain into the soil

Human Impact: Humans can have a great impact on the quality of water that we drink. Watch this video to see how watersheds and human activity can impact our quality of water. Then answer the questions below.

3. Why do you think it might be a problem to build a gas station next to a water reservoir?

4. How do contaminants end up in water reservoirs?

A. the contaminants are picked up by water flowing through an area and washed into the reservoir
B. the contaminants are grown in the reservoir
C. the contaminants develop during the condensation stage of the hydrologic cycle

5. List two ways from the video that we can positively impact the aquifers, watersheds and our environment.

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Aquifers: Aquifers are areas underground that hold freshwater. Water reaches these areas by trickling down through holes in rocks and dirt. We can then access this water by digging wells. Water from aquifers can be used for homes as well as other establishments. Watch the video below to learn more about aquifers and the way that humans interact with aquifers. Then answer the questions below.

6. What are aquifers?

A. areas underground that hold water
B. a body of above ground water that flows into the ocean
C. a man-made lake that supplies towns with water
D. areas of land where people have cleared out all the trees

7. True or False. Underground aquifers hold more water than all the surface lakes and rivers combined?

True **False**

8. What problem faces aquifers today?

A. There are so many aquifers that they are draining the ocean
B. The aquifers have all dried up, plunging the entire world into a drought
C. The water levels in aquifers are depleted as people continue to use too much water
D. There are no problems with the aquifers

9. What solution is Santa Clara County using to recharge their aquifers?
A. They are actively refilling their aquifer with billions of gallons of water every year
B. They are recycling water to refill their aquifer
C. They have failed to create a solution
D. both A and B

10. What other solutions can you come up with to make sure that we have water in our underground aquifers for thousands of years to come? Write one solution below.

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