Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_ **6.2 -** **Water Beneath the Surface** (p. 171-174)

1. Fill in the blank: The amount of water that ends up underground in an area depends on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

2. Apply: Which would have greater infiltration on a steep slope? Explain why.

(Note: a and b both have same volume of rain) a. A quick thunderstorm

b. A slow steady rain

3. What is the difference between the zone of saturation and zone of aeration?

4. Draw a picture for each zone to remind you of the difference.

5. Write ONE sentence to describe how the “water table” is connected to the two zones from question #4.

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| 6. Define porosity: | 7. Define permeability: |

8. How are these two terms related? THEN define an aquifer using these vocabulary terms.

10. How is a geyser produced?

9. How does a spring form?

11. What is a well?

12. Name the top three uses of groundwater in the United States.

13. How does a cone of depression form? Draw a quick picture.

14. Suggest a way to reduce the possibility of a cone of depression from forming.

15. How does an artesian well differ from most wells?