

Groundwater Video Exercise – Earth Revealed “Groundwater” Video

Watch the groundwater video and answer the following review questions.

1. True or False – groundwater is only found in select locations on the planet.
2. What percentage of US citizens are dependent upon groundwater resources?
3. How does the volume of groundwater supply compare to that of surface water?
4. What is the largest supply of fresh water in the U.S.?
5. Define the term “runoff”.
6. True or False: all earth materials allow water to infiltration into the subsurface, at equal rates.
7. The capacity to transmit water is termed _____
8. The capacity to store water is termed _____
9. Define the term “aquifer”.
10. Define the term aquiclude?
11. True or False: clay makes for good aquifer material. Why or why not?
12. Carbon dioxide + water creates _____
13. What type of rock is classically associated with dissolution and cave formation?
14. Define the terms stalactite and stalagmite, draw a sketch of each.
15. True or False: groundwater beneath the earth surface is static and does not flow.
16. Define the terms saturated and unsaturated zones.
17. Draw a diagram of a water table, how is it defined?
18. Where groundwater flows to the earth surface, a _____ is formed.

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19. Define the term “artesian well”, how does it differ from a non-artesian well?
20. Describe the difference between an “open” or “unconfined aquifer”, and a “closed” or confined aquifer. Draw sketches of each.
21. Define the term “recharge zone”, what is it important for aquifers and groundwater use?
22. True or False: groundwater and aquifer processes tend to result in stored, clean supplies of water.
23. What will happen at the earth surface if groundwater is extracted at a greater rate than recharge?
24. What environmental problem is associated with over withdraw of ground water in coastal areas? Draw a sketch.
25. List three sources of groundwater contamination discussed in the video.
26. True or False, on human time scales (e.g. a lifetime), groundwater is a renewable resource.
27. List and discuss the technology is involved with the monitoring and extraction of groundwater from aquifers in urban areas?