

Water Systems Study Guide

Name _____ Block _____

Refer to page 88 of Heath Earth Science.

1. What percentage of the Earth is covered by water?
2. About how much of the Earth's waters is found in the oceans?
3. How much is fresh water?
4. What are two problems facing our fresh water supply?

Refer to page 149 and 150 of Heath Earth Science.

5. Compare the percentage of salt water to fresh water on Earth.
6. What portion of Earth's fresh water is frozen into ice caps and glaciers?
7. Where is most of Earth's usable fresh water located?

Refer to page 153 - 157 of Heath Earth Science.

8. What is **porosity**?
9. Identify two factors that determine the porosity of a material.
10. What is **permeability**?
11. What is the relationship between permeability and grain size?
12. Define **impermeable**.
13. Locate and describe the
 - (a) **zone of saturation**
 - (b) **zone of aeration**
 - (c) **capillary fringe**
 - (d) **water table**.
14. List some natural factors that cause the depth of the water table to vary.
15. Explain what an **ordinary well** is.
16. Describe the arrangement of rock layers in an **artesian formation**.
17. What is an **aquifer**?
18. What is an **artesian well**?
19. Why is the water table dropping steadily in some areas?
20. How do pollutants enter groundwater?
21. How can groundwater pollution be reduced or prevented?