

Water, Water Everywhere

Use pp. 374-381 to complete:

1. What percentage of the earth's water is salty? What percentage is fresh? What percentage is drinkable?
2. Why does coastal water in places with hotter drier climates have a higher salinity than coastal water in places with cooler humid climates?
3. Why are parts of the ocean along the equator warmer than those closer to the poles?
4. How would the air temperature on land be different if the ocean did not release thermal energy so slowly?
5. Define salinity-
6. Define thermal energy-

Use pp. 382-399 to complete:

7. How do scientists use satellites to make detailed maps of the ocean floor?
8. Describe the continental shelf.
9. Describe the mid-ocean ridge.
10. Describe the ocean trenches.
11. What are the three types groups of marine life?
12. Describe the two main types of ocean environments.
13. Identify the ecological zones of the benthic and pelagic environments.
14. Define desalination-

Use pp. 416-433

15. Explain how deep currents form in the ocean.
16. How does warm-water currents affect climate?
17. How does cold-water currents affect climate?
18. What are the effects of El Nino?
19. What causes El Nino and how are scientists trying to predict this phenomenon?
20. Describe the Coriolis Effect.
21. Define the following:
 - Deep-water waves-
 - Shallow-water waves-
 - Undertow-
 - Tsunamis-
 - Storm surges-
22. Describe the motion of a wave as it approaches the shore.
23. Draw a wave and label the parts.
24. Describe the four different types of tides.
25. What is the relationship between the tides and the earth, sun, and moon?

Use pp. 308-335 to complete:

26. Define:
 - Condensation
 - Convection
 - Radiation
 - Transpiration
 - Runoff
 - Percolation
27. Explain how water moves through the water cycle.
28. How does the water cycle help to develop river systems?
29. Explain how energy is transferred in the atmosphere.

Use pp. 316-325 to complete:

30. Define:
 - Deposition-
 - Delta-
 - Water table-
 - Aquifer-
 - Permeability-

Use pp. 326-331 to complete:

31. Define:
 - Aquifer-
 - Permeability-
 - Point-source pollution-
 - Nonpoint pollution-
 - Dissolved oxygen-
 - Nitrates-
 - Alkalinity-
 - Septic tank-
32. What kind of wastewater treatment can be used for an individual home?
33. Describe why the level of dissolved oxygen in a stream, lake, or river is important.