

Currents EDGENUITY Quiz

1. Which of these events happens first in Earth's polar regions?
 - a. The dense water sinks.
 - b. The water travels as a deep current.
 - c. Water molecules move closer together.
 - d. Cold air chills water molecules.
2. What are the two causes of density in deep current waters?
 - a. Salinity (how much salt) of the water and high temperatures.
 - b. Salinity (how much salt) of the water and low temperatures.
 - c. Oxygen content of the water and high temperatures.
 - d. Oxygen content of the water and low temperatures.
3. What is the pycnocline?
 - a. The boundary between the surface water and deep water.
 - b. The changing level of ocean salinity.
 - c. The places where two surface currents meet.
 - d. The boundary north of which water moves clockwise and south of which water moves counterclockwise.
4. In 1947 Thor Heyerdahl sailed a simple raft from Peru to Polynesia, following the ocean currents for more than 6,000 kilometers. Which statement accurately describes what Heyerdahl proved by this voyage?
 - a. Ancient Peru was settled by people from Polynesia.
 - b. People from ancient Peru were the first settlers of Polynesia.
 - c. It would have been possible for people from ancient Peru to reach Polynesia by following ocean currents.
 - d. Polynesia was settled accidentally when rafts from Peru were carried out by ocean currents.
5. The Gulf Stream is an example of a(n) _____ current.
 - a. Surface
 - b. Coriolis effect
 - c. deep
 - d. Antarctic
6. What force makes cold water sink toward the ocean floor?
 - a. Global winds
 - b. The sun
 - c. gravity
 - d. the Coriolis effect
7. How does the Coriolis effect make ocean currents appear to move?
 - a. Back and forth
 - b. In a curved path
 - c. clockwise
 - d. against the Earth's rotation
8. What term describes the movement of ocean water between surface and deep water?
 - a. Pycnoclining
 - b. Conveyor belt cycling
 - c. The Coriolis effect
 - d. none of the above
9. A stream-like movement of ocean water far below the ocean surface is a
 - a. Gravitational current
 - b. Coriolis current
 - c. surface current
 - d. deep current
10. What happens to an ocean current when it hits a continent?
 - a. It changes direction.
 - b. It moves toward the poles.
 - c. It moves toward the Equator
 - d. It speeds up.

11. How much of the oceans' water is part of the deep waters?
 - a. 50%
 - b. 25%
 - c. 99%
 - d. 90%
12. The density of ocean water increases when it
 - a. Joins the Gulf Stream
 - b. Gets colder
 - c. gets warmer
 - d. turns to ice
13. Which currents carry warm water away from the equator?
 - a. Deep currents
 - b. Evaporation
 - c. surface currents
 - d. freezing
14. The curved paths of global winds and surface currents are caused by
 - a. The revolution of the Earth
 - b. The Coriolis effect
 - c. warm air near the Equator
 - d. continental deflection
15. Temperature, salinity, and density are factors in the formation of
 - a. Wind currents
 - b. Deep currents
 - c. electric currents
 - d. surface currents.
16. The Gulf Stream Current is deflected by North America, causing the current to change direction. What is this concept called?
 - a. Continental deflection
 - b. The Coriolis effect
 - c. Pycnocline
 - d. Conveyor belt cycling
17. Surface currents are caused by
 - a. Floods
 - b. Warm water
 - c. the wind
 - d. the equator
18. Ocean currents flow from east to west near the
 - a. Gulf Stream
 - b. Poles
 - c. equator
 - d. global winds
19. In what direction do global winds and currents flow near the equator?
 - a. East to west
 - b. West to east
 - c. toward the land
 - d. north to south
20. Compared with surface currents, deep currents are
 - a. Colder and less dense
 - b. Warmer and less dense
 - c. warmer and denser
 - d. colder and denser
21. What three factors control surface currents?
 - 1-
 - 2-
 - 3-
22. What are three factors that control deep currents?
 - 1-
 - 2-
 - 3-