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Ocean Currents & Ecosystems

_____ Period ____

Directions – Go to Classcraft.com to learn about ocean currents and ecosystems

| 1. | A horizontal | of | | through the ocean | | |
|----------------|---|---|---------------------|----------------------------|---------------------|--|
| 2. | | | | | | |
| 3. | | main types of currents – | | | | |
| | currents – the movement of water near the surface caused by | | | | | |
| 4. | | currents – the movement of water far used by changes in | | | the ocean's surface | |
| 5. | The | drives | | currents within Ea | rth's oceans | |
| <u>Corioli</u> | s Effect | | | | | |
| 6. | – the apparent curvature of wind and ocean currents due to the of Earth | | | | | |
| 7. | | e Coriolis effect, ocean currents circulate in the northern hemisphere and in the southern hemisphere | | | | |
| 8. | Use arrows to sho | w the direction the Coriolis | Effect causes the c | urrents to move in each he | emisphere. | |
| | Northern Hemisphere | | | Southern Hemisphere | | |
| | | | | | | |

Ocean Currents Diagram

- 9. Ocean currents near the ______ bring _____ water to the areas in which they circulate (ex. Gulf Stream current)
- 10. Ocean currents near the ______ bring _____ water to the area in which they circulate (ex. California current)

| Climate | e <u>e</u> | |
|----------------|---|-----------|
| 11. | . Ocean currents help to | |
| 12. | . Ocean currents water that has been unevenly by the Sun's rad | diation |
| 13. | . Regions located near warm ocean currents tend to have and more climates | |
| 14. | . Regions located near cold ocean currents tend to have climates | |
| 15. | . Example – The is located near a warm ocean current and exmuch warmer climate than areas of Eastern which are located ocean current. | |
| | Ecosystems The ocean ecosystem is made of bothandfactors. | |
| 17. | factors in an ecosystem are things that are or were once | |
| | like snails, algae,, sea turtles and so on. | |
| 18. | factors are the things that are | |
| | such as, salinity, rocks,, water temperature, ocean curr | ents, and |
| <u>Analysi</u> | sis Questions | |
| 19. | . What is the Sun's role in generating ocean currents? | |
| 20. | . Describe the Coriolis Effect and its impact on ocean currents. | |

22. Why is water in California cooler than that in the Gulf of Mexico? (go back and look at the ocean current

23. What is the difference in the formation of surface and deep ocean currents?

21. Where does convection occur on Earth?

diagram)