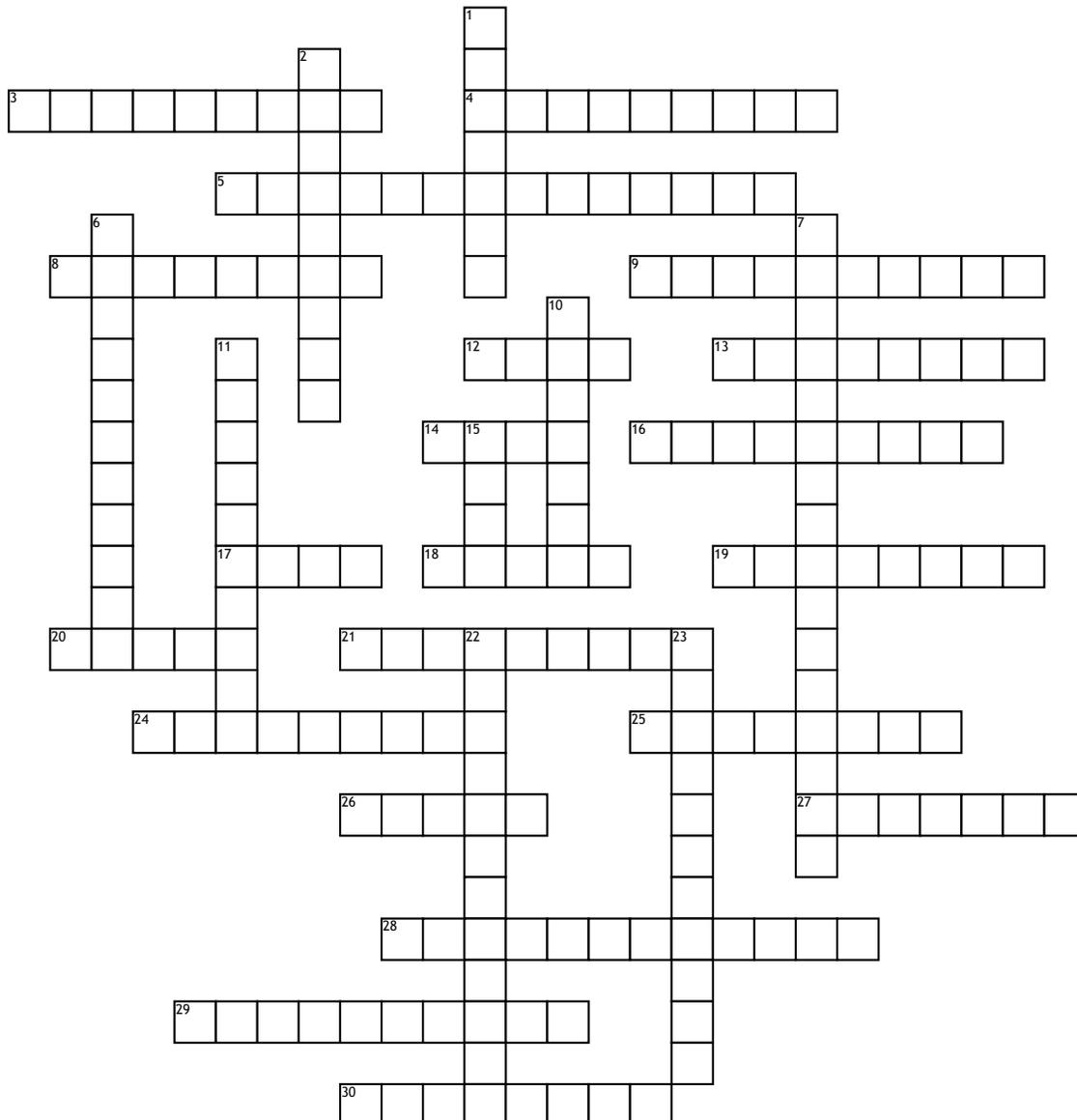


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Ocean Currents



**Across**

- 3. A vertical, upward movement of deep, cold, nutrient-rich water to the surface.
- 4. Upwelling brings greater concentrations of dissolved \_\_\_\_\_ to the surface.
- 5. A gyre moves in circular motions because of the \_\_\_\_\_.
- 8. Density Currents are \_\_\_\_\_ currents that result from density differences.
- 9. The Coriolis effect is the \_\_\_\_\_ of currents away from their original course as a result of Earth's rotation.
- 12. Currents from high latitudes bring \_\_\_\_\_ water to lower latitudes.
- 13. Wind and \_\_\_\_\_ between the ocean surface creates surface currents.
- 14. Currents from low latitudes bring \_\_\_\_\_ water to the higher latitudes.
- 16. The density of water is \_\_\_\_\_ as the temperature rises.
- 17. The \_\_\_\_\_ current brings cool water from the poles toward Equator.

18. Huge circular moving current systems that dominate ocean waters.

- 19. More nutrients at the surface helps to produce more \_\_\_\_\_.
- 20. \_\_\_\_\_ water sinks
- 21. Surface currents move \_\_\_\_\_ in the northern hemisphere.
- 24. \_\_\_\_\_ circulation are created when high density water sinks.
- 25. If \_\_\_\_\_ increases, more salt is in the water, causing water to sink.
- 26. Density currents begin closer to the \_\_\_\_\_, at high latitudes.
- 27. The \_\_\_\_\_ is found at low latitudes.
- 28. Surface currents are movements of water that flow \_\_\_\_\_ from one place to another.
- 29. The \_\_\_\_\_ is a surface current that warms up Europe.
- 30. A gyre moves counter-clockwise in the \_\_\_\_\_ hemisphere.

**Down**

- 1. \_\_\_\_\_ currents are caused by low temperatures or high salinity.
- 2. If density \_\_\_\_\_, the water sinks.
- 6. At low \_\_\_\_\_ sea ice forms causing an increase in density.
- 7. Evaporation causes the density currents in the \_\_\_\_\_ as the water passes through the straits of Gibraltar.
- 10. Surface climates affect the \_\_\_\_\_ by transferring heat around the Earth
- 11. A half of the earth, usually as divided into northern and southern halves by the equator
- 15. Upwelling is caused by winds moving the water \_\_\_\_\_ from the coast.
- 22. A simplistic model of ocean circulation is like a \_\_\_\_\_ that travels around the globe.
- 23. \_\_\_\_\_ increases salinity by removing water.