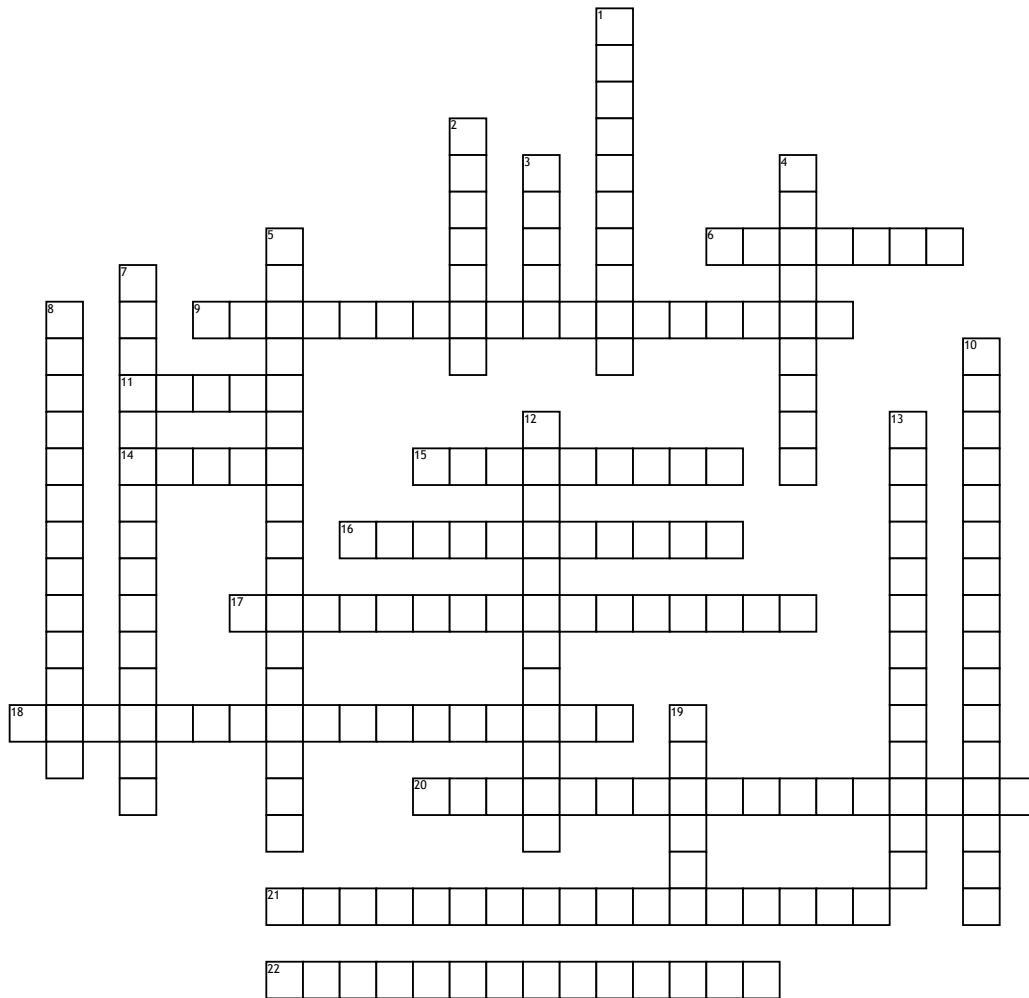


# PLATE TECTONICS



**Across**

- 6. The mass per unit volume of a substance at a specified pressure and temperature
- 9. Two plates of the lithosphere coming closer together from two different directions
- 11. One of the sections of the earth's lithosphere constantly moving in relation to the other sections
- 14. The solid, outermost layer of the Earth lying above the mantle
- 15. A liquid layer about 2,260 km thick
- 16. The solid outer part of the Earth, including the crust and uppermost mantle
- 17. A theory that explains scientific observations
- 18. A boundary in which two plates slide past each other without creating or destroying lithosphere

- 20. A linear feature that exists between two tectonic plates that are moving away from each other
- 21. The concept that new oceanic crust is created at the mid-ocean ridge as a result of divergence between plates.
- 22. The theory that the earth's surface is divided into a few large, thick plates that are continually moving

**Down**

- 1. The sideways and downward movement of the edge of a plate of the earth's crust into the mantle beneath another plate
- 2. A continent formed 250 million years ago due to plate movement
- 3. A crack in the Earth's crust
- 4. A solid sphere in the middle of the fluid core

- 5. A current in a fluid that results from convection
- 7. A long, narrow but very deep depression in the ocean floor
- 8. A zone of the Earth's mantle that lies beneath the lithosphere
- 10. The gradual movement of the continents across the earth's surface
- 12. Waves of energy that travel through the core of the Earth
- 13. The site where tectonic plates move apart and new oceanic crust is created
- 19. The layer of the Earth between the crust and the outer core

**Word Bank**

- |                     |                    |                    |                    |                    |
|---------------------|--------------------|--------------------|--------------------|--------------------|
| plate tectonics     | Transform boundary | Lithosphere        | divergent boundary | deep ocean trench  |
| outer core          | fault              | seafloor spreading | plate              | mid-ocean ridge    |
| Crust               | Asthenosphere      | Pangaea            | subduction         | convection current |
| Convergent boundary | mantle             | Inner core         | Scientific Theory  | density            |
| continental drift   | Seismic waves      |                    |                    |                    |