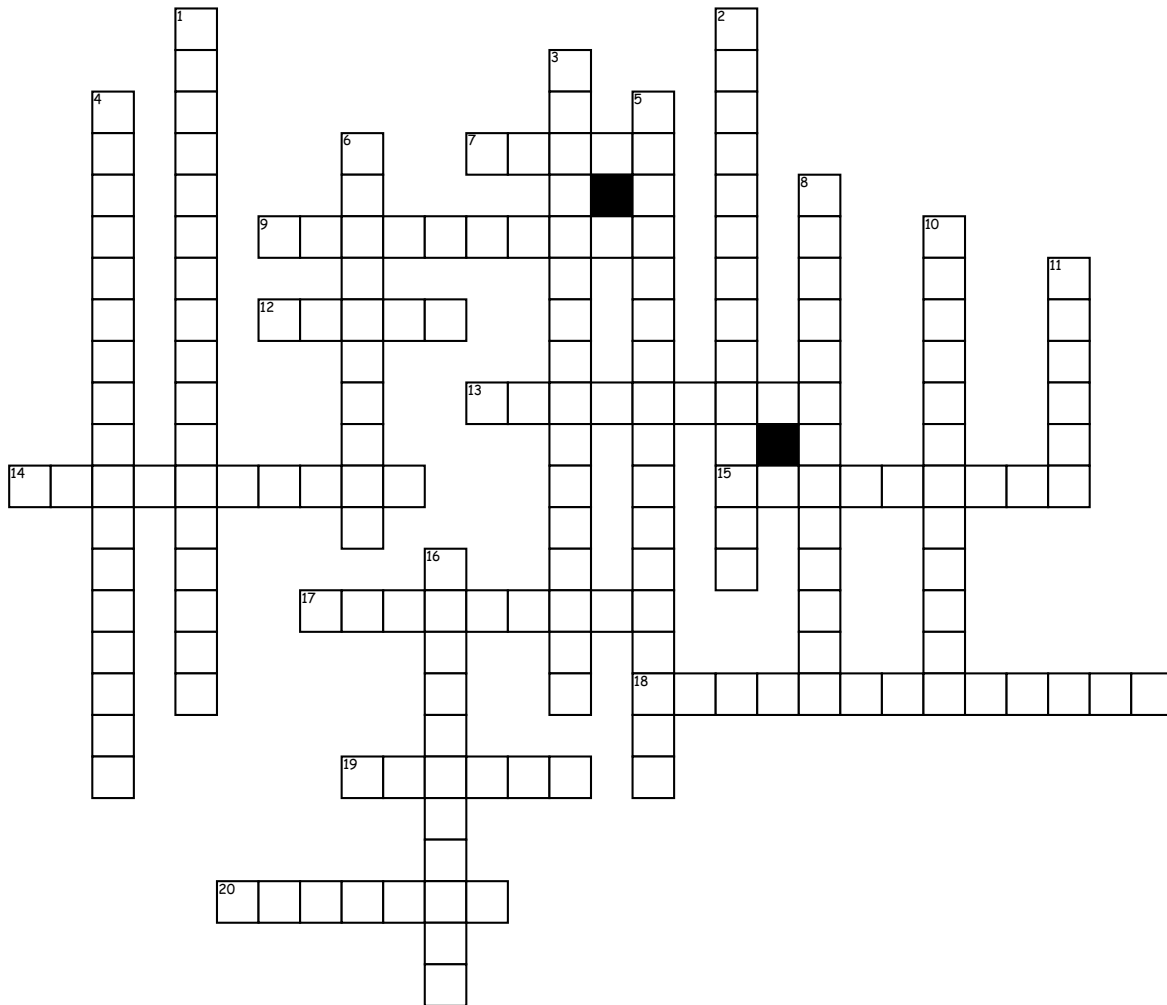


# Plate Tectonics



## Across

7. a device that determines the distance of an object underwater by recording echoes

9. the transfer of heat by movement of fluid

12. the layer of rock that forms Earth's outer surface

13. a layer of molten iron (Fe) and nickel (Ni) that surrounds the inner solid core of the Earth

14. the process by which the oceanic crust sinks beneath the deep ocean trench and back into the mantle at a convergent boundary

15. a dense sphere of solid iron (Fe) and nickel (Ni) at the center of the Earth

17. the transfer of energy through space

18. Weak, partially melted layer composed of semi-molten rocks

19. a trace of an ancient organism that has been preserved in rock

20. the name of the single land mass that broke apart and gave rise to today's continents

## Down

1. the movement of fluid, caused by differences in temperature, that transfers heat from one part of the fluid to another

2. the theory that pieces of Earth's lithosphere are in constant motion, driven by convection currents in the mantle

3. the hypothesis that the continents slowly move across Earth's surface

4. a plate boundary where two plates move away from each other

5. a plate boundary where two plates move past each other in opposite directions.

6. the transfer of heat within a material or between materials that are touching

8. an undersea mountain chain where new ocean floor is produced (usually at a divergent boundary)

10. vibrations that travel through Earth carrying the energy released during an earthquake.

11. the layer of hot, solid material between Earth's crust and core.

16. A rigid layer made up of the uppermost part of the mantle and the crust.