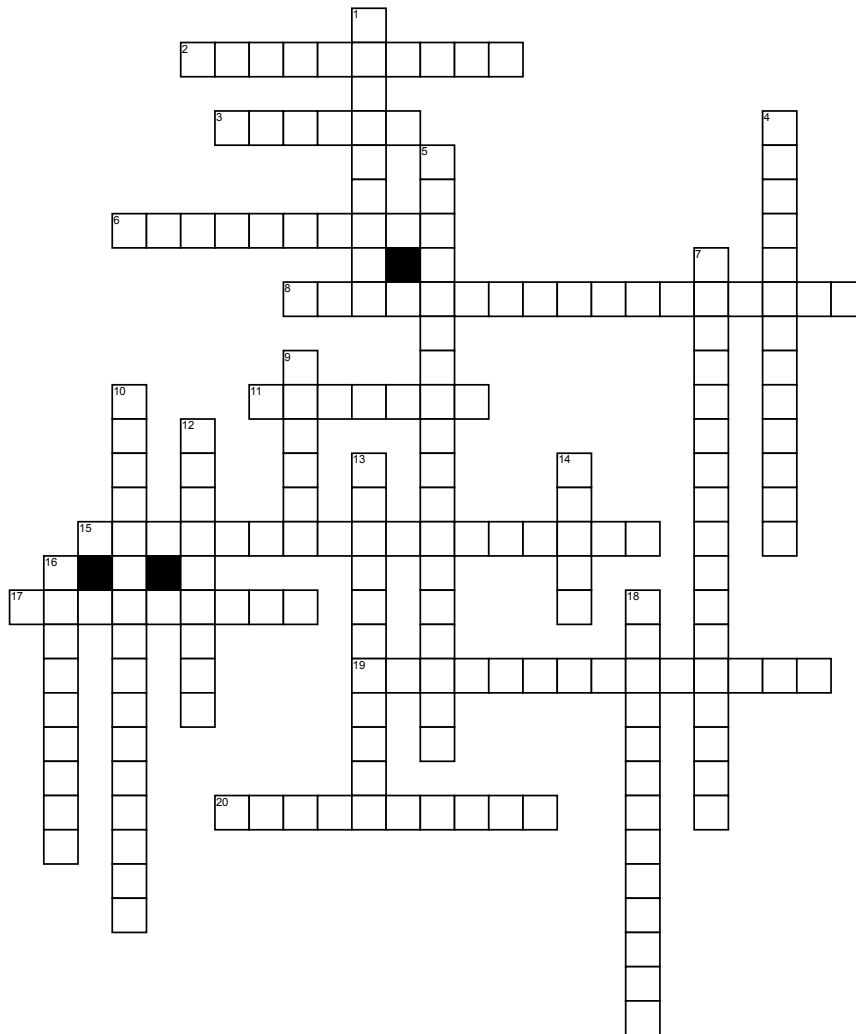


Plate Tectonics



Across

2. a deep valley where two plates move apart
 3. a trace of an ancient organism that has been preserved in rock
 6. the transfer of heat within a material or between materials that are touching
 8. the movement of fluid, caused by differences in temperature, that transfers heat from one part of the fluid to another.
 11. the name of the single land mass that broke apart and gave rise to today's continents
 15. a plate boundary where two plates move away from each other

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

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

20. the transfer of heat by movement of fluid

Down

1. the transfer of energy through space
 4. an undersea mountain chain where new ocean floor is produced (usually at a divergent boundary)
 5. a plate boundary where two plates move toward each other
 7. a plate boundary where two plates move past each other in opposite directions.

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

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

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

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

14. a section of the lithosphere that slowly moves over the asthenosphere, carrying pieces of the continental and oceanic crust

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

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

Word Bank

- | | | | |
|---------------------|-----------------|--------------------|--------------------|
| outer core | fossil | lithosphere | convection current |
| mid-ocean ridge | asthenosphere | conduction | inner core |
| convection | mantle | divergent boundary | radiation |
| outer core | Pangaea | continental drift | plate |
| convergent boundary | plate tectonics | rift valley | transform boundary |