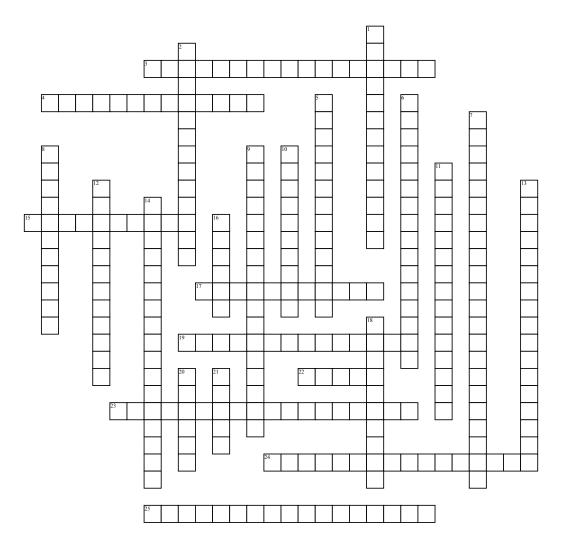
PLATE TECTONICS



Across

- 3. a chain of volcanoes that develop parallel to a trench
- **4.** form at continental-continental convergent boundaries
- 15. the transfer of heat by the movement of a fluid
- 17. a device that is used to record earthquake waves
- 19. the theory that pieces of Earth's lithosphere are in constant motion, driven by convection currents in the mantle
- 22. surface along which rocks move when they pass their elastic limit and break
- 23. a plate boundary where two plates move toward each other
- **24.** the hypothesis that the continents slowly move across Earth's surface
- **25.** when two tectonic plates slide past each other horizontally

Down

- 1. an undersea mountain chain where new ocean floor is produced
- 2. A researcher that discovered the continental drift.
- 5. the soft layer of the mantle on which the lithosphere floats
- **6.** The thick part of the earth's crust that forms the large landmasses
- 7. mountains formed in part by igneous activity associated with subduction of oceanic lithosphere beneath a continent
- **8.** the solid, outer layer of the earth that consists of the crust and the rigid upper part of the mantle
- **9.** the process by which molten material adds new oceanic crust to the ocean floor
- 10. a geological process in which one edge of a crustal plate is forced sideways and downward into the mantle below another plate

- 11. deep valley along the ocean floor beneath which oceanic crust slowly sinks towards the mantle
- 12. the uppermost layer of the oceanic portion of a tectonic plate.
- 13. the flow that transfers heat within a fluid
- 14. a plate boundary where two plates move away from each other
- **16.** large supercontinent that existed 250 million years ago
- 18. A deep valley that forms where two plates move apart.
- ${\bf 20.}$ a depression in the seafloor produced by subduction process
- **21.** a mass of molten rock formed at the depth, including dissolved gases and crystals

Word Bank

mountain range divergent boundary asthenosphere Trench convection Continental Volcanic Arc seismograph convection current Continental Crust continental drift OCEANIC CRUST Volcanic Island Arc transform boundary plate tectonics deep-ocean trench rift valley subduction Alfred Wegener sea-floor spreading convergent boundary lithosphere mAGMA **fAULT** mid-ocean ridge Pangea