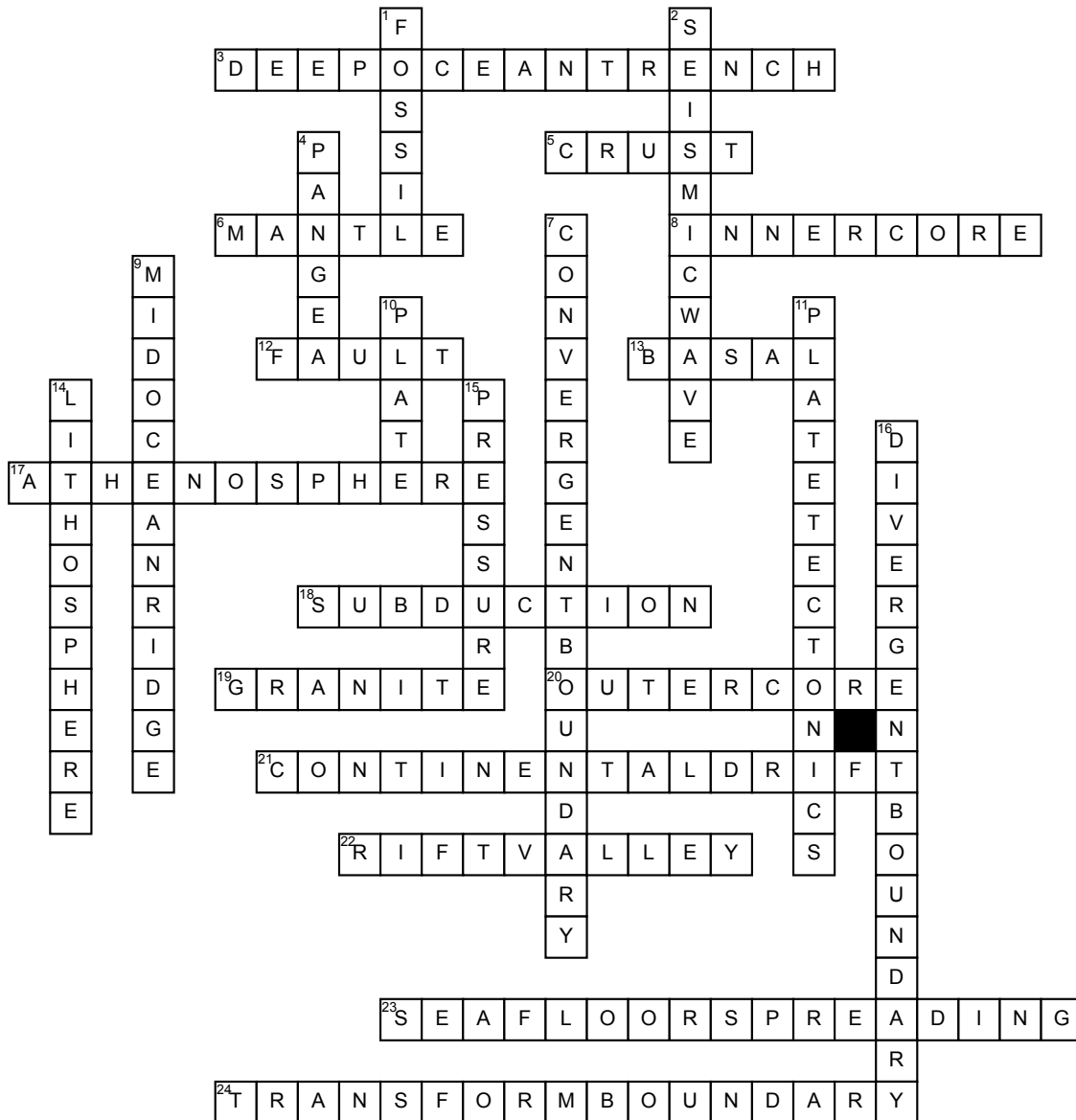


# Plate Tectonics and Earth Interior



## Across

- 3.** A deep valley along the ocean floor beneath which oceanic crust slowly sinks toward the mantle.
- 5.** The layer of rock that forms Earth's outerskin.
- 6.** Layer of hot, solid material between Earth's crust and core.
- 8.** A dense sphere of solid iron and nickel at the center of Earth.
- 12.** A break in earth's crust along which rocks move.
- 13.** Is a dark, dense, igneous rock with a fine texture, found in ocean crust.
- 17.** The soft layer of the mantle on which the lithosphere floats.
- 18.** The process by which oceanic crust sinks beneath a deep-ocean trench and back into the mantle at a convergent plate boundary.

- 19.** A usually light-colored igneous rock that is found in continental crust.
- 20.** A layer of molten iron and nickel that surrounds the inner core of earth.
- 21.** The hypothesis that the continents slowly move across earth's surface.
- 22.** A deep valley that forms where two plates move apart.
- 23.** The process by which molten material adds new oceanic crust to the ocean floor.
- 24.** A plate boundary where two plates move past each other in opposite directions.

## Down

- 1.** The preserved remains or traces of an organism that lived in the past.
- 2.** Vibrations that travel through Earth carrying the energy released during an earthquake.

- 4.** The name of the single landmass that began to break apart 200 million years ago and gave rise to today's continents.
- 7.** A plate boundary where two plates move toward.
- 9.** An undersea mountain chain where new ocean floor is produced.
- 10.** A section of the lithosphere that slowly moves over the asthenosphere, carrying pieces of continental and oceanic crust.
- 11.** The theory that pieces of Earth's lithosphere are in constant motion, driven by convection currents in the mantle.
- 14.** A rigid layer made up of the uppermost part of the mantle and the crust.
- 15.** The force pushing on a surface divide by the area of that surface.
- 16.** A plate boundary where two plates move away from each other.