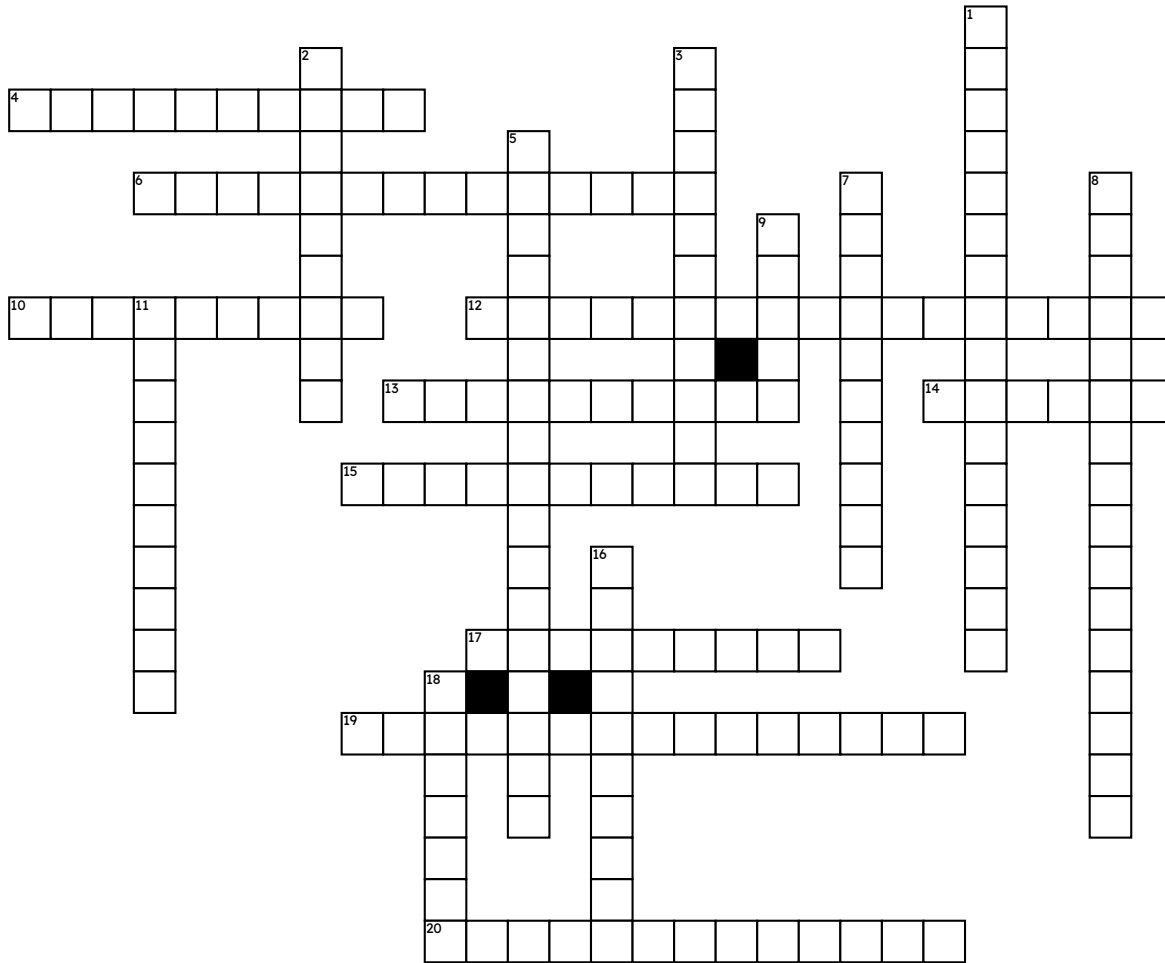


Name: _____

Date: _____

Plate Tectonics



Across

- 4.** The process that takes place at convergent boundaries by which one tectonic plate moves under another tectonic plate and sinks into the mantle as the plates converge
- 6.** Theory that Earth's crust and upper mantle are broken into plates that float and move around on plastic-like layer of the mantle
- 10.** Opening in Earth's surface that erupts sulfurous gases, ash, and lava; can form at Earth's plate boundaries, where plates move apart or together, and at hot spots
- 12.** The ocean floor sinking deep underwater canyons
- 13.** The shaking and trembling that results from the movement of rock beneath Earth's surface
- 14.** Breaks in Earth's crust where rocks have slipped past each other

- 15.** Rigid layer of Earth about 100km thick, made of the crust and a part of the upper mantle

- 17.** Places where plates slide sideways past each other

- 19.** Where the forces of plate motion push or pull the crust so much that it breaks

- 20.** Plastic-like layer of Earth on which the lithospheric plates float and move around

Down

- 1.** Wegener's hypothesis that all continents were once connected in a single, large landmass that broke apart about 200 million years ago and drifted slowly to their current positions

- 2.** A linear feature that exists between two tectonic plates that are moving away from each other

- 3.** A wave generated by an Earthquake

- 5.** Current in Earth's mantle that transfers heat in Earth's interior and is the driving force for plate tectonics

- 7.** A deep boundary that forms along the divergent boundary

- 8.** A well tested concept that explains a wide range of observations.

- 9.** A large section of Earth's oceanic or continual crust and rigid upper mantle that moves around on the asthenosphere

- 11.** An actively deforming region where two or more tectonic plates or fragments of the lithosphere move toward one another and collide

- 16.** Formed by the many volcanoes that rim the Pacific ocean

- 18.** Supercontinent that began to break apart 225 million years ago.