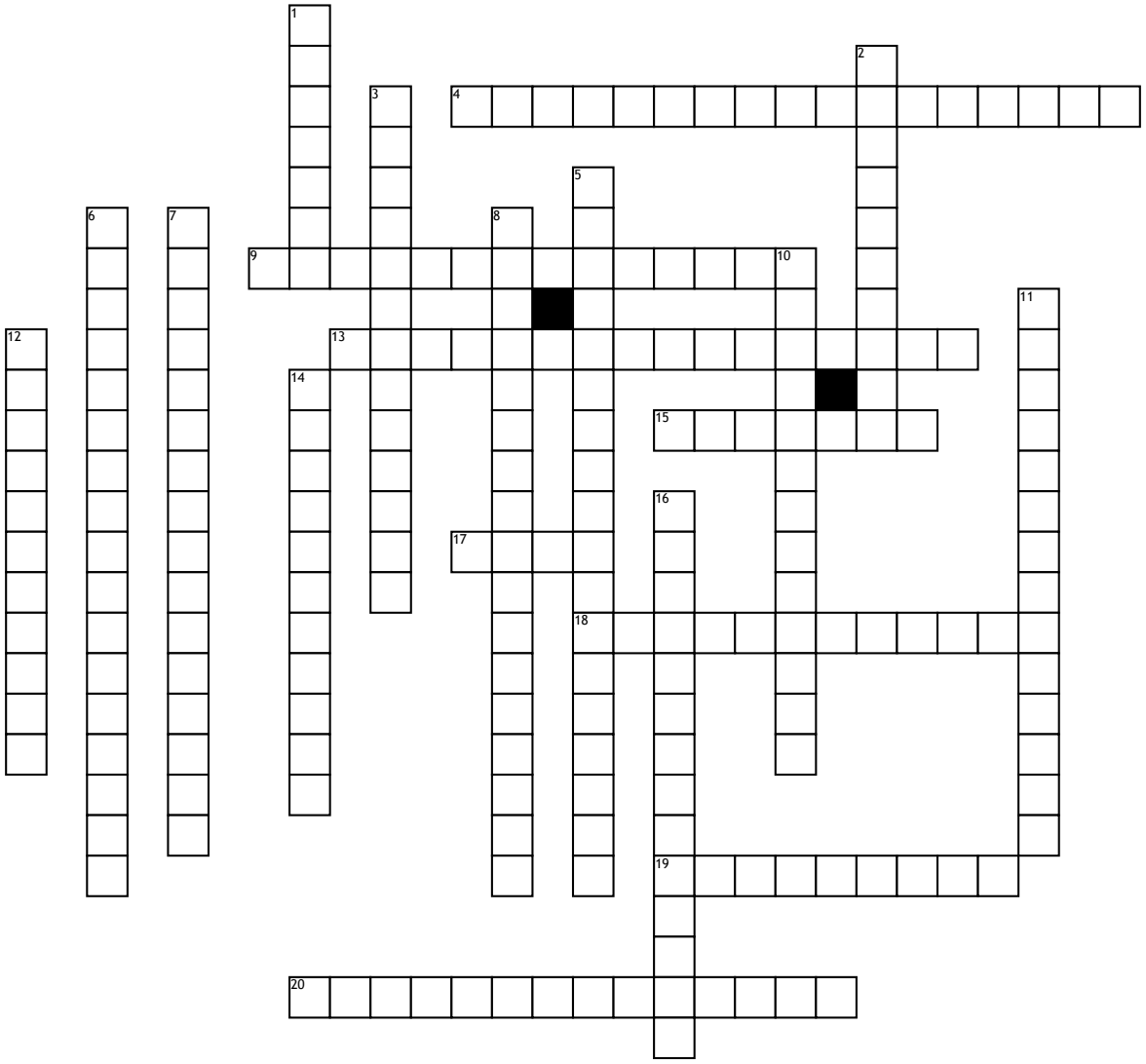
Name: _____ Date: _____

# Crossword



**Across**

**4.** The boundary between tectonic plates that are moving away from each other

**9.** The study of the alignment of magnetic minerals in a rock

**13.** The hypothesis that states that the continents once formed a single land mass, broke up, and drifted to their present locations

**15.** A vent or fissure in the Earth's surface through which magma and gases are expelled

**17.** Proposed that the valley at the center of the ridge crack, or in Earth's crust

**18.** Dense, and is made of rock that is rich in iron and magnesium

**19.** A chain of volcanic islands

**20.** The region along a plate boundary where one plate moves under another plate

**Down**

**1.** A super continent

**2.** The movement of heated material due to differences in density that are caused by differences in temperatures

**3.** The solid, plastic layer of the mantle, made of the mantle rock that flows very slowly, which allows tectonic plates to move on top of it

**5.** The boundary between tectonic plates that are colliding

**6.** The process by which new oceanic lithosphere forms as magma rises to Earth's surface and solidifies at a mid ocean ridge

**7.** Low density and rich in silica

**8.** A zone of active volcanoes that encircles the pacific ocean

**10.** A long, undersea mountain chain that has a steep, narrow valley at its center, that forms as magma rises from the asthenosphere and that creates new oceanic lithosphere as tectonic plates move apart

**11.** The theory that explains how large pieces of the lithosphere, called plates, move and change shape

**12.** The solid, outer layer of Earth that consists of the crust and the rigid upper part of the mantle

**14.** When tectonic plates move, sudden shifts can occur along their boundaries

**16.** Wegner hypothesized that the continents once formed part of a single land mass.... This is called ....

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