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Plate Tectonics

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| **Across**  **2.** The layer of hot, solid material between Earth's crust and core.  **7.** The trace or remains of an organism that lived long ago, most commonly preserved in sedimentary rock.  **8.** A measuring instrument that sends out an acoustic pulse in water and measures distances in terms of the time for the echo of the pulse to return.  **12.** A usually light colored igneous rock that is found in continental crust.  **14.** Large super continent that existed 250 million years ago.  **16.** The result of a force distributed over an area.  **17.** A layer of molten iron and nickel that surrounds the inner core of Earth.  **18.** The transfer of heat by the movement of a fluid.  **19.** The transfer of energy through space.  **20.** A dark, dense, igneous rock with a fine texture, found in oceanic crust. | **Down**  **1.** Vibrations that travel through Earth carrying the energy released during an earthquake.  **3.** Circular currents in the mantle caused by the magma being heated by the core off the Earth.  **4.** The hypothesis that the continents slowly move across Earth's surface.  **5.**  An underwater mountain chain where new ocean floor is formed.  **6.** The layer of rock that forms Earth's outer surface.  **9.** The soft layer of the mantle on which the lithosphere floats  **10.** The direct transfer of heat from one substance to another substance that it is touching.  **11.** The solid, outer layer of the earth that consists of the crust and the rigid upper part of the mantle.  **13.** The amount of matter in a given space; mass per unit volume.  **15.** A dense sphere of solid iron and nickel at the center of Earth. |