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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. |