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Plate Tectonics and Earth Interior

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| **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 benath 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 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 slowy 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. |