Tectonic Plates

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| **Across**  **3.** A plate boundary where two plates move away from each other.  **7.** The name of the single continent that broke apart 200 million years ago.  **8.** The movement of energy from a warmer object to a cooler object.  **12.** Heat transfer by direct contact of particles of matter.  **13.** A break in Earth's crust  **14.** The transfer of energy through an empty space.  **16.** The name if young German scientist who was curious about the relationship of the continents.  **17.** A major belt of volcanoes that rims the Pacific Ocean  **19.** A plate boundary where two plates move towards each other.  **20.** The theory that pieces of Earth's lithosphere are constantly in motion, driven by convection currents in the mantle.  **21.** A layer of hot solid material between the crust and the core. | **Down**  **1.** The hypothesis that the continents slowly move across earths surface  **2.** A vibration that travels through earth carrying the energy released during an earthquake.  **4.** The soft layer of the mantle on which the Lithosphere floats.  **5.** The movement of a fluid, caused by differences in temperature, that transfers heat from one part of the fluid to each other.  **6.** A plate boundary where two plates move past each other in opposite directions.  **9.** A deep valley that forms where two plates move apart.  **10.** The layer of rock that forms earth's outer surface.  **11.** The measure of how much mass there is in a volume substance.  **15.** A dense ball of solid metal.  **18.** A layer of molten metal that surrounds the inner core. |