Tectonic Plates

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  C |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 2  S |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 3  D | I | V | E | R | G | E | N | T | B | O | U | N | D | 4  A | R | Y |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | I |  |  |  | T |  |  |  |  |  |  | T |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 5  C |  |  |  |  | S |  |  |  | I |  |  |  |  |  |  | H |  |  |  |  |  |  |
|  |  |  |  |  |  |  | O |  |  |  |  | M |  |  |  | N |  | 6  T |  |  |  |  | E |  |  |  |  |  |  |
|  |  |  |  |  |  |  | N |  |  |  |  | I |  |  |  | E |  | R |  |  |  |  | N |  |  |  |  |  |  |
|  |  |  |  |  |  |  | V |  |  |  |  | C |  | 7  P | A | N | G | A | E | A |  |  | O |  |  |  |  |  |  |
|  |  |  |  |  |  |  | E |  |  |  |  | W |  |  |  | T |  | N |  |  |  |  | S |  |  |  |  |  |  |
|  |  |  |  |  |  |  | C |  |  | 8  H | E | A | T | T | R | A | N | S | F | E | 9  R |  | P |  |  |  |  |  |  |
|  |  |  |  |  |  |  | T |  |  |  |  | V |  |  |  | L |  | F |  |  | I |  | H |  |  |  |  |  |  |
|  |  |  |  |  |  |  | I |  | 10  C |  |  | E |  | 11  D |  | D |  | O |  |  | F |  | E |  |  |  |  |  |  |
|  |  |  |  |  |  |  | O |  | R |  |  |  |  | E |  | R |  | R |  |  | T |  | R |  |  |  |  |  |  |
|  |  |  |  |  | 12  C | O | N | D | U | C | T | I | O | N |  | I |  | M |  |  | V |  | E |  |  |  |  |  |  |
|  |  |  |  |  |  |  | C |  | S |  |  |  |  | S |  | F |  | B |  |  | A |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 13  F | A | U | L | T |  | 14  R | A | D | I | A | T | I | O | N |  | L |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | R |  |  |  |  |  |  | T |  |  |  | U |  |  | L |  | 15  I |  |  |  |  |  |  |
|  |  |  |  |  |  |  | R |  |  |  |  |  |  | Y |  |  |  | N |  |  | E |  | N |  |  |  |  |  |  |
|  |  |  |  |  |  | 16  W | E | G | E | N | E | R |  |  |  |  |  | D |  |  | Y |  | N |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | T |  |  | 17  R | I | N | G | 18  O | F | F | I | R | E |  |  |  | R |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | 19  C | O | N | V | E | R | G | E | N | T | B | O | U | N | D | A | R | Y |  |  |  |  |  |
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|  |  |  |  |  |  |  | 20  T | E | C | T | O | N | I | C | P | L | A | T | E | S |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  | 21  M | A | N | T | L | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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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. |