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| **Science 8**  **Plate Tectonics and Boundaries Worksheet** | **Name: Date: Block:** |

1. Match the term with the descriptor:

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| Term | Descriptor |
| **D** Continental drift theory | A. The region where magma breaks through Earth’s surface, continually forcing apart old rock and forming sea floor |
| **E** Plate tectonic theory | B. The large slabs or rock that form Earth’s surface and move over a layer of partly molten rock |
| **C** Pangaea | C. The original super continent |
| **L** Magma | D. The theory that the crust is broken up into large plats that move and then rejoin |
| **F** Mid-Atlantic Ridge | E. A process that provides an explanation for continental drift |
| **A** Sea floor spreading | F. A long mountain range running north to south down the length of the Atlantic Ocean |
| **J** Convergent plate boundary | G. The most inner layer of the Earth |
| **H** Divergent plate boundary | H. An area where tectonic plates are spreading apart |
| **N** Transform plate boundary | I. The most outer layer of the Earth |
| **I** Crust | J. An area where tectonic plates collide |
| **M** Mantle | K. The second most inner layer of the Earth |
| **G** Inner Core | L. Hot fluid below or within the Earth’s crust |
| **K** Outer Core | M. The layer of the Earth where convection currents occur |
| **B** Tectonic plates | N. An area where tectonic plates slide past one another |

1. What is a tectonic plate?

The large slabs or rock that form Earth’s surface and move over a layer of partly molten rock

1. What is the Mid-Atlantic Ridge and how was it formed?

A ridge system situated in the middle of an ocean basin. It is formed by the upwelling of magma associated with seafloor spreading due to divergent plate boundaries.

1. Identify the Mid-Atlantic Ridge on the map below.



1. **Using your plate tectonic handout**, describe the type of plate interactions that have occurred at the following geographic locations.

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| **Geographic Location** | **Plate Interaction** |
| 1. East African Rift | **Divergent** |
| 2. Juan de Fuca plate | **Convergent/Transform** |
| 3. Islands of Japan | **Convergent** |
| 4. Himalayan mountains | **Convergent** |
| 5. San Andreas Fault | **Transform** |

1. When two continental plates collide, does subduction occur? ***Explain your answer***.

No! Their densities are two low. We end up seeing folding, leading to Mtn. formation.

1. What ***geological feature*** is formed at subduction zones?

Volcanoes!