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

1. Match the term with the descriptor:

|  |  |
| --- | --- |
| Term | Descriptor |
| \_\_\_\_\_\_ Continental drift theory | A. The region where magma breaks through Earth’s surface, continually forcing apart old rock and forming sea floor |
| \_\_\_\_\_\_Plate tectonic theory | B. The large slabs or rock that form Earth’s surface and move over a layer of partly molten rock |
| \_\_\_\_\_\_ Spreading ridge | C. The original super continent |
| \_\_\_\_\_\_ Pangaea | D. The theory that the crust is broken up into large plats that move and then rejoin |
| \_\_\_\_\_\_ Magma | E. A process that provides an explanation for continental drift |
| \_\_\_\_\_\_ Mid-Atlantic Ridge | F. A long mountain range running north to south down the length of the Atlantic Ocean |
| \_\_\_\_\_\_ Sea floor spreading | G. The most inner layer of the Earth |
| \_\_\_\_\_\_ Convergent plate boundary | H. An area where tectonic plates are spreading apart |
| \_\_\_\_\_\_ Divergent plate boundary | I. The most outer layer of the Earth |
| \_\_\_\_\_\_ Transform plate boundary | J. An area where tectonic plates collide |
| \_\_\_\_\_\_ Crust | K. The second most inner layer of the Earth |
| \_\_\_\_\_\_ Mantle | L. Hot fluid below or within the Earth’s crust |
| \_\_\_\_\_\_ Inner Core | M. The layer of the Earth where convection currents occur |
| \_\_\_\_\_\_ Outer Core | N. An area where tectonic plates slide past one another |
| \_\_\_\_\_\_ Tectonic plates | O. The theory that the continents have not always been in their present locations but have not moved over millions of years. |

1. What is a tectonic plate?
2. What is the Mid-Atlantic Ridge and how was it formed?
3. Identify the Mid-Atlantic Ridge on the map below.



1. Using your notes and/or the internet, describe the type of plate interactions that have occurred at the following geographic locations.

|  |  |
| --- | --- |
| **Geographic Location** | **Plate Interaction** |
| 1. East African Rift |  |
| 2. Juan de Fuca Plate & North American Plate |  |
| 3. Islands of Japan |  |
| 4. Himalayan mountains |  |
| 5. San Andreas Fault |  |

1. When continental plates collide, does subduction occur? Explain your answer.
2. What geological feature is formed at subduction zones?