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| **Science 8**  **Earth Science Unit Review** | **Name: Date: Block:** |

1. List the five pieces of evidence that support Continental Drift Theory.
2. What land mass does Pangaea refer to?
3. Complete the following table with the layers of the Earth:

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| **Layer** | **State** |
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1. What is a tectonic plate and why does Earth have moving plates while Mars does not?
2. What is the Mid-Atlantic Ridge? Where is it found? Identify the Mid-Atlantic Ridge on the map below.



1. Use the diagram of the Mid-Atlantic Ridge below to answer the questions that follow:

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| Macintosh HD:Users:teacher:Dropbox:Screenshots:Screenshot 2016-05-30 16.25.49.png | 1. How does the thickness of the crust at location A compare to the thickness of the crust at location B? 2. Where is the youngest rock located? 3. How does the age of rock at A compare to the age of rock at D? 4. Where is magma most likely to be rising to the surface? |

1. What is seafloor spreading? Explain this process using the terms “ridge push” and “slab pull”.
2. What is a geologic hot spot? What happens when a tectonic plate passes over a hot spot?
3. Describe the theory of plate tectonics.
4. Describe the age of rocks relative to their distance from an ocean ridge at a divergent plate boundary.
5. Name and draw the three main types of tectonic plate boundaries.
6. Why does subduction occur at some kinds of tectonic plate boundaries but not at others?

1. Name a mountain range produced by continental-continental plate convergence.
2. The diagram below is a cross-section showing different types of tectonic plates and geological features.

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| \_\_\_\_\_\_\_\_ Continental-continental divergence  \_\_\_\_\_\_\_\_ Trench  \_\_\_\_\_\_\_\_ Hot spot  \_\_\_\_\_\_\_\_ Volcanic island arc  \_\_\_\_\_\_\_\_ Mid-ocean ridge | Macintosh HD:Users:teacher:Dropbox:Screenshots:Screenshot 2016-05-30 16.16.50.png |

1. Why do earthquakes and volcanoes occur at tectonic plate boundaries?