Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Mid-Ocean Ridges** |
| **What are they?** | An undersea |
| **How were they discovered?** | By the use of **\_\_\_\_\_\_\_\_\_\_\_\_\_** - device that determines the * The time it takes for the
 |
| **Where are they found?** | Most mountains in mid-ocean ridges are |

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| **Sea-Floor Spreading** |
| **Who studied Mid-Ocean Ridges?** | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**studied mid-ocean ridges and thoughtIn 1960, he introduced the idea of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **What is Sea-Floor Spreading?** | The sea floor spreads \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_both sides of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. As a result, the ocean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, carrying the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **How does Sea-Floor Spreading work?** | 1. Begins at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that forms along \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. Along ridge, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that forms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rises \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Older rock \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on both sides \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |

**So…How can the ocean floor keep from NOT getting wider and wider?**

* Ocean floor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ just keep spreading
* Ocean floor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into deep under water canyons called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	+ At trench oceanic crust \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Part of the ocean floor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at these trenches
	+ Process takes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Subduction** |
| **What is subduction?** | * A process in which the \_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ beneath deep trenches and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **What happens during subduction?**  | * As subduction occurs, \_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_ to mid-ocean ridge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from ridges and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **SO…** | Sea-floor spreading \_\_\_\_\_\_\_\_\_\_\_ subduction \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* Moves \_\_\_\_\_\_\_\_\_\_\_ floor like it’s a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| **What happens to the crust?** | * New oceanic crust is \_\_\_\_\_\_\_\_\_\_\_, but as it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the mid-ocean ridge, it \_\_\_\_\_\_\_\_\_\_\_\_\_ becoming more \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ pulls \_\_\_\_\_\_\_\_\_\_\_ crust down \_\_\_\_\_\_\_\_\_\_\_\_\_\_ trench
 |
| **Subduction and Earth’s Oceans** | * In the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ocean there are \_\_\_\_\_\_\_\_\_\_\_ trenches than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, so the ocean is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* In the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ocean there are \_\_\_\_\_\_\_\_\_\_\_\_ mid-ocean ridges than \_\_\_\_\_\_\_\_\_\_\_\_\_ so the ocean is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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