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 thought  In 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**j0434411So…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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |