

Name: \_\_\_\_\_ Hour: \_\_\_\_\_ Date: \_\_\_\_\_

# Bill Nye Video Notes: Seafloor Spreading & Plate Tectonics

\_\_\_\_\_ - a geology professor at Princeton University and Navy reservist

He used the depth sounder to measure the \_\_\_\_\_ of the ocean floor whenever a ship was out to sea.

A 12,000 mile long mountain range, they called it the "\_\_\_\_\_"

Analyzing core samples and sonar readings from around the Mid-Atlantic Ridge, Hess discovered:

- The age of the Atlantic Ocean Floor was progressively \_\_\_\_\_ the further it moved \_\_\_\_\_ from the ridge.
- The seafloor was \_\_\_\_\_

\_\_\_\_\_ was being forced up from inside the earth at the ridge, where it then formed into new \_\_\_\_\_ on the ocean floor.

The process that \_\_\_\_\_ the crust of the spreading ocean floor inside the earth is called \_\_\_\_\_.

Hess' discovery that the seafloor was spreading rescued Alfred Wegener's idea of \_\_\_\_\_ from obscurity.

- Now, there was a geological mechanism to \_\_\_\_\_ continental drift.
- By the 1960's, both ideas were synthesized into a single theory.

<p>What do we call the single theory that contains both Wegener's theory of continental drift AND Hess' discoveries of seafloor spreading?</p>	<h2>Word Bank:</h2> <p>Directions: Use the words from the Word Bank to fill out the notes.</p>	
<p>The Theory of _____</p> <p>_____</p>	<ul style="list-style-type: none"> <li>- Pangea</li> <li>- Explain</li> <li>- Molten Rock</li> <li>- Plate Tectonics</li> <li>- Subduction</li> <li>- Away</li> </ul>	<ul style="list-style-type: none"> <li>- Harry Hess</li> <li>- Older</li> <li>- Mid-Atlantic Ridge</li> <li>- Spreading</li> <li>- Crust</li> <li>- Depth</li> <li>- Recycles</li> </ul>