## Paleomagnetism and the Ocean Floor

In the continental drift hypothesis, the ocean floors were not really involved. The hypothesis proposed that the continents moved through the oceans like icebreaking ships plowing through ice. Later studies of the oceans provided one of the keys to the plate tectonic theory. You will observe how the magnetic rocks on the ocean floor can be used to understand plate tectonics.

Problem: How are the paleomagnetic patterns on the ocean floor used to determine the rate of seafloor spreading?

#### Materials

Re-created Scale from pg. 273

calculator

#### Procedure & Data

 Scientists have reconstructed Earth's magnetic polarity reversals over the past several million years. A record of these reversals is shown in <u>Figure 1</u>. Periods of normal polarity, when a compass would have pointed north as it does today, are shown in grayscale. <u>Periods of</u> reverse polarity are shown in white. Record the number of times Earth's magnetic field has had reversed polarity in the last 4 million years.

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- 13	1633	— 2 mya	
4	_	— 3 mya	
		— 4 mya	

# times reversed polarity has occurred in the last 4million years = \_\_\_

 The three diagrams in <u>Figure 2</u> illustrate the magnetic polarity reversals across sections of the mid-ocean ridges in the Pacific, South Atlantic, and North Atlantic oceans. Periods of normal polarity are shown in the same grayscale in the illustration above. Observe that the patterns of polarity in the rock match on either side of the ridge for each ocean basin.

<u>Describe</u> the patterns of polarity that you observe on either side of the ridge for each OCEAN BASIN.

Pacific Ocean:

South Atlantic Ocean:

North Atlantic Ocean:

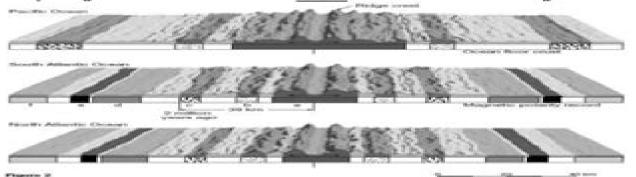
- 3. On the three ocean-floor diagrams:
- Identify and mark the periods of normal polarity with the letters a-f.

\*Begin at the ridge crest and label along both sides of each ridge.

(Hint: The left side of the South Atlantic has already been done and can act as a vuide.)

Measure from the Ridge Crest to the 2million years marking (green band - c) \*Measure the diagram in your textbook pg. 273
 Label "2 million years ago" & "distance in km" - on the left side of the Pacific diagram

Label "2 million years ago" & "distance in km" - on the left side of the and North Atlantic diagram



# **Paleomagnetism And The Ocean Floor Lab Answers**

J Elliott

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