

Online Earth Science

Oceans/Ocean Floor Lab

Instructions: Examine the pictures below. You will need to print out this lab and then complete.

How did scientist use their knowledge of seafloor spreading and magnetic field reversals to reconstruct Pangaea? Try this activity to see how you can determine where a continent may have been located in the past.

What You'll Investigate

Can you use clues, such as magnetic field reversals on Earth, to help reconstruct Pangaea?

Materials

metric ruler

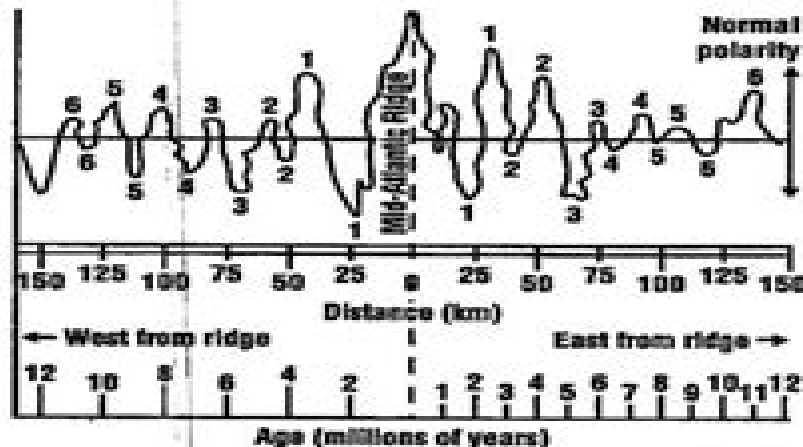
pencil

Goals

- Interpret data about magnetic field reversals. Use these magnetic clues to reconstruct Pangaea.

Procedure

1. Study the magnetic field graph below. You will be working only with normal polarity readings, which are the peaks above the baseline in the top half of the graph.
2. Place the long edge of a ruler vertically on the graph. Slide the ruler so that it lines up with the center of peak 1 west of the Mid-Atlantic Ridge.
3. Determine and record the distance and age that line up with the center of peak 1 east of the ridge. Repeat this process for peak 1 east of the ridge.
4. Calculate the average age and distance for this pair of peaks.
5. Repeat steps 2 through 4 for each remaining pair of normal-polarity peaks.
6. Calculate the rate of movement in cm per year for the six pairs of peaks. Use the formula $\text{rate} = \text{distance}/\text{time}$. Convert kilometers to centimeters. For example, to calculate a rate using normal-polarity peak 5, west of the ridge:



$$\begin{aligned}\text{rate} &= \frac{125 \text{ km}}{10 \text{ million years}} = \frac{12.5 \text{ km}}{\text{million years}} \\ &= \frac{1,250,000 \text{ cm}}{1,000,000 \text{ years}} = 1.25 \text{ cm/year}\end{aligned}$$

Lab Seafloor Spreading Rates Answers

Marco Cascella

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Lab Seafloor Spreading Rates Answers:

The book delves into Lab Seafloor Spreading Rates Answers. Lab Seafloor Spreading Rates Answers is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lab Seafloor Spreading Rates Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Lab Seafloor Spreading Rates Answers
 - Chapter 2: Essential Elements of Lab Seafloor Spreading Rates Answers
 - Chapter 3: Lab Seafloor Spreading Rates Answers in Everyday Life
 - Chapter 4: Lab Seafloor Spreading Rates Answers in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Lab Seafloor Spreading Rates Answers. This chapter will explore what Lab Seafloor Spreading Rates Answers is, why Lab Seafloor Spreading Rates Answers is vital, and how to effectively learn about Lab Seafloor Spreading Rates Answers.
3. In chapter 2, the author will delve into the foundational concepts of Lab Seafloor Spreading Rates Answers. This chapter will elucidate the essential principles that must be understood to grasp Lab Seafloor Spreading Rates Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Lab Seafloor Spreading Rates Answers in daily life. The third chapter will showcase real-world examples of how Lab Seafloor Spreading Rates Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Lab Seafloor Spreading Rates Answers in specific contexts. This chapter will explore how Lab Seafloor Spreading Rates Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Lab Seafloor Spreading Rates Answers. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Lab Seafloor Spreading Rates Answers.

<https://staging.conocer.cide.edu/results/publication/Documents/laughter%20within%20laughter%20english%20edition.pdf>

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