

# Content Practice A Chapter 7.2 Review

## LESSON 2

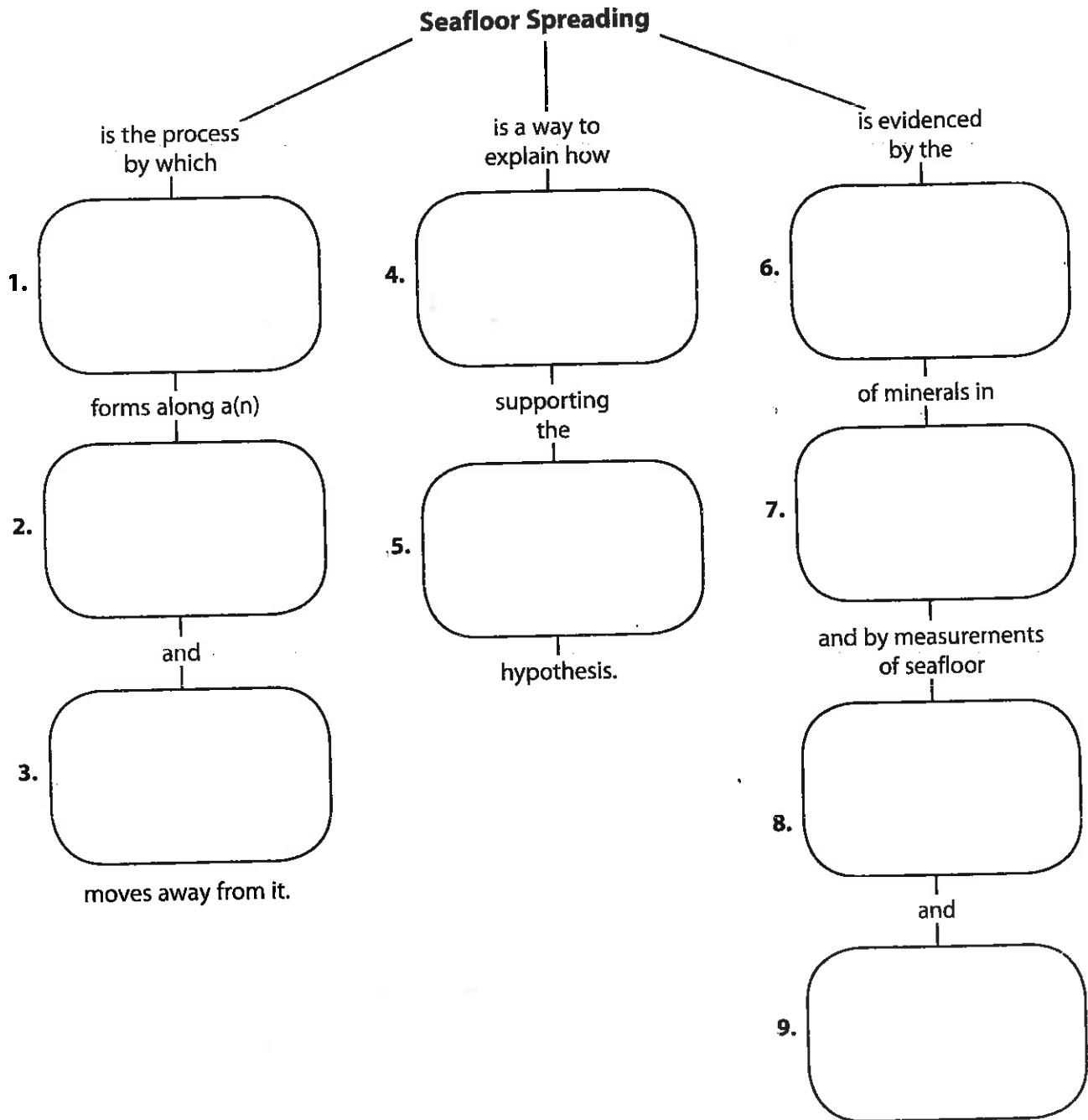
### Development of a Theory

**Directions:** Complete this concept map by choosing terms from the word bank and writing them in the correct spaces.

continental drift  
mid-ocean ridge  
rocks

continents move  
new oceanic crust  
sediment

magnetic signatures  
older oceanic crust  
temperature



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**Key Concept Builder** 

**LESSON 2**

**Development of a Theory**

**Key Concept** What is seafloor spreading?

**Directions:** Answer each question on the lines provided.

What is known about seafloor spreading	How this supports continental drift
<p>1. What forms basalt? _____ _____</p> <p>2. Which type of rock forms oceanic crust? _____</p>	<p>3. What happens to old oceanic crust as new oceanic crust forms? _____ _____</p>
<p>4. What happens to the density of rock as it cools? _____ _____</p>	<p>5. Where does the crust move as it becomes denser? _____</p> <p>6. Which force draws the cooler, denser crust downward and away from the mid-ocean ridge? _____</p>
<p>7. What is formed when lava cools and crystallizes on top of the oceanic crust? _____</p> <p>8. Where is seafloor sediment thickest? _____ _____</p>	<p>9. What shape does the seafloor take where the sediment is the thickest? _____ _____</p> <p>10. What is this area of the seafloor called? _____ _____</p>
<p>11. What is the ocean crust always doing? _____</p>	<p>12. What happens as the ocean crust spreads? _____</p>
<p>13. What does the crust record as it cools? _____ _____</p> <p>14. What does basalt contain that makes this possible? _____ _____</p>	<p>15. What forms when Earth's magnetic field changes direction? _____ _____</p> <p>16. What do magnetic stripes confirm? _____ _____</p>

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**Lesson Quiz A****LESSON 2****Development of a Theory****Matching**

**Directions:** On the line before each definition, write the letter of the term that matches it correctly. Each term is used only once.

- |  |                              |
|--|------------------------------|
| _____ 1. Magnets point north when Earth's magnetic field has this. | <b>A.</b> magnetic reversal  |
| _____ 2. process that forms new oceanic crust and moves it         | <b>B.</b> mid-ocean ridge    |
| _____ 3. takes place when Earth's magnetic field changes           | <b>C.</b> normal polarity    |
| _____ 4. Magnets point south when Earth's magnetic field has this. | <b>D.</b> reversed polarity  |
| _____ 5. place where new oceanic crust forms                       | <b>E.</b> seafloor spreading |

**True or False**

**Directions:** On the line before each statement, write T if the statement is true or F if the statement is false.

- \_\_\_\_\_ 6. Seafloor spreading takes place along a mid-ocean ridge.
- \_\_\_\_\_ 7. Oceanic crust is older when it is closer to a mid-ocean ridge than it is when it is farther from the ridge.
- \_\_\_\_\_ 8. The high thermal-energy flow at a mid-ocean ridge comes from seawater.
- \_\_\_\_\_ 9. Magnetic bands on the ocean floor are evidence that Earth's magnetic field changes.
- \_\_\_\_\_ 10. Knowledge of seafloor spreading could have helped Alfred Wegener gain more support for his hypothesis of continental drift.

**Lesson Quiz B**

**LESSON 2**

**Development of a Theory**

**Completion**

**Directions:** *On each line, write the term that correctly completes each sentence.*

1. A(n) \_\_\_\_\_ is a mountain range on the ocean floor where new crust forms.
2. When Earth's magnetic field has normal polarity, a compass needle points \_\_\_\_\_.
3. \_\_\_\_\_ contributes to the high thermal-energy-flow readings near the center of a mid-ocean ridge.
4. \_\_\_\_\_ are changes in the orientation of Earth's magnetic field.
5. The abyssal plain is flat due to an accumulation of \_\_\_\_\_ far from the ridge.
6. When Earth's magnetic field has reversed polarity, a compass needle points \_\_\_\_\_.
7. \_\_\_\_\_ on the ocean floor are evidence that Earth's magnetic field changes.

**Short Answer**

**Directions:** *Respond to each statement on the lines provided.*

8. **List** the steps involved in seafloor spreading in sequential order.

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9. **Explain** how knowledge of seafloor spreading could have been useful to the acceptance of Alfred Wegener's continental drift hypothesis.

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