

Keeping Things Hot or Cold

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Review of Heat and Temperature Concepts

Name: _____

Date: _____

Answer the following questions based on what you learned about insulators and their properties.

1. What is the main purpose of an insulator?

- A. To speed up heat transfer
- B. To slow down heat transfer
- C. To create heat

2. Insulators create a ____ to slow heat movement.

3. Name two materials that can act as insulators. Why are they effective?

4. Draw a line from the insulator to its use.

Styrofoam

Keeps drinks hot

Blanket

Keeps you warm

5. According to Proverbs 3:19-20, who founded the earth?

- A. The wise man
- B. Yahweh
- C. The scientists

6. God's wisdom is shown in the way materials interact with ____ and temperature.

7. How can we use insulators in our daily lives? Give one example.

8. Why is it important to keep things at a steady temperature?

- A. To make them look nice
- B. To prevent them from melting or spoiling
- C. To change their color

9. Insulators help keep ice from melting by slowing down the transfer of ____ from the air.

10. What worked best in your insulation investigation to keep the ice from melting? Why do you think it worked well?

Answer Key

1. To slow down heat transfer 2. barrier 3. wool and foam 4. Keeps drinks hot 5. Yahweh 6. heat 7. to prevent them from melting or spoiling 8. heat 9. Styrofoam 10. The container made of Styrofoam worked best because it slowed down the heat transfer from the room to the ice.