

Name: _____ Date: _____

Sizzling Science Thermal Expert Pre-K Quiz

Preschoolers analyze energy flow and thermal changes in 10 advanced scenarios through predictive thinking and material evaluation.

1. You have two toy cars. One was in the freezer and one was under a sunny window. Which car wants to 'steal' heat from your warm hand to feel balanced?

- A. The car from the sunny window
- B. The car from the freezer
- C. Both cars equally
- D. Neither car

2. When you put a cold metal slide in the sun, it can eventually get hotter than your skin because it is better at catching sun energy.

- A. True
- B. False

3. If we want to keep a penguin ice sculpture from melting, we should wrap it in a ___ blanket.

- A. Thin paper
- B. Thick wool
- C. Wet cotton
- D. Metal foil

4. Look at a steaming bowl of oatmeal. Where does the 'ghostly' steam go when the oatmeal gets cold?

- A. It turns back into oatmeal
- B. It carries heat away into the air
- C. It hides in the bottom of the bowl
- D. It turns into ice

5. Imagine you are an engineer. To stop heat from leaving a house in winter, you should block the ___.

- A. Lights
- B. Floor
- C. Gaps in windows
- D. Paintings

6. If you put a hot potato and a cold potato together in a box, they will eventually both become the same 'medium' temperature.

- A. True
- B. False

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7. If you stir a cup of hot cocoa with a plastic spoon and a silver spoon, which one will send a 'heat signal' to your fingers first?

- A. The plastic spoon
- B. The silver spoon
- C. Neither spoon
- D. They feel the same

8. When we rub our hands together very fast, we are turning ___ into heat.

- A. Shadows
- B. Movement
- C. Wind
- D. Water

9. A refrigerator is a magic machine that creates 'cold' out of nothing without using any power.

- A. True
- B. False

10. Why does a marble floor feel colder than a rug, even if they have been in the same room all night?

- A. The marble is actually frozen
- B. The rug makes its own heat
- C. The marble pulls heat out of your feet faster
- D. The rug is closer to the sun