

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Bears, Blankets, and Boiling: Pre-K Heat Heroes Quiz

Solve thermal puzzles by predicting how warmth moves through a snowy forest and designing ways to keep a polar bear's cocoa hot.

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**1. If we want to build a house for a penguin that keeps the cold wind out and the warm air in, which material should we use to make it 'snuggly'?**

- A. A sheet of cold, flat metal
- B. Thick, fuzzy wool blankets
- C. A clear glass window
- D. A wet paper towel

**2. If you hold a cold ice cube in your warm hand, the 'cold' jumps into your hand to make it shivery.**

- A. True
- B. False

**3. You have a cup of hot soup and a cup of cold juice. If you pour them together into a big bowl, the new mixture will be \_\_\_\_.**

- A. Boiling hot
- B. Frozen like ice
- C. Warm, in the middle
- D. Dry like sand

**4. A dragon breathes fire on a giant rock. The rock gets hot, but then the dragon stops. What happens to the heat in the rock after a long time?**

- A. The rock stays hot forever
- B. The heat hides inside the center
- C. The heat spreads out into the cool air
- D. The rock turns into a liquid

**5. Imagine you are wearing a black shirt and your friend is wearing a white shirt on a sunny day. You will feel \_\_\_\_ than your friend.**

- A. Colder
- B. Wetter
- C. Warmer
- D. Taller

**6. If you rub your hands together very, very fast, they will start to feel warm.**

- A. True
- B. False

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**7. We want to make a 'Robot Refrigerator.' To make the inside cold, what must the robot do with the heat?**

- A. Eat the heat and keep it
- B. Push the heat out into the kitchen
- C. Make the heat disappear forever
- D. Turn the heat into water

**8. A lizard sits on a hot brick in the sun. The lizard's tummy gets warm because of \_\_\_\_.**

- A. Magic
- B. Touching the hot brick
- C. The wind blowing
- D. Holding an umbrella

**9. Energy can be totally destroyed if we put it in a very strong box.**

- A. True
- B. False

**10. If we could make a toy car that was 'super-duper cold' (Absolute Zero), what would happen to its tiny molecules inside?**

- A. They would dance very fast
- B. They would turn into bubbles
- C. They would stop moving almost completely
- D. They would catch on fire