Name: _____ **Date:** _____

Heat Hero Challenges for Kindergarten

Can your students predict where the heat will hide? Young scientists will analyze heat flow and material changes in these challenging scenarios.

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1. If you leave a cold popsicle and a warm cookie on a table in a sunny room, what will eventually happen to both of them?

A. They will both stay the same forever
B. They will both become the same temperature as the room
C. The popsicle will get colder
D. The cookie will get warmer

2. If you have a hot cup of cocoa, the heat energy can travel through the air to reach your cold hands without you touching the cup.

A. True
B. False

3. You place a metal spoon and a plastic spoon into a warm bowl of soup. Which spoon will feel the hottest to touch after one minute?

A. The plastic spoon
B. Both will feel the same
C. The metal spoon
D. Neither will get warm

4. Imagine you are wearing a black shirt and your friend is wearing a white shirt on a very sunny day. Why do you feel much hotter than your friend?

A. Dark colors soak up more heat from sunlight
B. White shirts make their own ice
C. Black shirts are always heavier
D. The sun only shines on dark colors

5. When you put an ice cube into a glass of warm water, the 'coldness' moves from the ice into the water.

A. True
B. False

6. If you hold a piece of chocolate in your hand, it melts. Where did the heat energy come from to make the chocolate change?

A. The air in the room
B. Your warm body
C. The floor
D. The chocolate itself

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7. A scientist wants to keep a cup of juice cold. Which material would be the BEST 'Heat Trapper' (insulator) to wrap around the cup?

A. Thin aluminum foil
B. A thick wool sock
C. A metal wire
D. Wet paper

8. If you rub your hands together very quickly, they will start to feel warm.

A. True
B. False

9. You have two bowls of soup. One is very hot and one is just warm. Which one will lose its heat to the cool air faster?

A. The very hot soup
B. The warm soup
C. They lose heat at the same speed
D. Neither loses heat

10. If a bird wants to stay warm during a snowy day, why does it fluff up its feathers?

A. To look bigger and scarier
B. To trap a layer of air that keeps its body heat in
C. To catch more snowflakes
D. To make it easier to fly