

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

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

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1. Four different spoons were put into a pan of boiling water. Which spoon will have a hot handle first?

- A. metal spoon
- B. rubber spoon
- C. wooden spoon
- D. plastic spoon

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2. Which is a source of heat energy?

- A. rain
- B. fire
- C. wind
- D. water

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3. Which is an insulator?

- A. copper coin
- B. aluminum ladder
- C. glass
- D. water

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4. Kelly put a glass of ice and lemonade in the sunlight during the summer. What would Kelly see if she left it there for forty minutes?

- A. more lemonade in the glass
- B. more ice in the glass
- C. less lemonade in the glass
- D. less ice in the glass

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5. If you put a metal spoon in hot water, the spoon will

- A. melt.
- B. dissolve.
- C. get cold.
- D. get hot.

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6. Solar energy comes from

- A. the Sun.
  - B. tides.
  - C. oil.
  - D. fossils.
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7. When heat from the Sun comes through the atmosphere and heats Earth it is called

- A. conduction.
  - B. convection.
  - C. radiation.
  - D. conservation.
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8. Bob is in the kitchen making dinner. Heating water will help him to

- A. cool the drinks.
  - B. make ice cubes.
  - C. cook noodles.
  - D. clean the vegetables.
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9. What happens to the liquid inside the thermometer when the temperature increases?

- A. It expands and gets taller.
  - B. It contracts and gets shorter.
  - C. It changes into a gas.
  - D. It changes into a solid.
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10. Jona stepped into the warm ocean water, swam out farther, and dove down into the water. He noticed the water getting colder as he went down. Why did the ocean water get colder as he went deeper?

- A. His body temperature dropped when he dove.
  - B. There was less sunlight as the water became deeper.
  - C. There was more cool sand as the water became deeper.
  - D. The water felt colder on his feet than on his hands.
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11. Most of the heat created by rubbing hands together is caused by

- A. static electricity.
  - B. air between the hands.
  - C. friction.
  - D. sweating.
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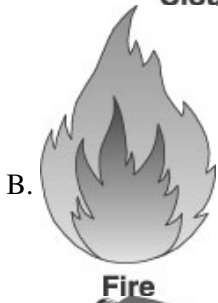
12. Use the picture below to answer this question.



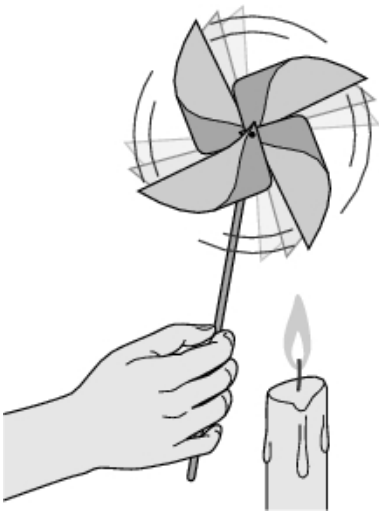
The temperature reading is

- A. 10°C.
  - B. 12°C.
  - C. 15°C.
  - D. 20°C.
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13. What makes the most heat energy?



14. Look at the picture of a spinning pinwheel held over a lit candle.



Which of these BEST explains why the pinwheel is spinning?

- A. heat energy from the candle
  - B. solar energy from the candle
  - C. heat energy from the pinwheel
  - D. wind energy from the pinwheel
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15. Ellie's grandmother asked her to stir hot soup cooking on the stove. Which spoon should she use to be safe?

- A. a metal spoon
  - B. a wooden spoon
  - C. a plastic spoon
  - D. an iron spoon
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16. What is the purpose of the plastic coating usually found on electric wires?

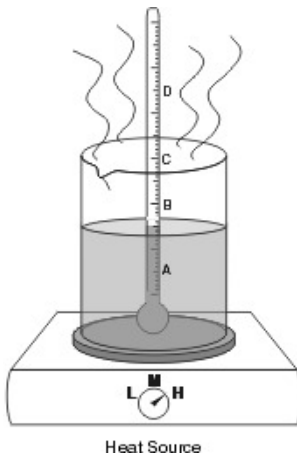
- A. to strengthen the wires
  - B. to prevent electric shocks
  - C. to make better connections
  - D. to keep the wires from getting hot
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17. Monica is wearing a black shirt. Michael is wearing a white shirt. Why does Monica's black shirt feel warmer in the sunlight?

- A. Dark colors absorb more heat.
  - B. The white shirt was thicker.
  - C. Sunlight fades most colors.
  - D. All colors reflect heat.
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18.

Use the picture below to answer this question.



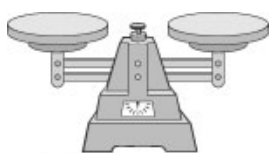
Morgan is doing a science experiment. When the water in the beaker is heated, the thermometer reading will go from

- A. A to B to C to D.
  - B. D to B to A to C.
  - C. C to A to B to D.
  - D. B to C to D to A.
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19. Maria's dad is making soup. There is a wooden spoon and a metal spoon in the pan. Why is the metal spoon warmer than the wooden spoon?

- A. Wood conducts heat.
  - B. Wood radiates heat.
  - C. Metal conducts heat.
  - D. Metal radiates heat.
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20. Which instrument should you use to find out if water is about to boil?



A.

balance scale



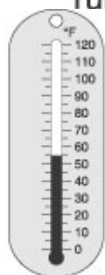
B.

stopwatch



C.

ruler



D.

thermometer

**Answer Key**

1. A) metal spoon
2. B) fire
3. C) glass
4. D) less ice in the glass
5. D) get hot.
6. A) the Sun.
7. C) radiation.
8. C) cook noodles.
9. A) It expands and gets taller.
10. B) There was less sunlight as the water became deeper.
11. C) friction.
12. B) 12°C.
13. B)
14. A) heat energy from the candle
15. B) a wooden spoon
16. B) to prevent electric shocks
17. A) Dark colors absorb more heat.
18. A) A to B to C to D.
19. C) Metal conducts heat.
20. D)