

# Unit 5 Review

Name \_\_\_\_\_

## Vocabulary Review

Use the terms in the box to complete the sentences.

heat  
temperature

1. The \_\_\_\_\_ of an object is a measure of how hot or cold the object is.
2. Energy that moves from warmer objects to cooler objects is \_\_\_\_\_.

## Science Concepts

Fill in the letter of the choice that best answers the question.

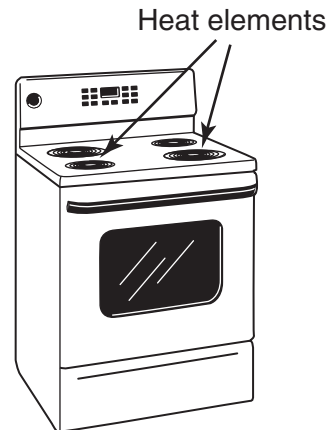
3. Lucas is having a birthday party. He has ice cream, balloons, and a cake with candles.



Which of the objects shown in the picture produces the most heat?

- (A) cake
- (B) candles
- (C) balloon
- (D) ice cream

4. Hiroto wants to warm a pot of soup on a stove. He will put the pot onto one of the stove's heat elements and turn it on.



Which heat element does Hiroto know is very hot, without touching them?

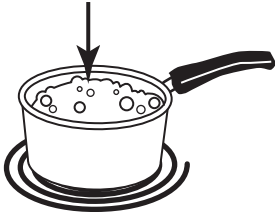
- (A) the biggest one
- (B) the smallest one
- (C) the one that glows red
- (D) the one that looks dark

## Science Concepts

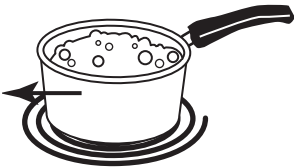
Fill in the letter of the choice that best answers the question.

5. Sandra's mother is boiling water on a stove. In which picture does the arrow show the direction that heat moves to make the water boil?

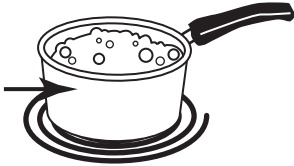
(A)



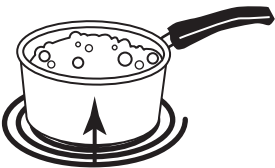
(B)



(C)



(D)



6. Nolan picks up a book from his desk and hands it to his teacher. His teacher sets the book down and slides it across a table. Which action produces the most heat?

- (A) sliding the book across a table
- (B) handing the book to his teacher
- (C) setting the book down on a table
- (D) picking the book up from his desk

7. Marvin and Byron both hold a thermometer close to a light bulb. After 2 minutes, they record their measurement. Marvin records 67 °C. Byron records 65 °C. Why might they have different results?

- (A) The light bulb is not the same temperature on all sides.
- (B) Marvin held his thermometer closer to the bulb than Byron did.
- (C) One of the thermometers was not working correctly.
- (D) Marvin read the Fahrenheit temperature instead of the Celsius temperature.

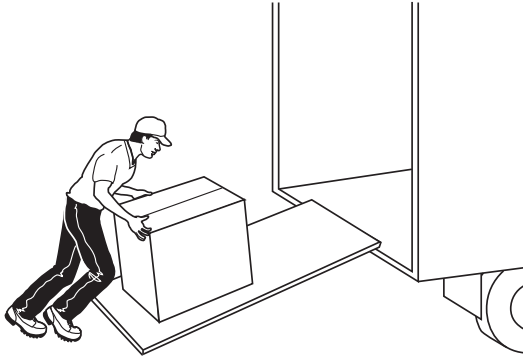
8. Jamal is toasting marshmallows over a campfire.



Which of the following signs shows that the fire is probably hot?

- (A) It has sticks in it.
- (B) It has bright flames.
- (C) It has ashes around it.
- (D) It has sand under the logs.

9. A mover pushes a box up a ramp into a truck.



Which two things become warmer when the man pushes the box?

- (A) box and air
- (B) ramp and box
- (C) man and truck
- (D) truck and ramp

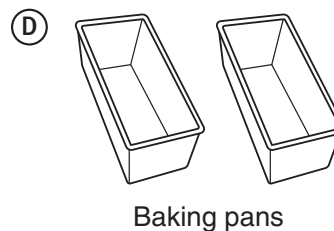
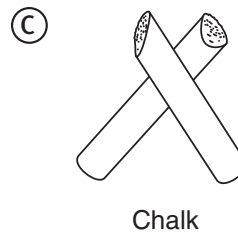
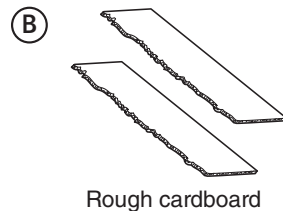
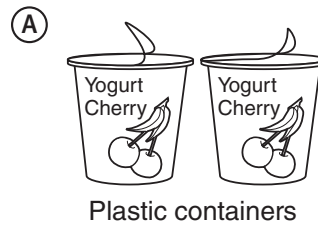
10. Jason is sanding a board with sandpaper. He puts a piece of sandpaper around a block of wood and sands the board. Which of the following terms has a specific meaning in science that could relate to Jason's activity?

- (A) experiment
- (B) evidence
- (C) heat
- (D) sanding

11. Which color of shirt would help you stay cooler on a hot, sunny day?

- (A) purple
- (B) white
- (C) maroon
- (D) black

12. Matthew's class investigates friction between smooth items and rough items. They find that rough items produce more friction. Which of the following items would create the most heat if rubbed together for 20 seconds?



## Apply Inquiry and Review the Big Idea

Write the answers to these questions.

13. Jenna and Tanner want to decrease the friction between a wooden block and a ramp. They have tried two objects already and will try others.

Ramp covering	How object moved	
	Faster	Slower
Plastic tablecloth	X	
Cloth tablecloth		X

- a. Next, they would like to test either a plastic cover or a bed sheet. Based on the evidence they have gathered, which is **most likely** to create the least amount of friction on the ramp? Explain your answer.

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- b. A block is pushed up a ramp that is covered in carpet. The same block is pushed up the same ramp that is covered with a curtain. How will the temperatures of the block after each trial compare? Explain your answer.

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14. Franco uses a thermometer to determine the effect of sunlight on different parts of a car. He measures the temperatures of the black and white sections of a tire in direct sunlight. Predict how the temperatures would compare.

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