

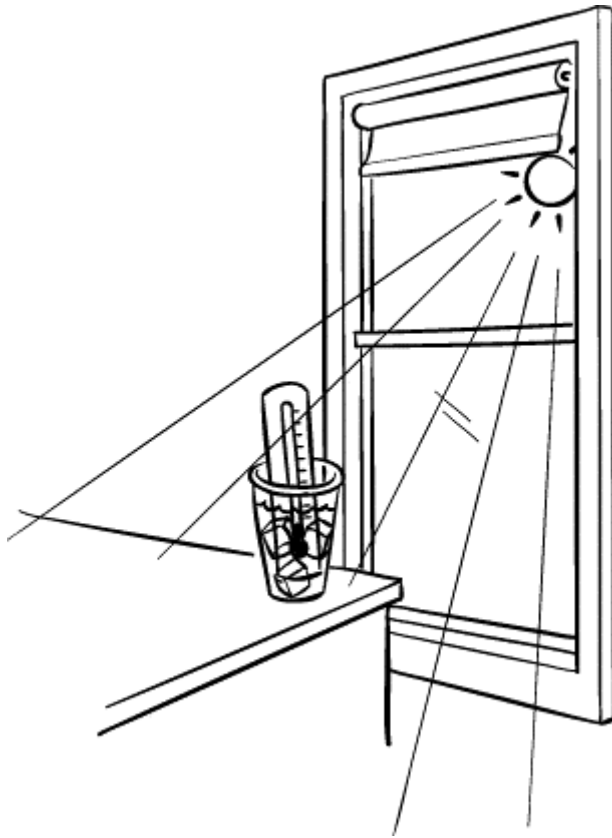
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TAKS Practice Test**

**Grade 2, Chapter 5
Heat**

Name _____

Date _____

Use the picture to answer Questions 1, 2, and 3.

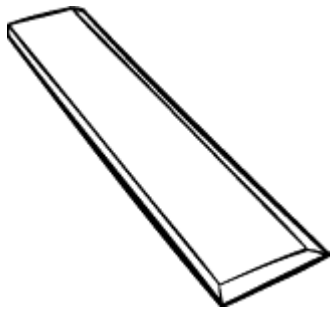


Sally puts water, ice cubes, and a thermometer in a cup.
She places the cup in a sunny place.
For the next 15 minutes, she observes the ice cubes melt.

- 1 What does the thermometer tell?
- The temperature inside the cup
 - The temperature outside the cup
 - The length and width of the cup
 - The size of the ice cubes

- 2** Why do the ice cubes melt?
- Heat moves from the warm room into the cold cup.
 - Heat moves from the cold cup into the warm room.
 - Ice cubes always melt in 15 minutes.
 - The thermometer melts the ice cubes.

- 3** What happens to the temperature inside the cup as the ice cubes melt?
- The temperature falls.
 - The temperature rises.
 - The temperature stays the same.
 - The temperature rises, then falls.



- 4** What would change a plastic bar into a ruler?
- The numbers 1 to 10 on the bar, in any order
 - Ten holes in the bar
 - A mark and number every centimeter along the bar
 - A line through the center of the bar

Use the pictures and words to answer Questions 5 and 6.



The stove uses natural gas to cook food.

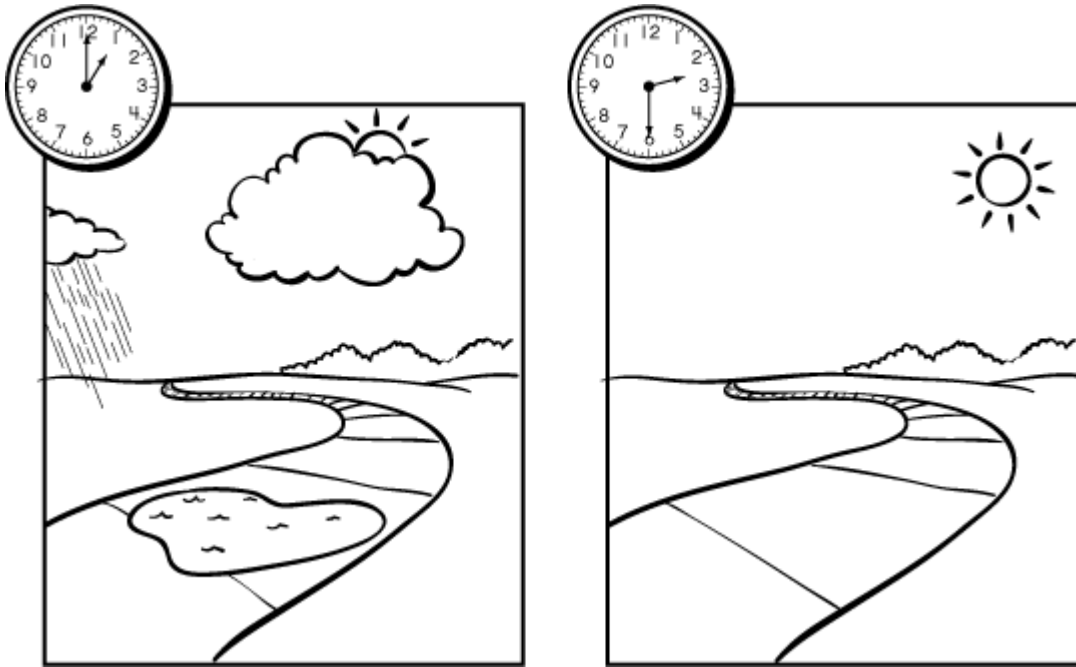
5 Natural gas is an example of a _____.

- living thing
- liquid
- food
- fuel

6 Where does natural gas come from?

- The air
- Farms and ranches
- The remains of dead plants and animals
- Living plants and animals

Use the pictures and words to answer Questions 7, 8, and 9.



The rain makes a puddle on the sidewalk.

Later, the puddle dries up.

The clocks show the times that the drawings were made.

7 What happened to the water as the puddle dried?

- The water condensed.
- The water froze
- The water evaporated.
- The water froze into the sidewalk.

8 Where did the energy come from to dry the puddle?

- Gravity
- The Sun
- The sidewalk
- The rain

- 9** How much time passed between the two drawings shown here?
- 1 hour
 - 1 hour and 30 minutes
 - 2 hours
 - 2 hours and 30 minutes
- 10** What kinds of materials can heat move through?
- Solids only
 - Liquids only
 - Gases only
 - Solids, liquids, and gases
- 11** The bodies of most mammals are covered in hair or fur. Predict which of these mammals have the thickest fur.
- Mammals that live in Canada and other cold places
 - Mammals that live in Mexico and other warm places
 - Mammals that live in trees or underground
 - Mammals that live in zoos

Use the pictures and words to answer Questions 12, 13, and 14.



Pitcher of ice water



Foam cup



Paper cup



Metal cup

Here are the steps for a science activity.

1. Fill each cup with ice water.
Cover each cup with its lid.
2. Feel the outside of each cup.
Which feels coldest? Which feels warmest?
3. Feel the cups again in 30 seconds and 60 seconds.
Record what you observe.

Here are the results.

Observations	Start	30 seconds	60 seconds
Foam Cup	warm	warm	warm
Paper Cup	cool	cold	cold
Metal Cup	very cold	very cold	very cold

- 12** What makes the three cups different from one another?
- What they are made of
 - What is inside them
 - Their sizes and shapes
 - How tall they are
- 13** What do the results show about heat and foam?
- Heat travels from foam.
 - Heat travels toward foam.
 - Heat travels very quickly through foam.
 - Heat travels very slowly through foam.
- 14** Which of these products acts most like the foam in the activity?
- A plastic bag filled with potato chips
 - A metal spoon in a hot bowl of soup
 - A thin summer coat
 - A thick winter coat

ANSWER KEY and CORRELATIONS:

Question	Answer	TAKS	McGraw-Hill Science Grade 2 textbook
1	The temperature inside the cup	5.4A	p. 102
2	Heat moves from the warm room into the cold cup.	5.8A, 5.5B	p. 108
3	The temperature rises.	5.8A, 5.5B	p. 103
4	A mark and number every centimeter along the bar	5.4A	p. 102
5	fuel	3.11A	p. 104
6	The remains of dead plants and animals	5.11C	p. 104
7	The water evaporated.	5.11A, 5.6B	p. 101
8	The Sun	4.11C	p. 101
9	1 hour and 30 minutes	5.4A	p. R16
10	Solids, liquids, and gases	5.7A	pp. 108-110
11	Mammals that live in Canada and other cold places	5.7A, 5.9C	p. 113
12	What they are made of	5.2B	p. 107
13	Heat travels very slowly through foam.	5.7A, 5.2C, 5.2E	p. 109
14	A thick winter coat	3.3B, 5.7A	p. 109