

Maryland School Assessment

Science

2008 Public Release

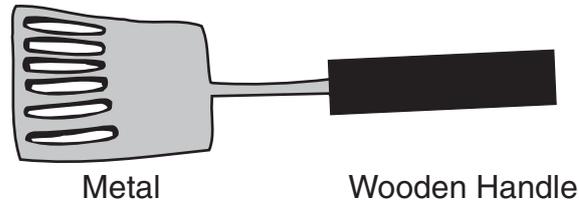
Grade 5

Part 2



Part 2

- 12 Some metal tools used for cooking have wooden handles.



Which property of wood makes it a good material for the handle on a cooking tool?

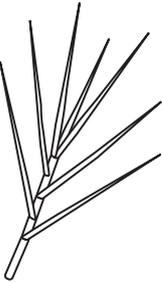
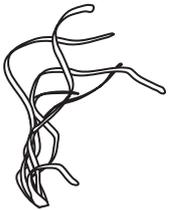
- A Wood is a natural material.
- B Wood is unaffected by metal.
- C Wood does not conduct heat well.
- D Wood does not conduct electricity well.

Part 2

Directions

Use the information below to answer Numbers 13 through 15.

A scientist studied an estuary, the area where fresh water from a river empties into salty ocean water. The scientist classified nine estuary organisms into the three groups shown below.

Birds	Plants	Animals
 <p>Great Blue Heron</p>	 <p>Salt Grass</p>	 <p>Blue Crab</p>
 <p>Laughing Gull</p>	 <p>Eelgrass</p>	 <p>Horseshoe Crab</p>
 <p>Osprey</p>	 <p>Sallow Sedge</p>	 <p>Hard Clam</p>

Part 2

13 The physical features of an animal are described in the table below.

Physical Features
<ul style="list-style-type: none">• Hard shell• Hinged shell• Fleshy inside

Which animal best fits this description?

- A blue crab
- B hard clam
- C laughing gull
- D sallow sedge



Part 2

- 14** Some young fish develop in estuaries. While these fish develop, they hide in water plants. When the fish reach a certain age, they leave for the ocean.

If the water plants were removed from the estuary, the young fish would

- A** decrease in number
- B** move to a new estuary
- C** find another food source
- D** swim to the ocean earlier

- 15** Which organism in the estuary relies on the sun to make food?

- A** horseshoe crab
- B** hard clam
- C** salt grass
- D** osprey

Part 2

16 A student leaves a bucket of water outside on a warm, sunny day.

Which process most likely happens to the water in the bucket?

- A** melting
- B** freezing
- C** evaporation
- D** condensation



Part 2

18 People use water in different ways.

Which of these activities wastes water?

- A** filling a glass with water
- B** leaving a faucet on
- C** soaking vegetables in water to clean them
- D** adding cups of water as directed by a recipe

19 In October, the constellations Gemini and Orion appear in the sky after midnight. In January, Orion appears at sunset.

At which time will Gemini most likely appear in January?

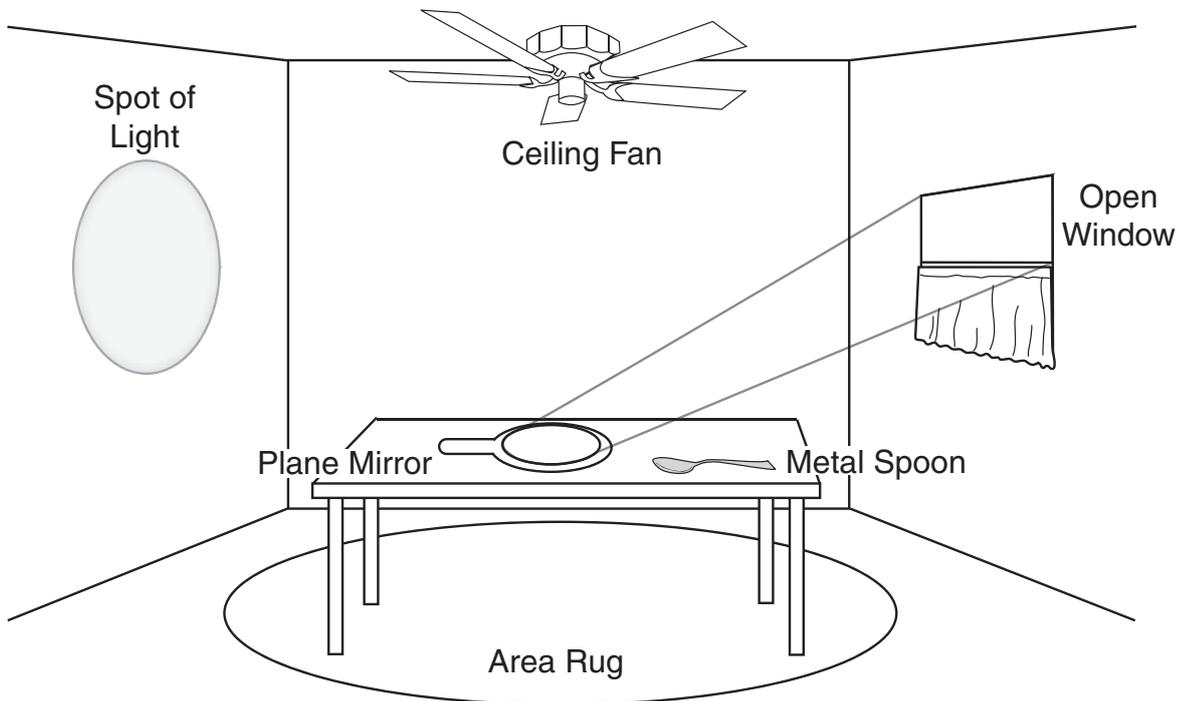
- A** at noon
- B** at sunset
- C** after midnight
- D** before sunrise

Part 2

Directions

Use the information below to answer Numbers 20 through 22.

Sunlight enters a room through an open window. The sunlight shines on the wood table, area rug on the floor, and the plane mirror and metal spoon on the table. A spot of light appears on the wall opposite the window.



Part 2

20 Which object in the room is the best conductor of heat?

- A** the area rug
- B** the wood table
- C** the plane mirror
- D** the metal spoon

21 An image of the ceiling fan appears in the plane mirror on the table.

How does the image of the fan in the mirror compare to the actual fan on the ceiling?

- A** larger
- B** smaller
- C** reversed
- D** upside down

22 Which tool should be used to measure the length of the table?

- A** a balance
- B** a stopwatch
- C** a spring scale
- D** a centimeter ruler



Acknowledgements

“Hazy Summer Days and Air Pollution” by Sarah Ives, National Geographic Kids News. July 27, 2004 ([http://news.nationalgeographic.com/kids/2004/07/Hazy summer.html](http://news.nationalgeographic.com/kids/2004/07/Hazy%20summer.html))

“Glaciers and People” by Spencer Christian and Antonia Felix. From WHAT MAKES THE GRAND CANYON GRAND? THE WORLD'S MOST AWE-INSPIRING NATURAL WONDERS by Spencer Christian and Antonia Felix. Copyright © 1998 by Spencer Christian and Antonia Felix. Reprinted with permission of John Wiley & Sons, Inc.