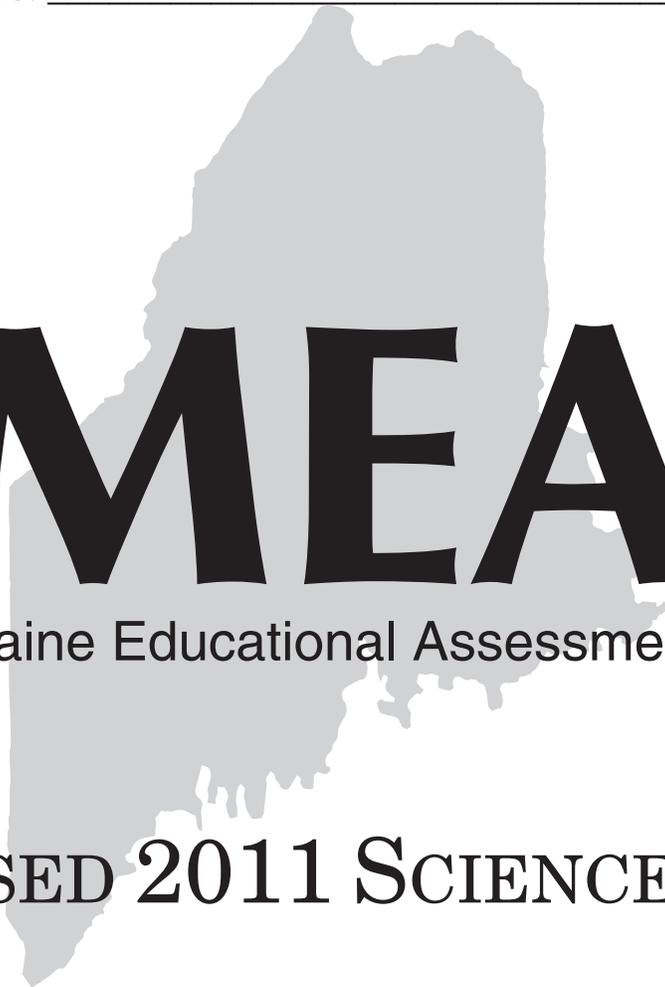


GRADE 5

STUDENT PRACTICE TEST BOOKLET

Student Name: _____



MEA

Maine Educational Assessment

RELEASED 2011 SCIENCE ITEMS

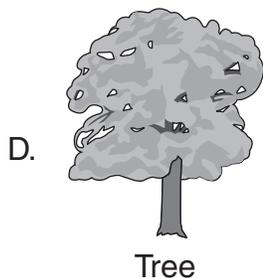
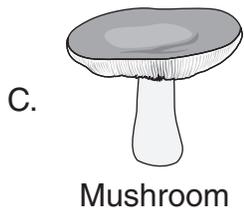
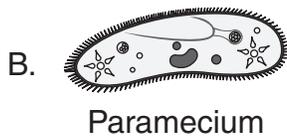
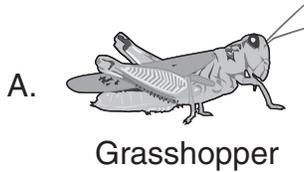
Maine Department of Education

SCIENCE PRACTICE TEST

This practice test has sixteen multiple-choice questions and two constructed-response questions.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 1 through 16 on page 2 of your practice test answer booklet.

1 Which organism has only one cell?



2 Which of the following is a trait that can be passed on from human parents to their children?

- A. freckles
- B. job
- C. broken bones
- D. education

3 A jar and three ice cubes weigh 30 g. What do the jar and the water weigh after the ice cubes melt?

- A. 10 g
- B. 30 g
- C. 60 g
- D. 90 g

PLEASE GO ON →

- 4 The Sphinx, shown in the picture below, is a large stone figure in the desert of Egypt.



What **most likely** damaged the Sphinx?

- A. ice
- B. snow
- C. waves
- D. wind

- 5 A ball rolls across a level floor. Which information can be used to help find the speed of the ball?

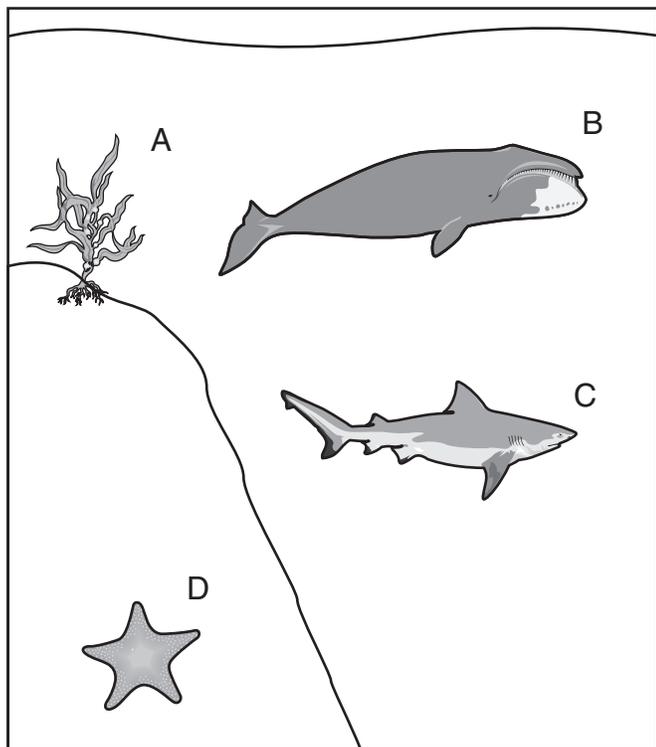
- A. the roughness of the floor
- B. the size of the ball
- C. the weight of the ball
- D. the time it takes the ball to roll 5 meters

- 6 Sometimes gray squirrels have offspring that have white fur. What could be an effect of the offspring having white fur?

- A. The offspring could collect food in the winter.
- B. The offspring could attract a mate more easily.
- C. The offspring could eat foods other than seeds or nuts.
- D. The offspring could be seen by predators most of the year.

PLEASE GO ON ➔

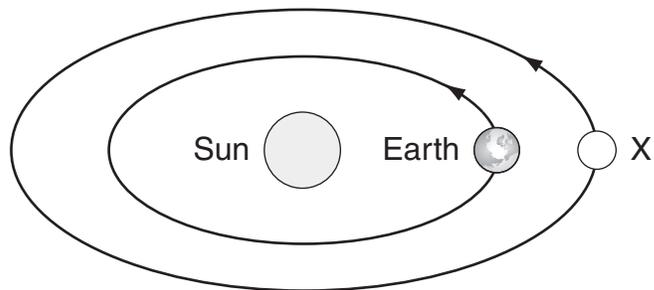
- 7 The picture below shows organisms that live in the ocean.



Which organism makes its own food?

- A. organism A
- B. organism B
- C. organism C
- D. organism D

- 8 The diagram below shows a part of the solar system.

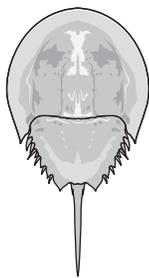


Object X is **most likely**

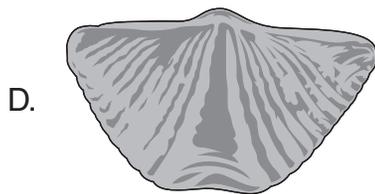
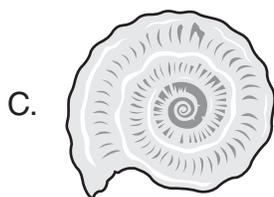
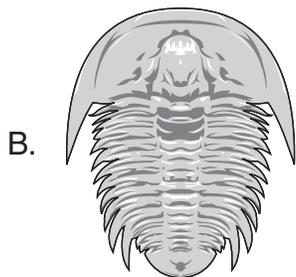
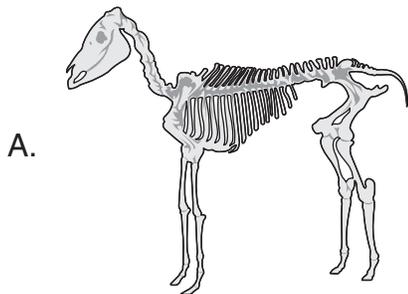
- A. a star.
 - B. a moon.
 - C. a planet.
 - D. a sun.
- 9 A spoonful each of salt, sand, and tiny pieces of iron are mixed together. Which statement **best** describes what happens to the three materials after they form a mixture?
- A. They all dissolve in water.
 - B. They all have magnetic properties.
 - C. They all combine to form one color.
 - D. They all keep their individual properties.

PLEASE GO ON ➔

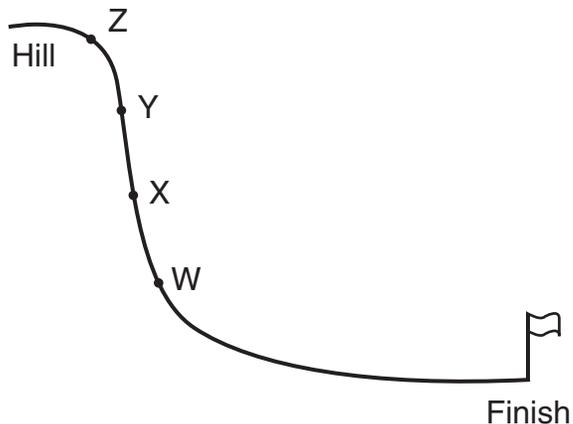
10 The picture below shows a horseshoe crab.



Today's horseshoe crabs are related to trilobites. Trilobites lived more than 251 million years ago and are extinct. Which organism is **most likely** a trilobite?



11 The diagram below shows a hill with several positions labeled.

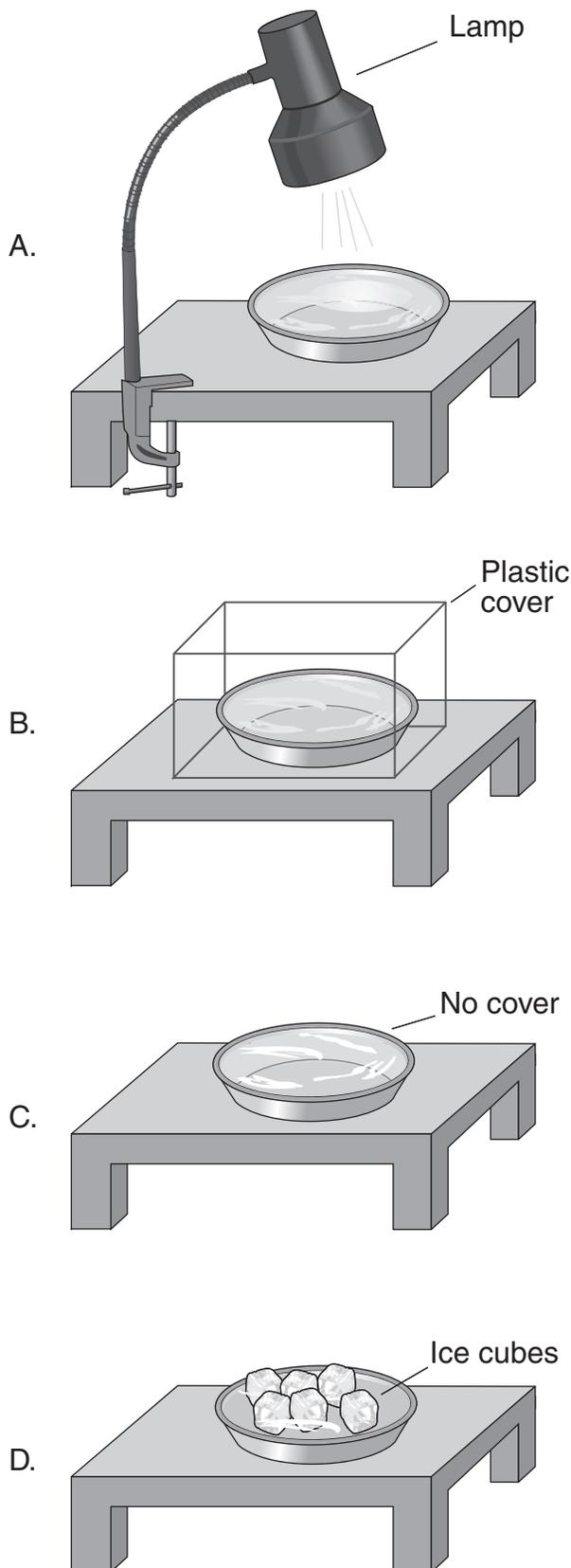


A ball that is started from which position will finish with the greatest speed?

- A. position W
- B. position X
- C. position Y
- D. position Z

PLEASE GO ON →

- 12 A dish of water is placed on a table. In which diagram would the water evaporate the fastest?



- 13 Some flowers depend on animals to carry their pollen to other flowers. Some of these flowers use the smell of rotting meat to attract the animals. Which type of animal is **most likely** attracted by the smell of rotting meat?

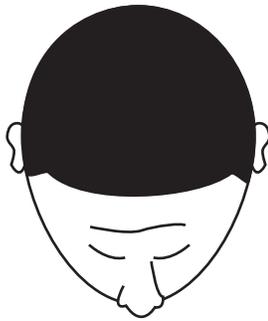
- A. bat
- B. fly
- C. frog
- D. moose

- 14 How could a student **best** show that air takes up space?

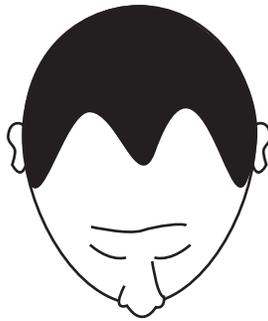
- A. by moving her hand through the air
- B. by collecting air in a glass bottle
- C. by pointing to big puffy clouds
- D. by blowing up a balloon

PLEASE GO ON ➔

- 15 The pictures below show two people with different hairlines.



Straight hairline



Widow's peak hairline

Mr. Robinson has a straight hairline.
Mrs. Robinson has a widow's peak hairline.
Their son has a straight hairline. Which sentence **best** explains why their son has a straight hairline?

- A. He brushes his hair the same way his father brushes his hair.
- B. He cuts his hair the same way his mother cuts her hair.
- C. He inherited the hairline from his parents.
- D. His hairline straightened as he grew older.

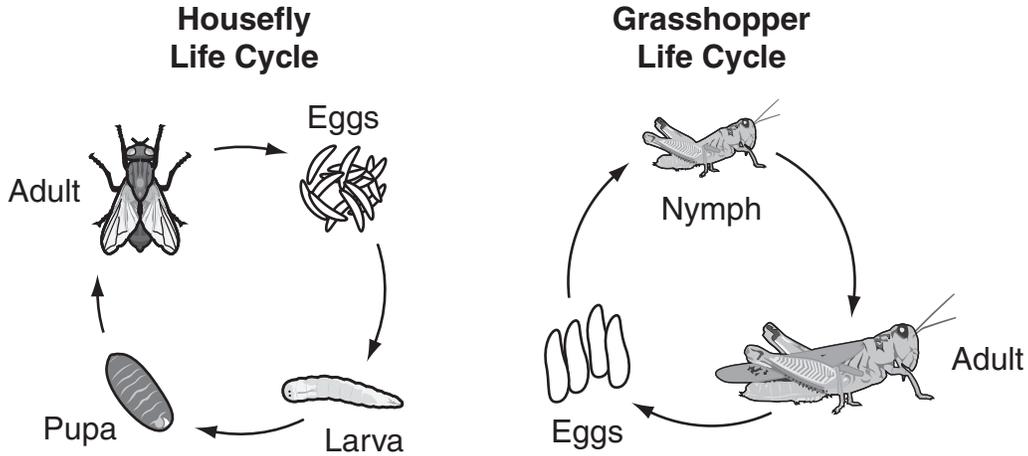
- 16 Pupfish have been living in a saltwater lake for 10,000 years. Over time, the lake has been slowly getting smaller. Which of the following is **most likely** to happen as a result of the lake shrinking?

- A. There will be more pupfish because there will be more food for them.
- B. There will be fewer pupfish because there will not be enough space.
- C. The lake will become saltier because more pupfish will grow.
- D. The lake will become less salty because fewer pupfish will grow.

PLEASE GO ON →

Write your answers to constructed-response questions 17 and 18 in the boxes provided on pages 2 and 3 of your practice test answer booklet. Be sure to answer and label all parts of the questions.

- 17 Two different insect life cycles are shown below.



- a. Describe **two** ways the housefly's life cycle is like the grasshopper's life cycle.
- b. Describe **two** ways the housefly's life cycle is different from the grasshopper's life cycle.
- Be sure to label parts a and b in your answer booklet.**
- 18 a. Explain why Earth has day and night.
- b. Explain how the cycle of day and night affects temperature on Earth.
- Be sure to label parts a and b in your answer booklet.**

