

SAMPLE 5th Grade STAARSmart Assessment (from Reporting Category Booklet)



FORCE, MOTION, AND ENERGY

Grade 5

Name _____

DIRECTIONS

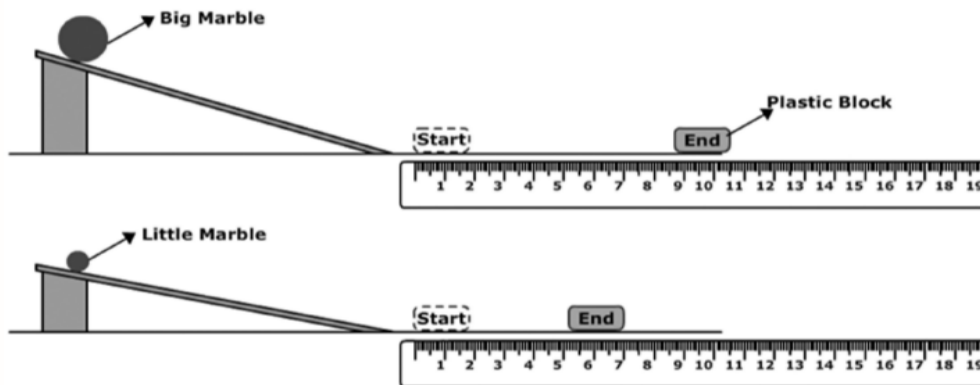
Read each question carefully. For a multiple-choice question, determine the best answer to the question from the four answer choices provided. Then fill in the answer on your answer document.

1. The picture shows a glass containing oil, water, and a pencil.



The pencil appears to be different in the oil and water. The differences in the pencil are mainly because the oil and water –

- Ⓐ dissolve the pencil at different rates
 - Ⓑ refract light differently
 - Ⓒ break the pencil at different places
 - Ⓓ splits white light into different colors
2. Students tested a big marble and a small one to see which one produced the greatest force. They rolled the marbles down ramps at the same time and measured the distance the marbles pushed a plastic block. They repeated the experiment 10 times. The diagram shows their investigation.



What is wrong with the students' experiment?

- Ⓕ The results would be impossible to graph.
- Ⓖ The bigger marble produced a greater force than the little one.
- Ⓗ Two different variables were tested at the same time.
- Ⓙ The setup for the experiment would prevent making measurements.

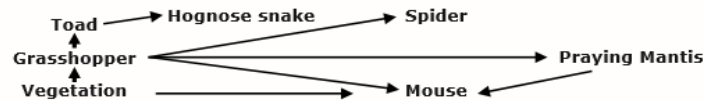
Sample 8th Grade STAARSmart Assessment (from Unit Tests Booklet)

GRADE 8 - ENERGY FLOW IN ECOSYSTEMS

TEKS 7.5(B)

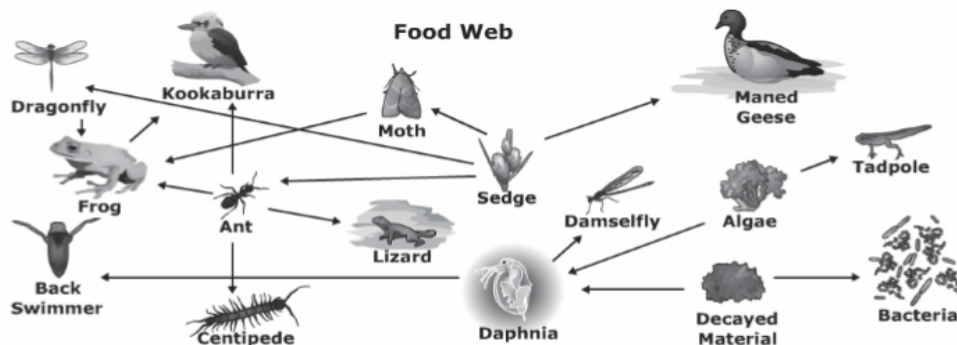
Name: _____

1. The diagram shows a simple Texas food web:



Which of these best explains how and why removing the hognose snakes from this web would affect the praying mantis?

- (A) The number of praying mantises would decrease because there would be less energy available for them.
 - (B) The number of praying mantises would decrease because the number of mice would increase so there would be less food for the mantises.
 - (C) The number of praying mantises would increase because their food supply would increase since there would be more grasshoppers.
 - (D) The number of praying mantises would increase because they would need less energy to catch their food.
2. Which of the following statements is true according to the food web shown here?



- (F) Bacteria are autotrophs.
 - (G) Kookaburras are secondary and tertiary consumers.
 - (H) Lizards are primary consumers and herbivores.
 - (J) Sedges have multiple sources of food.
3. One particular marine food chain consists of great white sharks, phytoplankton, small herrings, and large tuna. In what order does energy pass through this food chain?
- (A) Great white shark to phytoplankton to herring to tuna
 - (B) Great white shark to tuna to herring to phytoplankton
 - (C) Phytoplankton to herring to tuna to great white shark
 - (D) Phytoplankton to tuna to herring to great white shark