☐ E4 COs 6/11/2014

Ecosystems Assessment



Marking Instructions

- Use a No. 2 pencil or a blue or black ink pen only.
- Do not use pens with ink that soaks through the paper.
- Make solid marks that fill the response completely.

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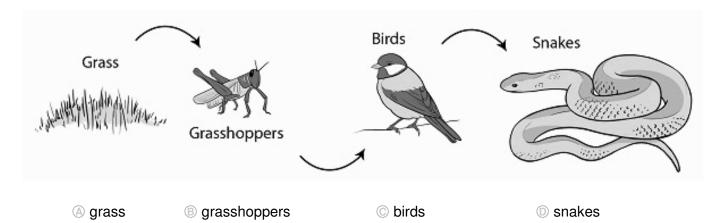
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For each question below, fill in the bubble for the **BEST** answer.

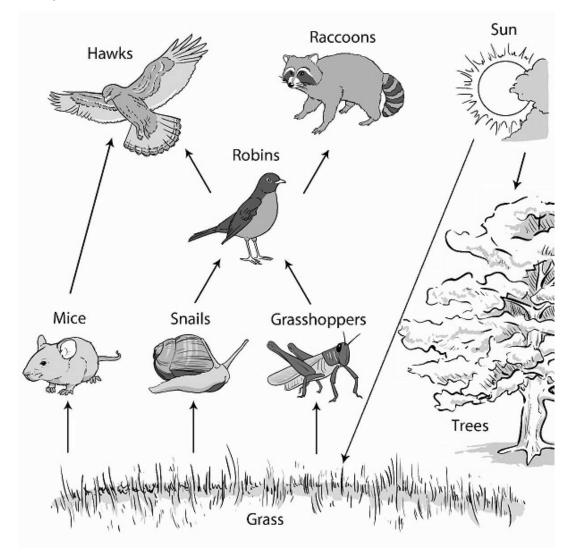
1. The diagram below shows a food chain. Which of the following is a producer?



2. Which of the following events involves a consumer and a producer in a food chain?

- (A) a deer eats a leaf
- a snake eats a rat
- @ a cat eats a mouse
- a hawk eats a mouse

The diagram below shows part of a food web for a meadow ecosystem. Use it to answer questions 3 - 7.



3. What does the arrow from the grasshopper to the robin in the food web diagram mean?

- A that robins get energy from grasshoppers
- ® that grasshoppers get energy from robins
- that grasshoppers and robins live next to one another
- ① that robins are more important than grasshoppers in the ecosystem

4. Which of the following lists all of the consumers in this food web diagram?

- A grass and trees
- B hawks, robins, and raccoons
- o mice, snails, and grasshoppers
- nice, snails, grasshoppers, hawks, robins, and raccoons

5. Which of the following is <u>NOT</u> a food chain found in this food web diagram?								
grass-mice-hawks	(A) grass-mice-hawks							
® grass-mice-raccoo	® grass-mice-raccoons							
© snails-robins-racco	oons							
grass-grasshopper	rs-robins-hawks							
6. If the grass in the meadow stopped growing, what would probably happen in the meadow ecosystem? Please answer questions <i>a</i> through <i>e</i> .								
a. There would be	1 fewer	② the same number of	3 more	snails.				
b. There would be	1) fewer	②the same number of	3 more	robins.				
c. There would be	1 fewer	② the same number of	3 more	hawks.				
d. There would be	1) fewer	②the same number of	3 more	raccoons.				
e. There would be	1 fewer		3 more	grasshoppers.				
7. If a disease caused most of the robins to die, what would probably happen in the meadow ecosystem? Please answer questions <i>a</i> through <i>c</i> .								
a. There would be	1 fewer	② the same number of	3 more	snails.				
b. There would be	1) fewer	②the same number of	3 more	raccoons.				
c. There would be	1) fewer	② the same number of	3 more	grasshoppers.				

Use the diagram on the previous page to answer questions 5 - 7.

Question 1 from MCAS 2006 Science and Technology/Engineering Assessment- Grade 5. Question 2 from MCAS 2008 Science and Technology/Engineering Assessment- Grade 5. Massachusetts Department of Elementary and Secondary Education, Boston. PLEASE DO NOT WRITE IN THIS AREA [SERIAL]