

Initials

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### Diversity Pretest (Elementary)

Science is easier to understand if you can make connections between what you know now and the new ideas you are studying. This is a test that will help us know what you know now.

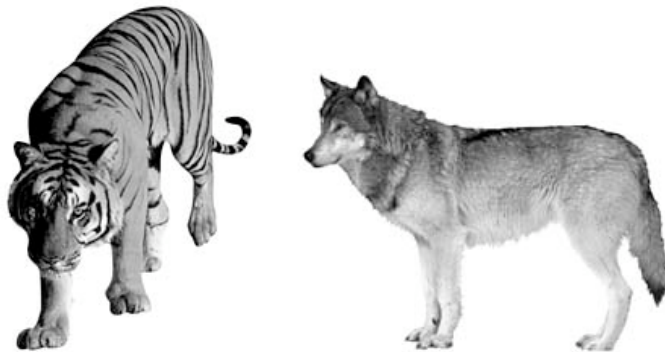
Please answer these questions as carefully and completely as you can. If you aren't sure of the answer, please write any thoughts that you have. If you can help us to understand how you think about these questions, then we can do a better job of explaining science in ways that make sense to you.

Please put your initials (not your full name) in the boxes:

First	Middle	Last

Date \_\_\_\_\_

Class \_\_\_\_\_ Teacher \_\_\_\_\_



1. Above are pictures of a tiger and a wolf. In the boxes below, list five ways that they are alike, and five ways that they are different.

Alike	3.
1.	4.
2.	5.

Different	3.
1.	4.
2.	5.

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2a. Below are pictures of a Michigan forest and a Michigan corn field. In the boxes below each picture, list as many living things as you can that might be living in each of these places.

**Forest**



**Corn Field**



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2b. Explain why it might be important to preserve our forests?

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3a. How many different types of animals and plants do you think live in:

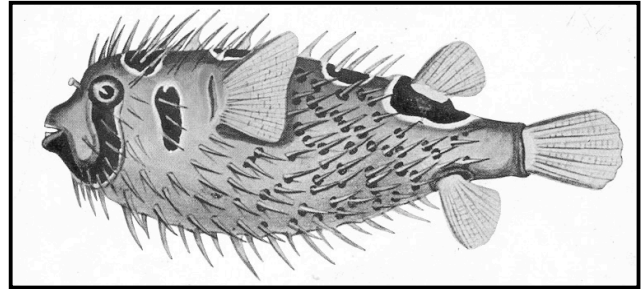
	Animals	Plants
a. Your schoolyard		
b. Michigan		
c. The world		

3b. Other than animals and plants, what other types of things do you think live in these places? Name as many as you can.

Other Living Things:
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4. To the right is a picture of a porcupine fish. The porcupine fish is 6 inches long, and lives in coral reefs. Other types of fish also live in the same place, some of which are predators of the porcupine fish, and some are its prey. In the box below describe some features of the porcupine fish that help it survive.



Features	How the feature helps the fish survive

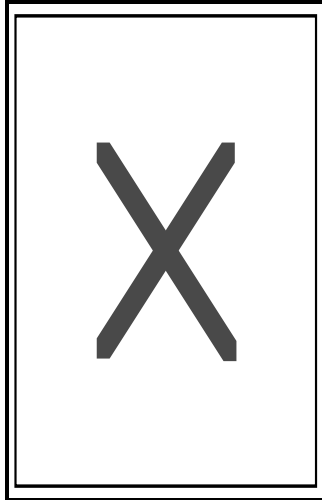


5. To the left is a picture of a rotting pear. In the box below, list as many things that you can think of that might be alive in the rotting pear.

Things living in the rotting pear:

What causes the pear to rot?

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6a. Above is a picture of two sisters. In the boxes below, describe two ways how sisters might look alike and how they might look different.

How they look <b>alike</b> :	How they look <b>different</b> :
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6b. Why do you think that two sisters look more like each other than do two unrelated children?

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6c. Why don't two sisters look exactly the same?

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7a. To the left is a picture of a desert. Even though it is very hot and dry, many animals and plants live in the desert. In the boxes below, describe features of animals and plants they may need to survive in the desert.

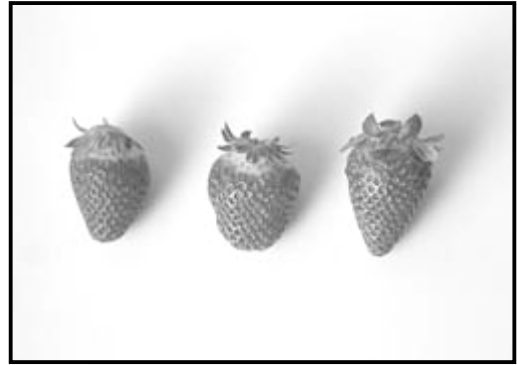
Features of animals	Features of plants
1.	1.
2.	2.
3.	3.

7b. In what ways are animals and plants that live in the desert similar to those that live in Michigan?

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8a. To the right is a picture of some strawberries. They are all slightly different sizes and slightly different shapes. Why do you think these strawberries all grew to look a little different?

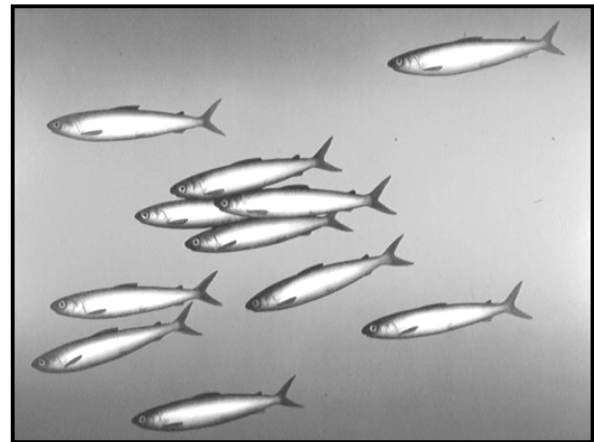


8b. Do you think wild strawberries look more or less alike than do strawberries found in the supermarket?

8c. Why do think this is so?

9. The picture to the right shows a group of fish. Which statement below best describes the appearance of a group of fish such as this?

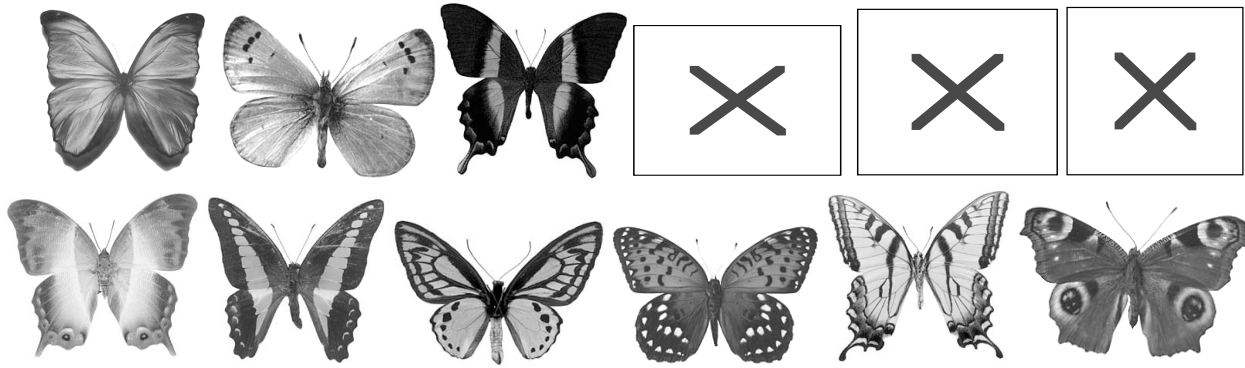
- a) The fish are all identical to each other.
- b) The fish are all identical on the inside, but have many differences in appearance.
- c) The fish are all identical in appearance, but are all different on the inside.
- d) The fish share many characteristics, but also vary in many features.
- e) The fish are all completely unique and share no features with other fish.



Your answer:

Explain why you chose your answer:

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Above are 12 different butterflies.

10a. What features of the butterflies could you use to describe them?

1.
2.
3.

10b. Which two butterflies are most alike? \_\_\_\_\_

Why did you choose these two?

10c. Which two butterflies are most different? \_\_\_\_\_

Why did you choose these two?

10d. Do you think these butterflies all live in the same place, or in different places?

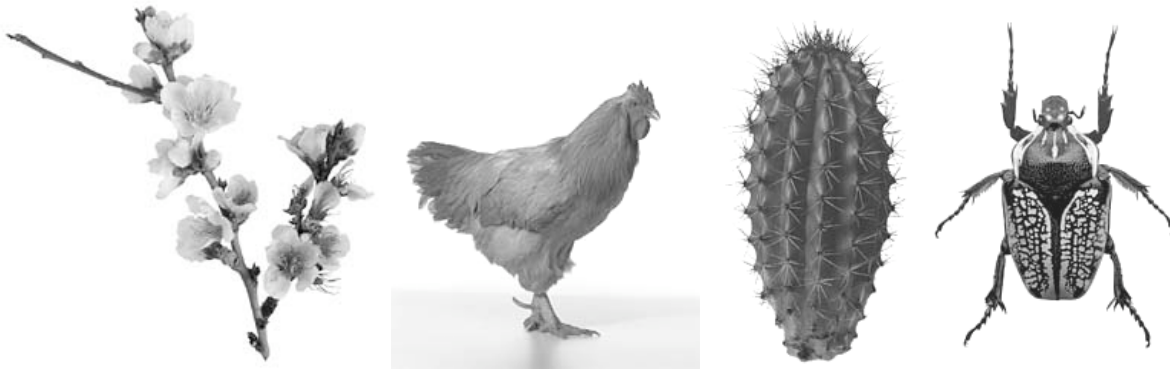
\_\_\_\_\_

Please explain why you chose your answer?

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11. Are above are pictures of some animals and some plants. In the boxes below describe the ways in which animals and plants are alike, and the ways in which they are different.

Ways in which animals and plants are alike:

- 1.
- 2.
- 3.

Ways in which animals and plants are different:

- 1.
- 2.
- 3.

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12. In a Michigan forest, there lives a population of 100 squirrels. How do you think the following events would affect the size of the population of squirrels?

a) A road is built through the forest.

Population would:  
(circle one)

Increase	Stay the Same	Decrease
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Why?

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b) All the predators of squirrels are killed.

Population would:  
(circle one)

Increase	Stay the Same	Decrease
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Why?

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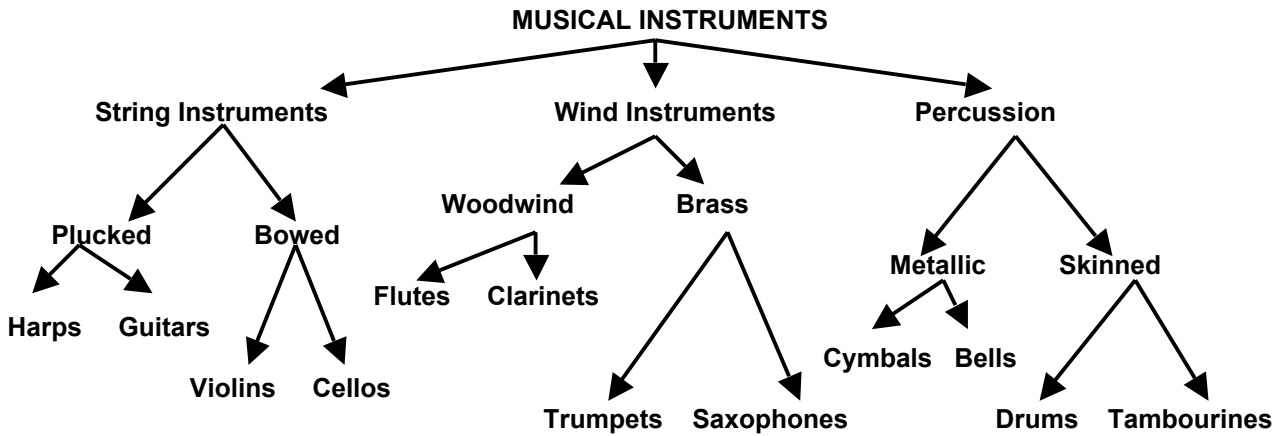
c) More food is available for the squirrels.

Population would:  
(circle one)

Increase	Stay the Same	Decrease
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Why?

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13. The above diagram shows *musical instruments* being broken down and categorized into smaller groups, and then into smaller groups again and again. In the same way, break down *living things* into as many different groups as you can, then continue to break those groups down into smaller and smaller groups, as far as you can go.

### All Living Things