

Fourth Grade  
Science Chapter 4  
Surviving In Ecosystems  
Study Guide

1. Some animals hibernate to avoid the cold of winter.
2. When one living thing looks like another living thing it is called mimicry.
3. A stimuli is something in an environment that causes a living thing to react.
4. Traits that help an organism survive in its environment are called adaptations.
5. An accommodation is an organism's response to change.
6. A species becomes extinct when it dies out.
7. The response of plants to light, water, and gravity are tropisms.
8. Animals that blend in with their environment have an adaptation called camouflage.
9. Organisms that are endangered when there are very few of their species alive.
10. When trees and shrubs are cut down by deforestation, ecosystems are destroyed.
11. An example of mimicry is when an insect's body is shaped like a thorn.
12. Plants respond to stimuli by changing their pattern of growth.
13. After a flood, a mouse starts to eat food it normally would not eat. This is an example of accommodation.
14. Animals can become endangered when people have destroyed most of their food supply.
15. A camel has nostrils that can close to keep out sand, and humps to store fat for energy when food is scarce. They also have wide hooves that help them to walk on the sand. All of these are examples of adaptations that a camel has in order to survive in the desert.

Be able to answer the following questions in complete sentences.

1. What changes might occur in a forest ecosystem after a large forest fire?
2. Explain how camouflage can help an animal survive in its environment. Give one example of how an animal uses camouflage.
3. How do plants adapt to cold winters?
4. How is a brightly colored flower on a plant an example of an adaptation?
5. An ecosystem is severely flooded. What can people do to help save this ecosystem?

Be able to complete a data chart.

Example: Fill in the chart below with the responses most plants have to the following stimuli

<b>Stimuli</b>	—..... >	<b>Responses</b>
light	—..... >	Turns and grows towards it
gravity	—..... >	Roots grow down and stems grow up
water	—..... >	Roots grow toward it