



# Food Chains

## True or False

1. **TRUE** Chlorophyll is what gives plants their green color.
2. **FALSE** All carnivores are predators.
3. **FALSE** Herbivores only eat meat.
4. **TRUE** Scavengers feed on dead animals.
5. **TRUE** Plants use energy during photosynthesis.

## Short Answers

1. A. What is a producer? Give an example.  
**Producers use the sun's energy to make their own food.**  
**Examples: plants and algae**  
B. What is a consumer? Give an example.  
**Consumers eat the producers and other consumers. They cannot make their own food.**  
**Examples: zebra, lions, eagles, owls, sharks, etc.**  
C. What is a decomposer? Give an example.  
**Decomposers get their food from rotting materials. They dispose of and breakdown nature's wastes and return the nutrients to the soil.**  
**Examples: bacteria, insects, fungi, etc.**
2. What is photosynthesis?  
**Photosynthesis is the process by which producers use sunlight to make food from water, carbon dioxide, and nutrients from their surroundings.**
3. What does a carnivore eat? Are they primary or secondary consumers?  
**Carnivores are organisms that only eat meat. Carnivores are secondary consumers because their food and energy come from primary consumers.**
4. What is the energy pyramid?  
**The energy pyramid shows the amount of energy passed from one energy level to the other by means of consumption of food. The biomass at the bottom of the pyramid (producers and primary consumers) is greater than the biomass of the animals at the top layers of the pyramid (secondary, tertiary, and quaternary consumers). The pyramid shows that there are fewer animals at the top of the pyramid than at the bottom. As one goes up the pyramid, the amount of energy that gets passed on becomes lesser. Only about 10% of the energy is passed from one energy level to the next.**
5. Are all predators carnivores?  
**Yes, all predators are carnivores.**
6. What are the beetles called that museums use to clean skeletons?  
**Museums use *dermestic* beetles to clean skeletons.**

*Making the best better!*

Find the words that go in the blanks by using the puzzle.

F	O	O	D	C	H	A	I	N	F	O	O	D	W	E	B
I	S	E	E	S	D	R	E	Y	E	S	C	O	L	O	I
N	P	H	O	T	O	S	Y	N	T	H	E	S	I	S	O
D	U	I	P	H	E	R	B	I	V	O	R	E	S	T	M
DS	H	K	K	C	A	R	N	I	V	O	R	E	S	F	A
C	H	L	O	R	O	P	H	Y	L	L	L	O	P	R	S
T	H	O	M	A	S	C	A	N	T	R	I	V	T	E	S
O	M	N	I	V	O	R	E	S	Y	U	P	L	E	A	E
Z	A	Z	A	D	E	C	O	M	P	O	S	E	R	S	Y
R	E	A	D	I	N	G	I	S	F	U	N	E	E	Q	B

1. **CHLOROPHYLL** gives the green color to plants.
2. **HERBIVORES** eat only plants, not animals.
3. The total weight of everything in each level of a food chain is called **BIOMASS**.
4. A **FOOD WEB** connects all the food chains together.
5. The process that gives plants energy is called **PHOTOSYNTHESIS**.
6. Animals that can and usually do eat both meat and plants are called **OMNIVORES**.
7. **CARNIVORES** are a group of animals that eat mainly meat.
8. Domestic beetles are used my museums when they get new skeletons in for their displays because they are great **DECOMPOSERS**.
9. The path that energy takes as it passes from one organism to another in an ecosystem is called the \_\_\_\_\_, and they can be either very small or very large.

*Making the best better!*