



High School Science Virtual Learning

Biology

Food Chains and Food Webs

April 21, 2020



High School General Biology

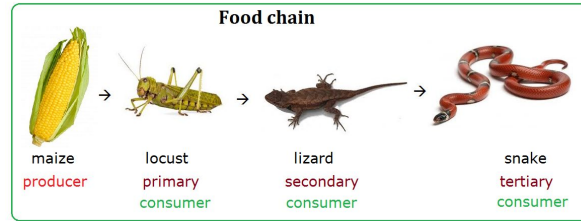
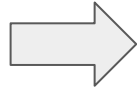
Lesson: Tuesday, April 21 2020

Objective/Learning Target:

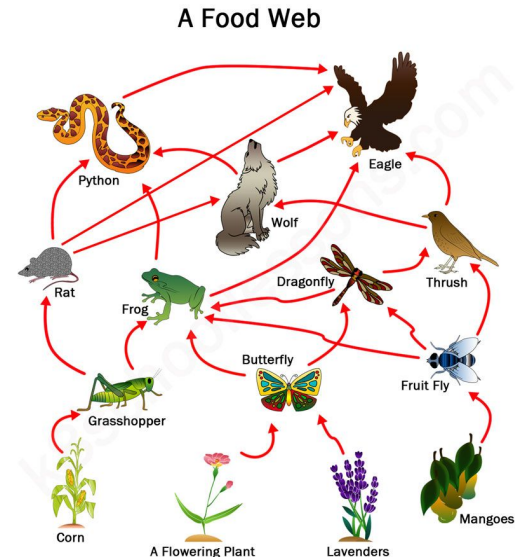
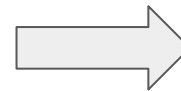
"I can use models to explain how matter and energy found in food molecules are used in organisms."

Let's Get Started:

1. Is the picture a food chain or food web?
What does this picture show?



2. Is the picture a food chain or food web? What does this picture show?





Let's Get Started: **Answer Key**

1. Food chain: a single path of energy in an ecosystem
2. Food Web: all the paths energy follows in an ecosystem

Lesson Activity:

Directions:

1. Watch the video to review ecosystems, food chains, and food webs.
2. Common misconceptions like the direction of the arrow addressed in video.

Links: [Ecosystem Ecology: Links in the Chain - Crash Course Ecology #7](#)

Practice

Complete the following questions using the information you learned during the lesson activity.

Question 1



- a What does the arrow mean in a food chain? _____
- b Name the producer in the food chain _____
- c Name the third trophic level in the food chain. _____
- d Name the tertiary consumer in the food chain. _____
- e What is the ultimate source of energy that drives the food chain? _____

Question 2

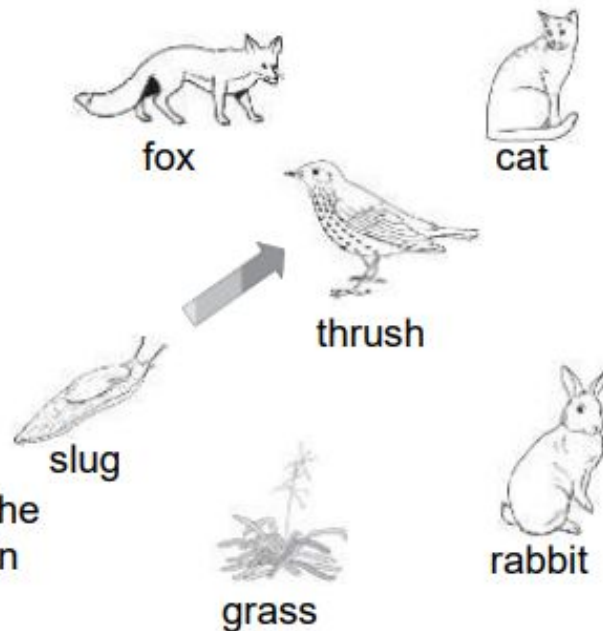
Look at these food chains.

grass → slug → thrush → cat

grass → slug → fox

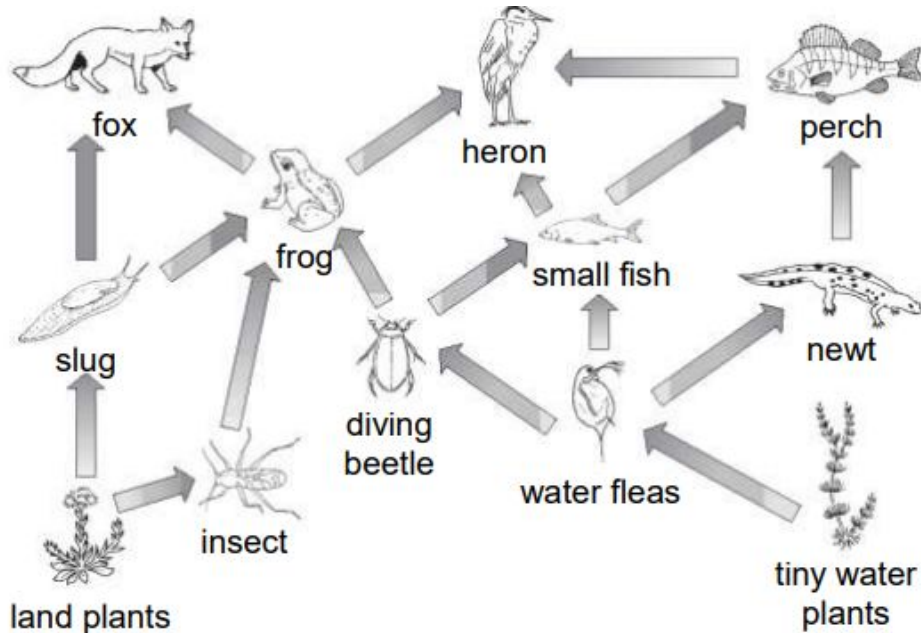
grass → rabbit → fox

grass → rabbit → cat



- a** Use the food chains to help you fill in the arrows on this food web. One has been added for you.

Question 3



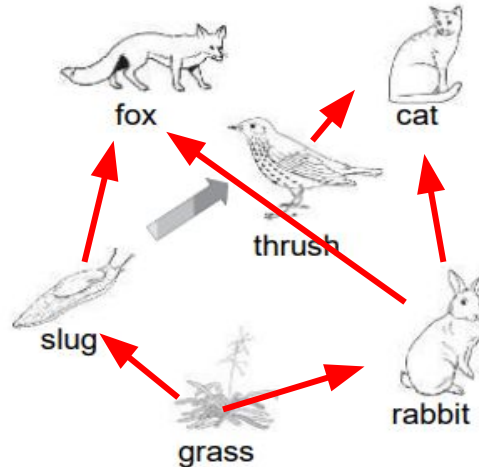
- Name two producers in the food web
- Name three consumers in the food web
- Write a food chain from this food web with 4 trophic levels
- Explain what could happen to the community if all the frogs suddenly died.

Once you have completed the practice questions check with the **answer** key.

1. Analyzing the food chain

- a. Energy
- b. Lettuce
- c. Ladybug
- d. Thrush
- e. sunlight

2. Place the arrows on the food web.



3. Analyzing the food web

- a. Land plants, tiny water plants
- b. Any other organism besides the plants
- c. land plants-insects-frog-heron
- d. The slugs, insects, and diving beetles will increase which will in turn cause the land plants to decrease.

More Practice:

Follow the links below to do more practice.

1. [Food Chain Game Link](#)
2. [Parts of a Food Web Game Link](#)

Additional Practice:

Click on the link below for additional practice. You need to enable flash player. Click on food chains/web to get started.

[Arctic Marine Food Web](#)