



### Study sheet

Name:

Subject: **7.2 Food Chains and webs**

Class: Sixth Grade

Date:

\*Ecology: is the study of organisms in their environment.

-All the different organisms that live together affect one another in some way.

-Food webs and food chains describe how energy in the form of food is transferred between animals and plants.

**-Food chain:** A diagram that shows how energy is transferred from one organism to another, in the form of food.

**-Food web:** A diagram showing many interconnecting food chains.

#### How does energy get into food?



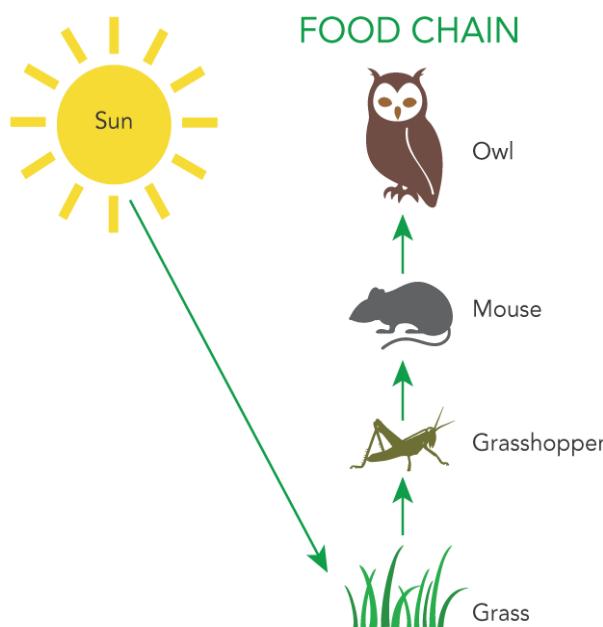
- 1- The energy in food begins in the sun. Energy from the sun reaches the Earth in sunlight.
- 2- Plants (producers) use energy from sunlight to make their own food.

\*Plants stores energy from the sun in its:

- a-roots.
- b-Stems.
- c-Fruits.
- d-Leaves.

3-When an animal (consumer) eats part of the plant, it eats the food the plant made. This is how the animals gets energy.

\*This is called **energy transfer**.

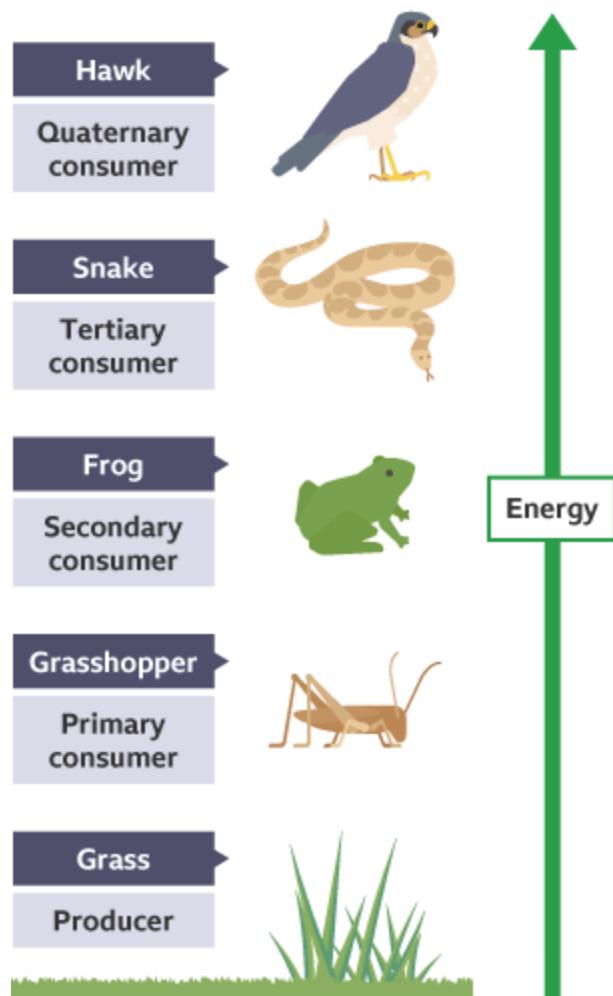


The arrows → in the food chain show how energy is passed from the Sun to the plant and then **is transferred** to the consumers.

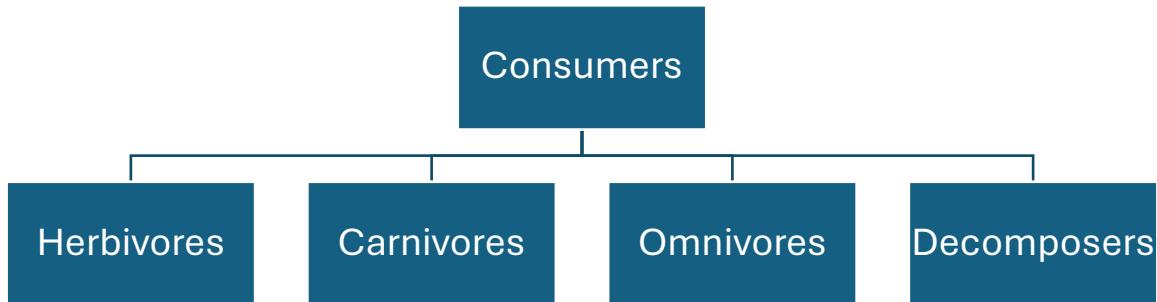
The **first** organism in a food chain is a producer.

\*Producers make their own food (plants).

Then the consumers: Consumer is an organism that cannot make its own food and therefore relies on food made by plants; all animals and fungi are consumers.



**There are four types of consumers:**



- Herbivores:** Consumers that consume only plants.
- Carnivores:** Consumers that consume only meat(animal).
- Omnivores:** Consumers that consume both (meat and plant).
- Decomposers:** Consumers that consume the remains of dead plants and animals.

\*Consumers can be a predator or a prey.

- Predator:** An animal that catches, kills and eats other animals.
- Prey:** An animal that is killed and eaten by another animal.