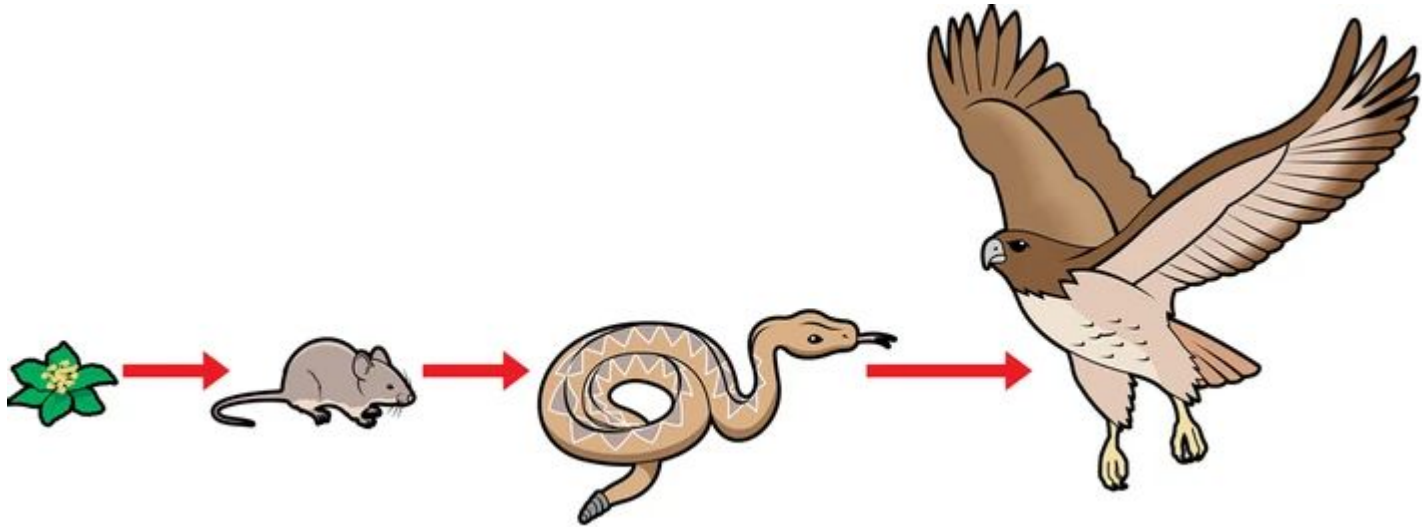
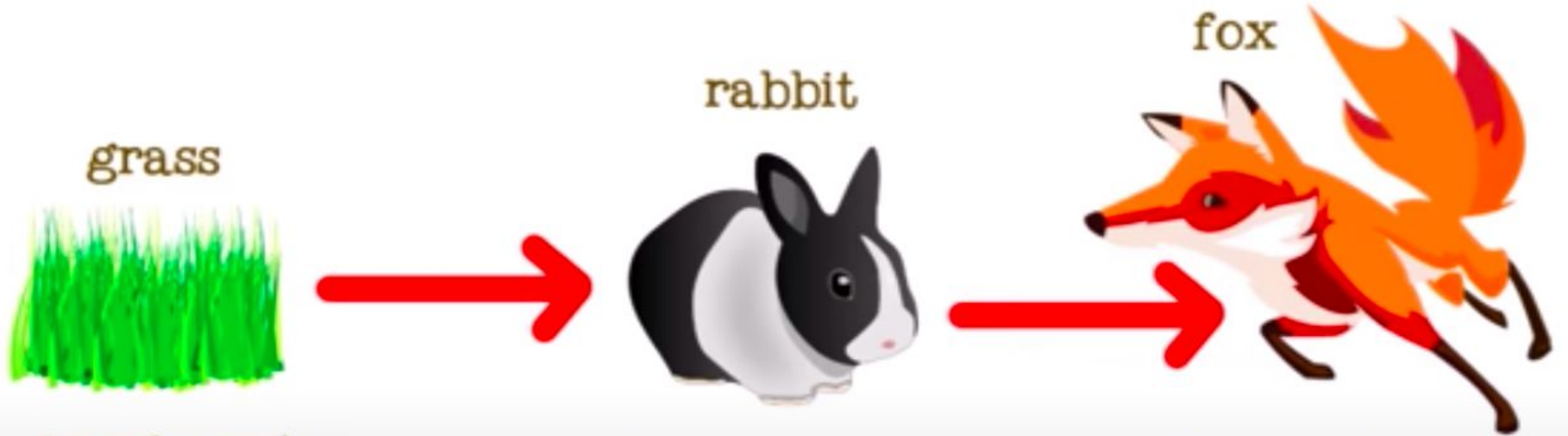


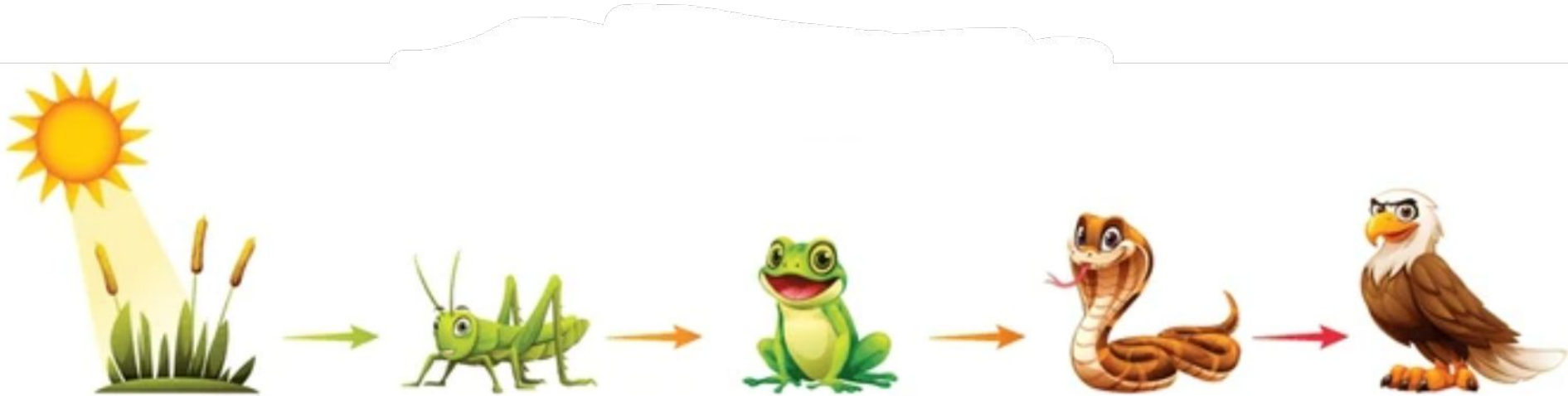
Food Chains



What do the arrows represent?



Where does the energy come from?

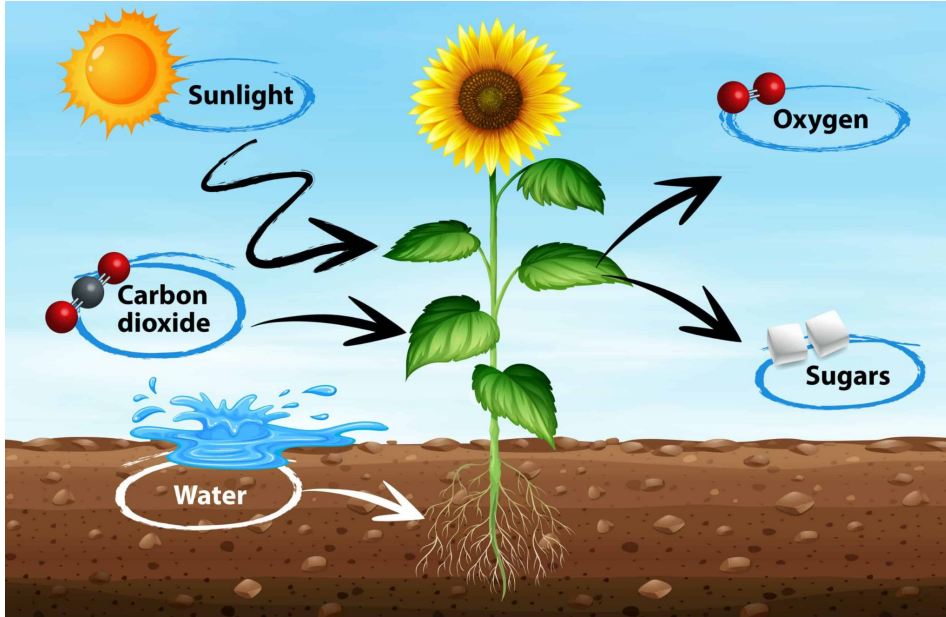


Where does the energy come from?

The Sun!



Photosynthesis: a process by which plants transform **light energy** into **chemical energy**.



Carbon dioxide + Water

Sunlight

Oxygen + Sugar

Some new terms:

Producer: Organisms that make their own food by absorbing sunlight.

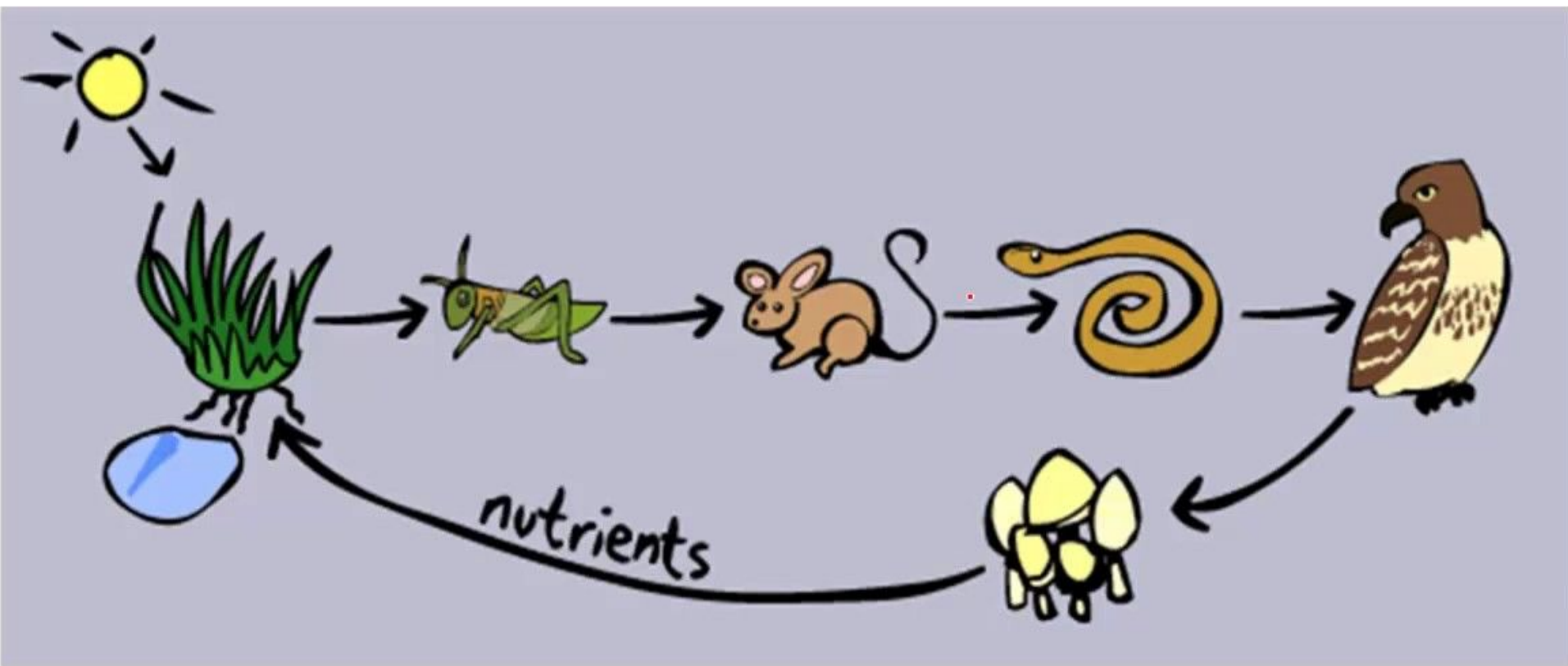
Consumer: Organisms that eat other living things as a source of food.

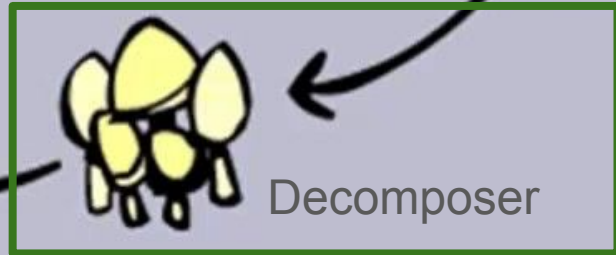
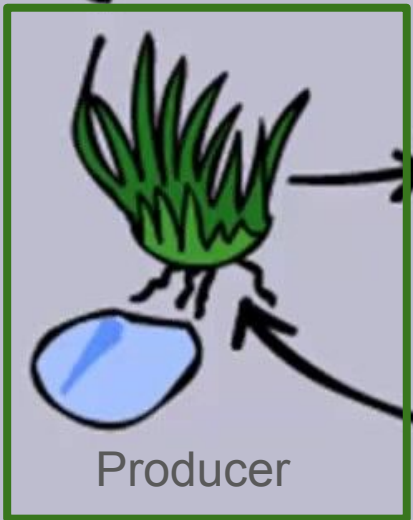
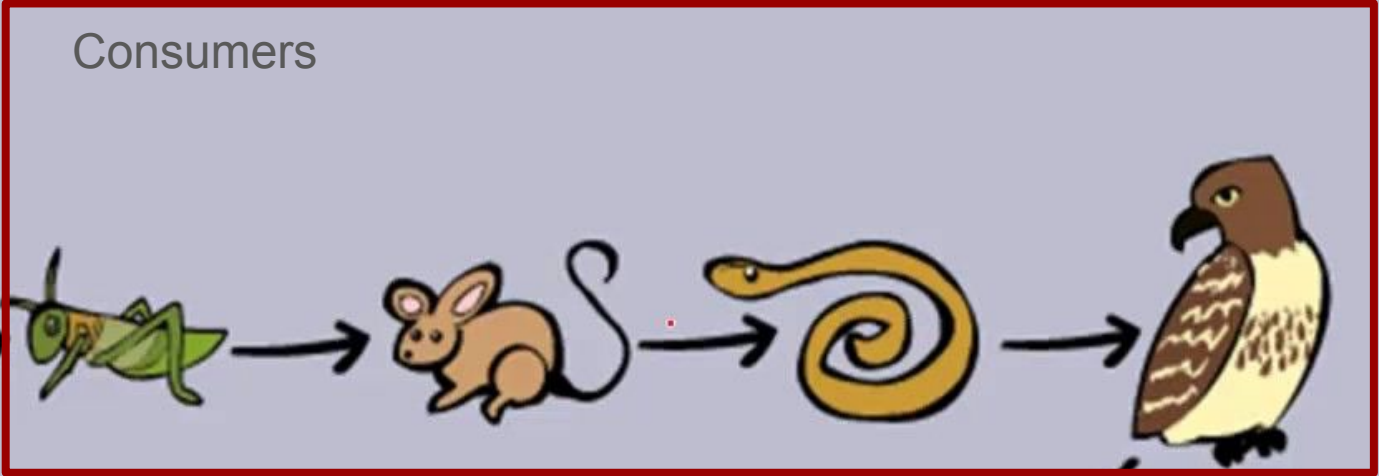
Primary Consumer: Eats producers

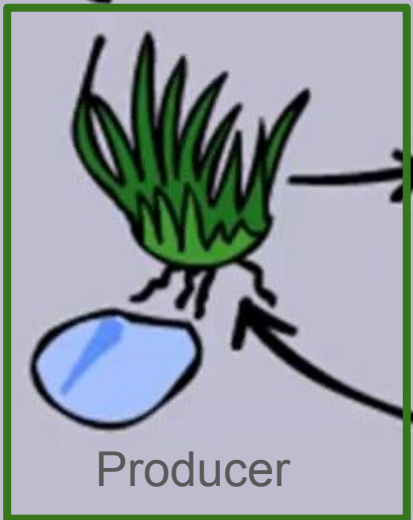
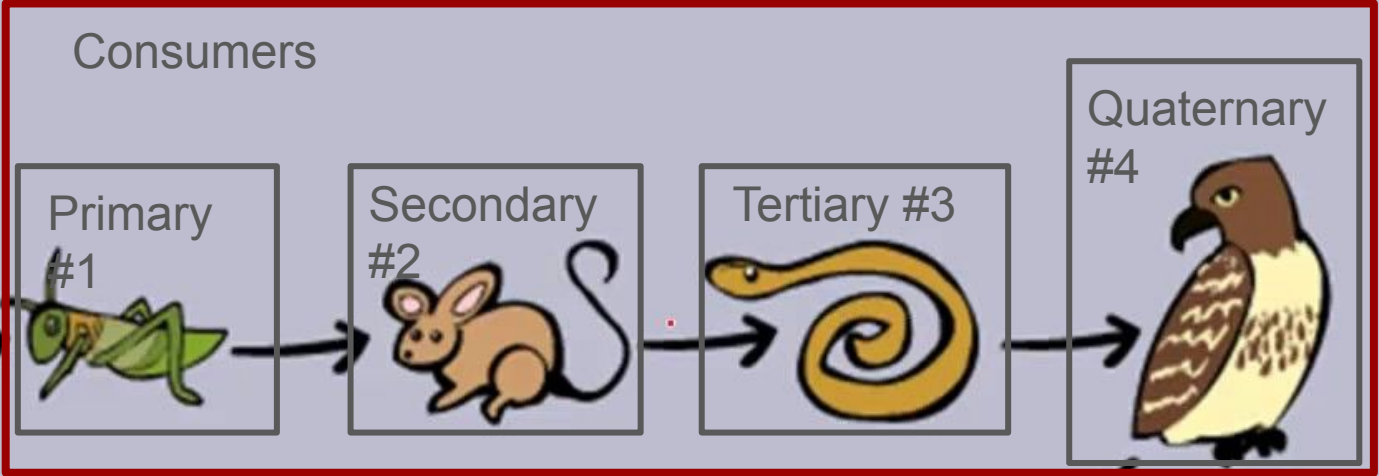
Secondary Consumer: Eats primary consumers

Tertiary Consumer: Eats secondary consumers

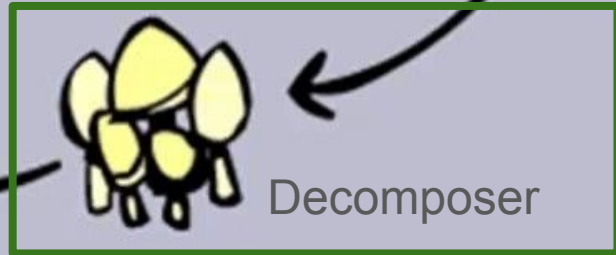
Decomposer: Organisms that get their food by breaking down dead plants and animals.







Producer



Decomposer



More Vocab!

Carnivore: Organism that only eats animals for food.

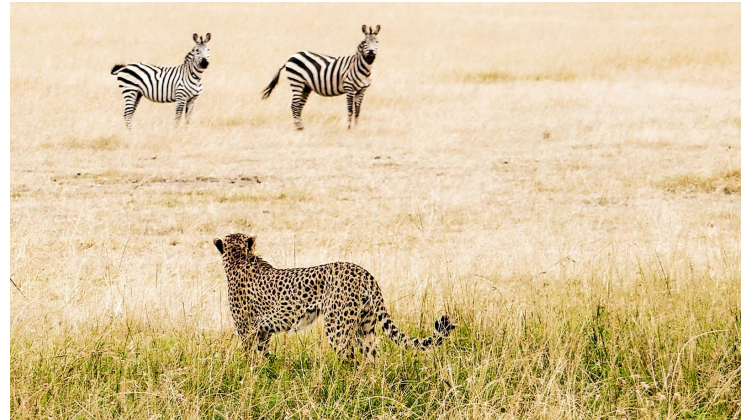
Herbivore: Organism that only eats plants for food.

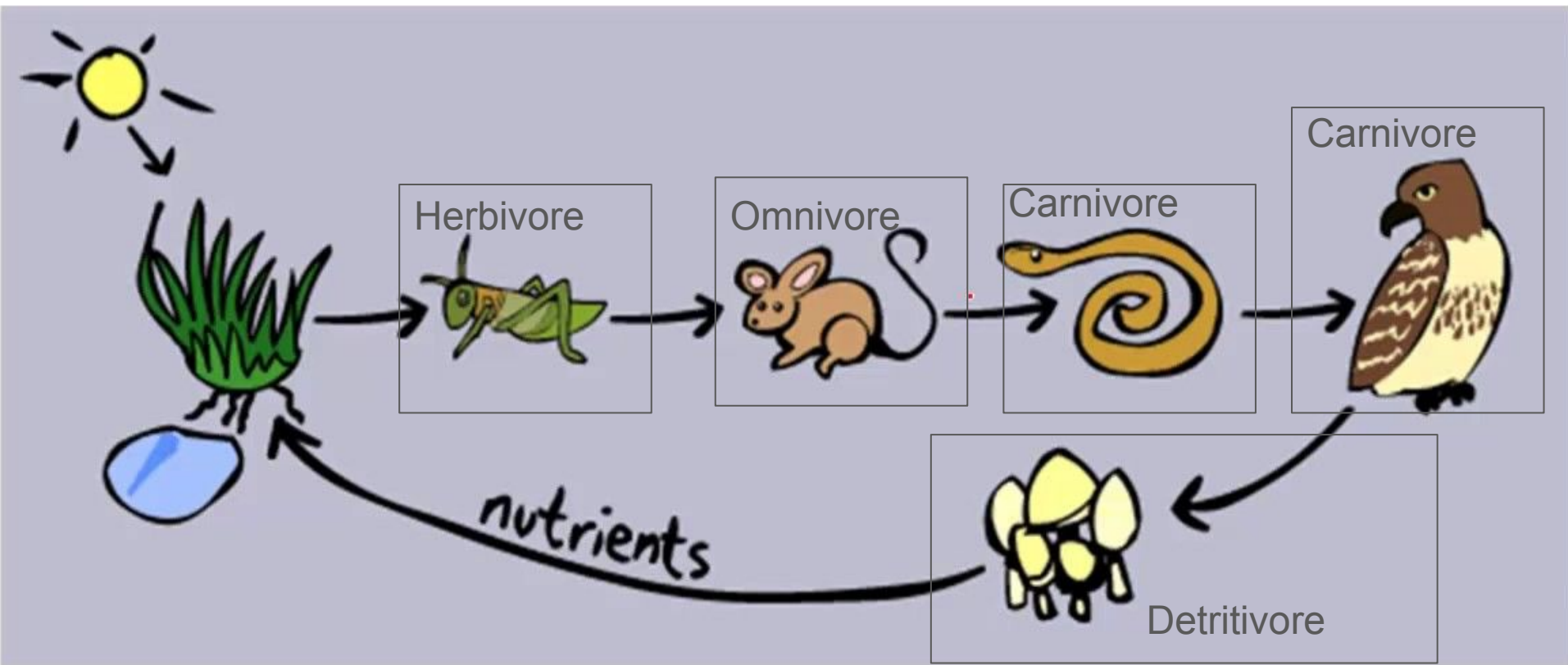
Omnivore: Organism that eats both plants and animals for food.

Detritivore: Organism that only eats dead organisms.

Predator: Animal that hunts other animals.

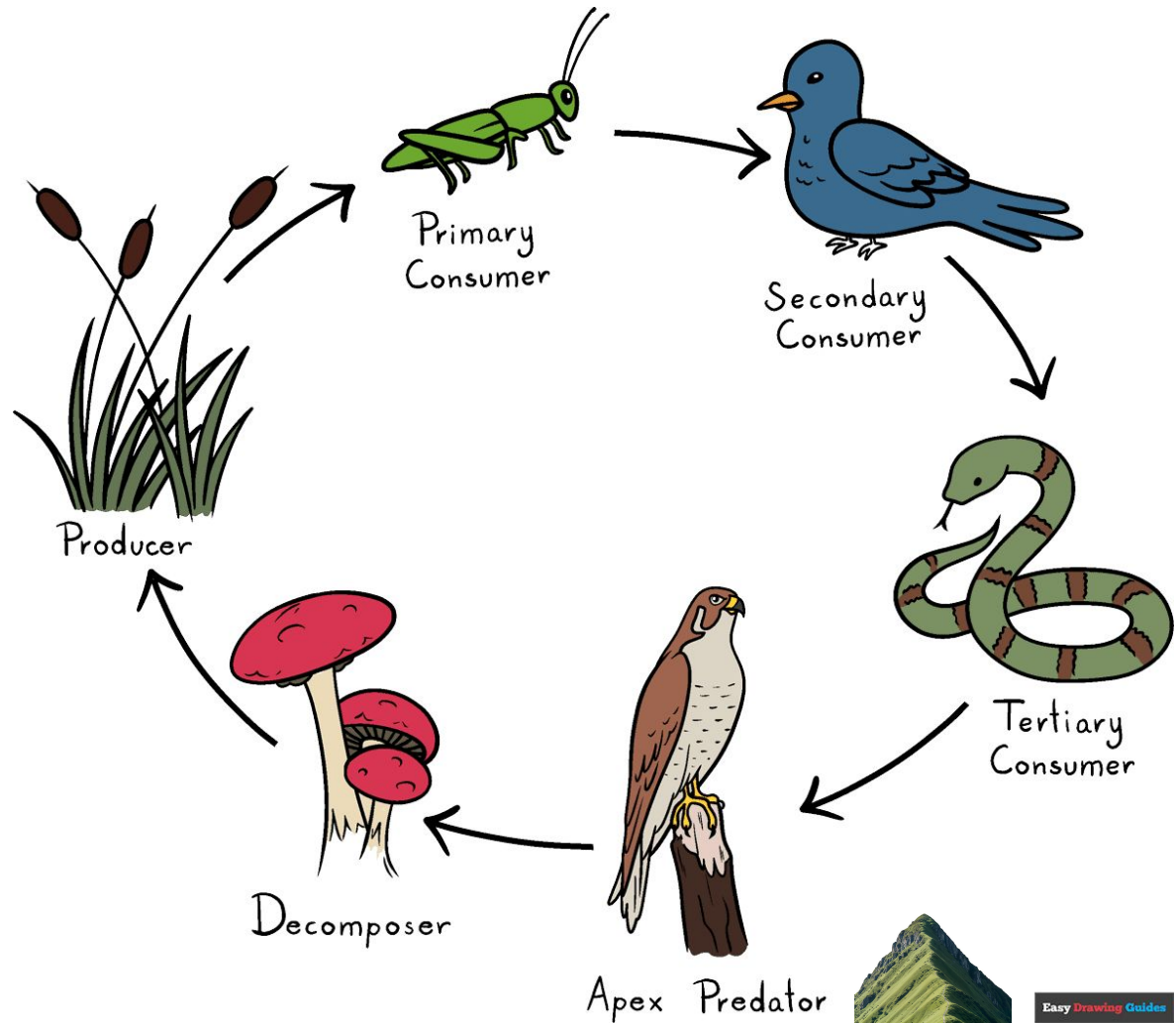
Prey: Animal that is hunted by other animals.



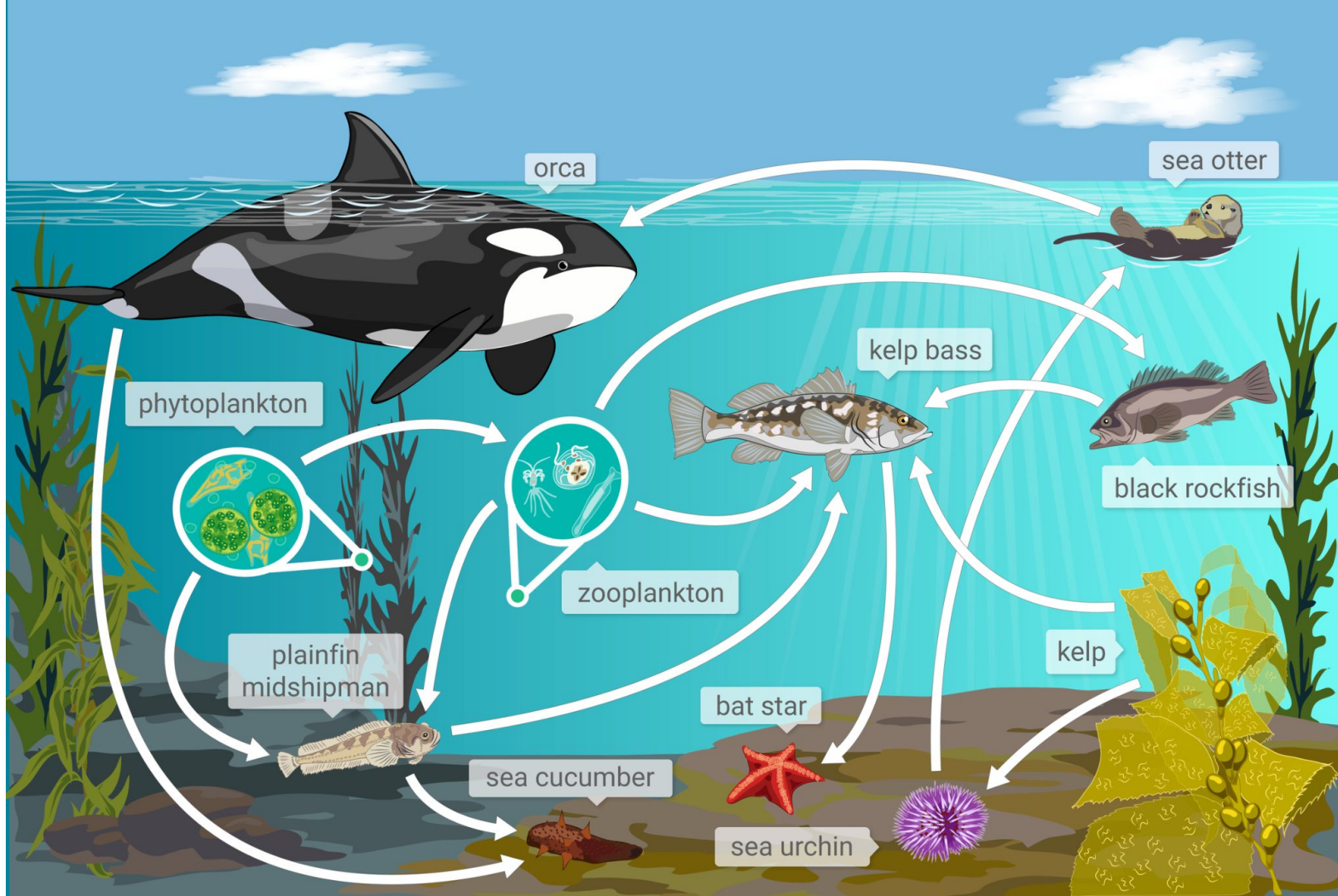


Are food chains
really that
simple????

NO!



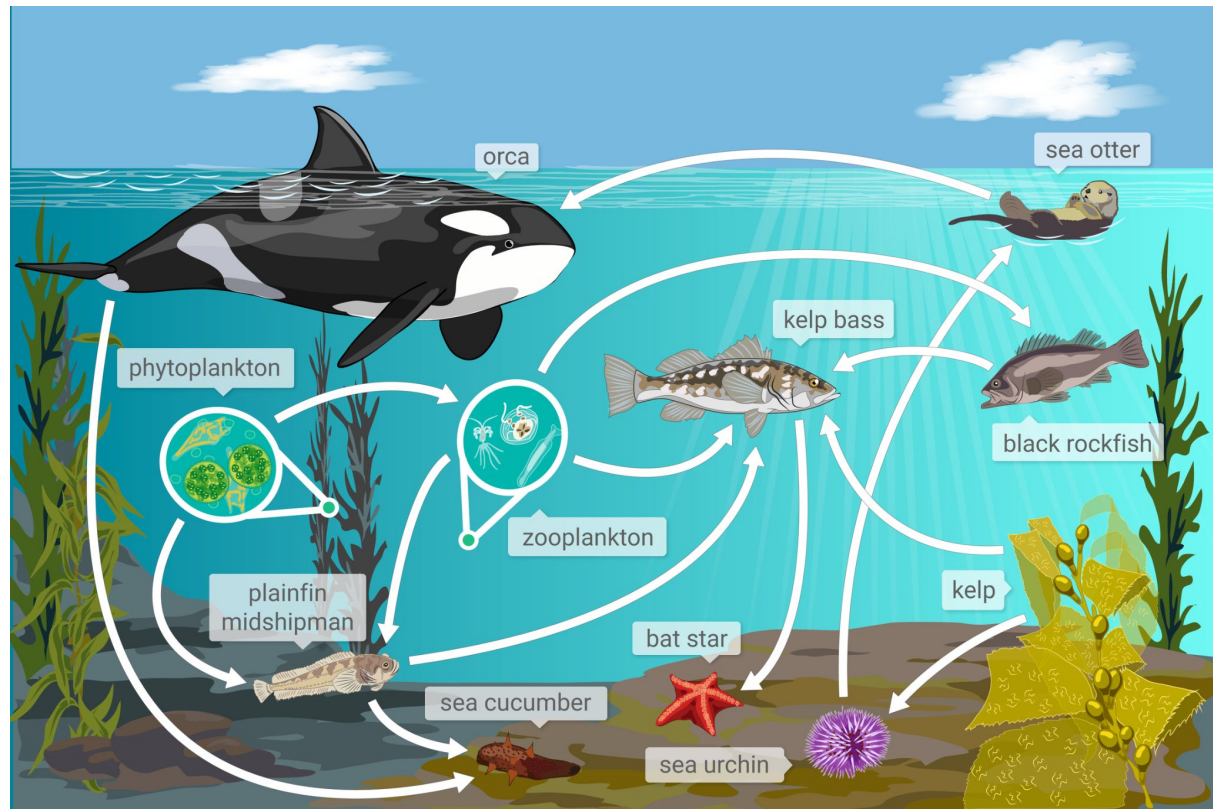
Food Webs















Food Webs:

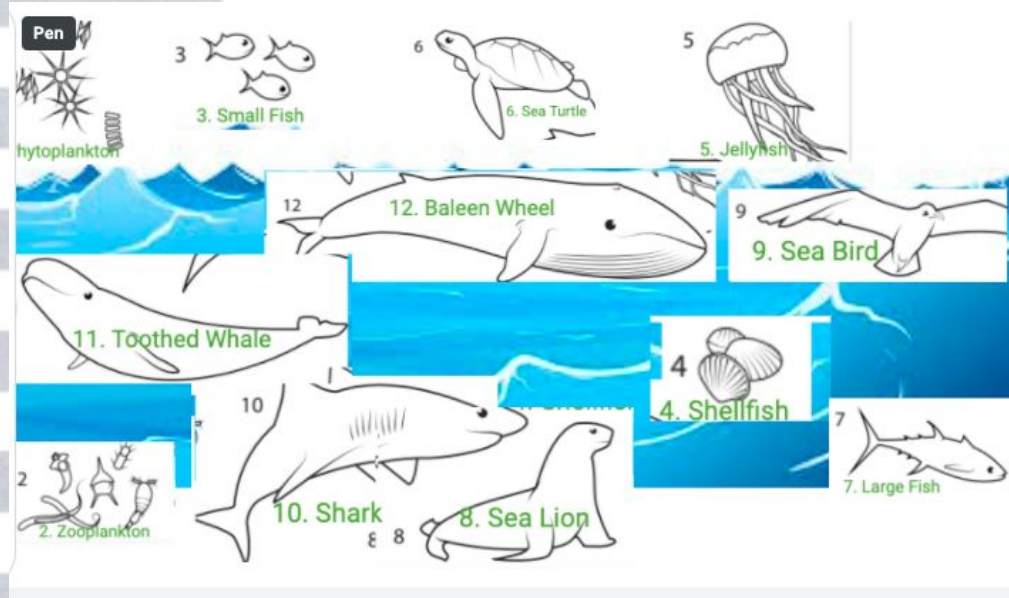
A collection of food chains that interact with each other.

Can you find 2 different food chains in this example?



Group Task: Build a food web using the information sheet and the organisms provided. Use arrows to show how energy flows through the food web.

#	Name	What do I eat?
	1 Phytoplankton	I use energy from sunlight to turn carbon dioxide gas into sugars.
	2 Zooplankton	I eat phytoplankton.
	3 Small fish	I eat zooplankton.
	4 Shellfish	I eat zooplankton.
	5 Jellyfish	I eat small fish and zooplankton.
	6 Sea turtle	I eat jellyfish and small fish.
	7 Large fish	I eat small fish.
	8 Sea Lion	I eat small fish.
	9 Sea Bird	I eat small fish, jellyfish, and shellfish.
	10 Shark	I eat small fish, large fish, and sea lions.
	11 Toothed whale	I eat small fish, large fish, and sea lions.
	12 Baleen whale	I eat zooplankton.



What happens when one of the organisms is removed?

Answer the following questions on your worksheet:

Removed organism: _____

How does removing an organism from a food web impact the other organisms in an ecosystem?