

## Science Gr 5 Ecosystem

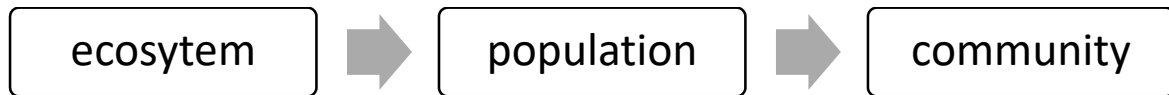
**Biotic:** are living things like plant and animals

**Abiotic:** are non-living things like soil, sunlight, air, and water

**Ecosystem:** are all living (biotic) and non-living (abiotic) things in an environment

**Population:** all members of a single species in an area at a given time

**Community:** is made from many different populations including all the living things in an ecosystem



**food chains:** model the feeding relationships between organisms in an ecosystem and the energy in food chain starts with the sun

**Producers:** are organisms that use the sun's energy to make sugar and oxygen and they are the base of every food chain

**Consumers:** is any animal that eats plants or other animals

**Herbivores:** animals that eat producers (plants) like squirrels, some birds, some insects and grazing animals

**Carnivores:** animals that eat other animals like bobcats and hawks

**Omnivores:** are animals that eat both plants and other animals like raccoons, mice and some crabs

**Decomposers:** are organisms that obtain energy by consuming wastes and dead organisms like fungi, bacteria, termites and many worms' species

**Scavenger:** is a consumer that eats the remains of dead animals that it didn't hunt or kill like vultures, raccoons, jackals, crows and some crabs.

**Food web:** is a network of food chains that has some links in common.

**Predator:** is a living thing that hunts and kills other living things for food.

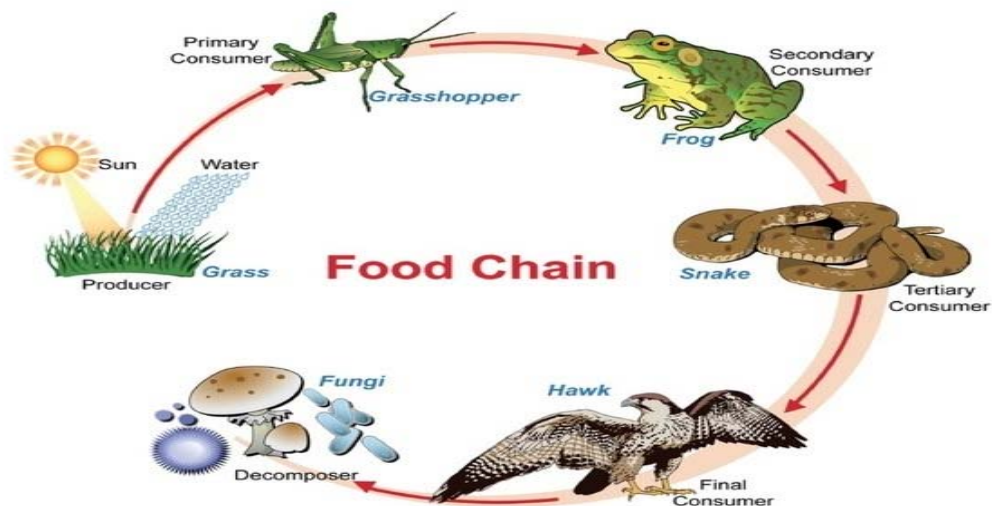
**Prey:** are organisms that are eaten by predators.

**Energy pyramid:** is a diagram that shows the amount of energy available at each level of an ecosystem

## Science Gr 5 Ecosystem

	Producers	consumers
Definition	are organisms the use the sun's energy to make sugar and oxygen and they are the base of every food chain	is any animal that eats plants or other animals
Example	Plant	Animals

	herbivores	Carnivores	Omnivores	decomposers	scavengers
Definition	animals that eat producers (plants)	animals that eat other animals	are animals that eat both plants and other animals	are organisms that obtain energy by consuming wastes and dead organisms	is a consumer that eats the remains of dead animals that it didn't hunt or kill
Type of food	Only plants	Only animals	Plant and animals	Waste and died organisms	Remains of dead animals
Example	<ul style="list-style-type: none"> <li>• Squirrels</li> <li>• some birds</li> <li>• some insects</li> <li>• grazing animals</li> </ul>	<ul style="list-style-type: none"> <li>• Bobcats</li> <li>• hawks</li> </ul>	<ul style="list-style-type: none"> <li>• raccoons</li> <li>• mice</li> <li>• some crabs</li> </ul>	<ul style="list-style-type: none"> <li>• Fungi</li> <li>• Bacteria</li> <li>• termites</li> <li>• many worms species</li> </ul>	<ul style="list-style-type: none"> <li>• vultures</li> <li>• raccoons</li> <li>• jackals</li> <li>• crows</li> <li>• some crabs.</li> </ul>



## Science Gr 5 Ecosystem

- **In a food chain, -----is passed on from one organism to another**
  - Waste
  - Sunlight
  - Energy
  - Gas
  
- **What is a consumer?**
  - An animal that does not make its own food
  - an animal that eats other animals
  - a living organism that uses sunlight to make its own food
  - an animal that has no known predators
  
- **Producers are ----- because they get energy from the sun, make their own food, and make food for some animals.**
  - not an important part of the food chain
  - animals such as deer and zebras
  - the first part of the food chain
  - break nutrients down into the soil
  
- **What is a food chain?**
  - model the feeding relationships between organisms in an ecosystem
  - An animal that eats other animals
  - A living organism that is able to use sunlight to make its own food
  - An animal that has no known predators
  
- **Producers are ----- because they get energy from the sun, make their own food, and make food for some animals.**
  - not an important part of the food chain
  - animals such as deer and zebras
  - the first part of the food chain
  - break nutrients down into the soil
  
- **What is a producer?**
  - An animal that eats other animals
  - A living organism that uses sunlight to make its own food
  - An animal that only eats plants
  - An animal that has no known predators
  
- **A carnivore is an animal that only eats meat.**
  - True
  - False

## Science Gr 5 Ecosystem

- **food chain is a series of relationships between members of an ecosystem so that -----can be transferred between them.**
  - food
  - sunlight
  - energy
  - water
  
- **An example of a food chain in a pond environment would be: algae: water bug: fish: otter. In this example the \_\_\_\_\_ is at the bottom of the food chain.**
  - algae
  - water bug
  - fish
  - otter
  
- **Which food chain correctly describes the flow of energy in an ecosystem?**
  - Grass - cow - human
  - Caterpillar – leaf - human
  - Cow – grass - human
  - Leaf – bird – caterpillar
  
- **Rabbits eat grass and other plants to survive, but they do not eat animals. What kind of animal are rabbits?**
  - Decomposers
  - Carnivores
  - Producers
  - Herbivores
  
- **How do decomposers help other organisms in an ecosystem?**
  - They break down dead organisms and add nutrients back to the soil that plants use.
  - They use the sunlight to make their own food that other organisms eat for energy.
  - They help disperse seeds for plant growth.
  - Decomposers do not help other organisms in an ecosystem
  
- **In what order do a falcon, grass, and rabbit form a food chain in a meadow?**
  - Falcon----->grass----->rabbit
  - Grass----->falcon----->rabbit
  - Rabbit----->grass----->falcon
  - Grass----->rabbit----->falcon
  
- **A predator is an animal that hunts for food**
  - True
  - False

## Science Gr 5 Ecosystem

- **An animal that eats other animals is known as a-----**
  - herbivore
  - food chain
  - carnivore
  - omnivore
  
- **Which of the following lists only consumers?**
  - Hawks, lizards, chipmunks
  - Acorns, squirrels, rabbits
  - Grass, chipmunks, eagles
  - Mice, squirrels, grass
  
- **What is the difference between a food chain and a food web?**
  - A food chain is larger than a food web
  - A food chain is the combination of all the food webs in an ecosystem
  - A food web is smaller than a food chain
  - A food web is the combination of all the food chains in an ecosystem
  
- **What is the name of an animal that only eats meat?**
  - carnivore
  - human
  - omnivore
  - herbivore
  
- **----- break down dead plants and animals.**
  - decomposers
  - producers
  - consumers
  - prey
  
- **The living and non-living things that interact in an environment is called a -----**  
-----
  - food chain
  - consumer
  - ecosystem
  - food web
  
- **An organism that makes its own food is a-----**
  - Producer
  - Decomposer
  - food web
  - food chain
  - consumer

## Science Gr 5 Ecosystem

- **A -----shows how energy passes from one organism to another in an ecosystem.**
  - Omnivore
  - food web
  - herbivore
  - food chain
  
- **An organism that eats other organisms is called a -----**
  - Producer
  - food chain
  - ecosystem
  - Consumer
  
- **A-----shows how food chains are linked together.**
  - consumer
  - food web
  - producer
  - food chain
  
- **An animal that eats plants is called a-----**
  - herbivore
  - carnivore
  - food web
  - omnivore
  
- **An animal that eats both plants and animals is called a-----**
  - herbivore
  - omnivore
  - carnivore
  - food chain
  
- **Producers use energy from the sun.**
  - True
  - False
  
- **The organisms hunted by predators are called-----**
  - predators
  - consumers
  - producers
  - prey
  
- **All members of a single species in an area at a given time is-----**
  - ecosystem
  - population
  - community
  - food chain

## Science Gr 5 Ecosystem

- **Food chains begin with ----- that make their own food.**
  - decomposers
  - producers
  - consumers
  - energy
- **Nutrients from dead organisms are recycled by \_\_\_\_.**
  - decomposers
  - consumers
  - producers
  - scavengers
- **an example of omnivores is -----**
  - mice
  - squirrels
  - Bobcats
  - hawks
- **vultures, raccoons, jackals, crows are example of -----**
  - producers
  - scavengers
  - decomposers
  - consumers
- **the top of the energy pyramid represents the -----**
  - Producer
  - Consumer
  - carnivores
  - Decomposer
- **all of the following are omnivores except -----**
  - raccoons
  - mice
  - some crabs
  - bacteria
- **The diagram shows -----**
  - food chain
  - energy pyramid
  - ecosystem
  - food web



## Science Gr 5 Ecosystem

- **What is an animal that is eaten by a predator?**
  - Producer
  - Prey
  - Consumer
  - Decomposer
- **-----is a living thing that can make its own food.**
  - Producer
  - Consumer
  - Predator
  - Decomposer
- **All food chains start with-----**
  - the plant
  - the sun
  - the predator
  - the prey
- **Lions, tigers and other big cats are -----**
  - predators.
  - Prey
  - Producers
  - Herbivores
- **Organisms that eat other organisms, they can be herbivores, carnivores, or omnivores are called -----**
  - predator
  - prey
  - consumer
  - producer
- **The bottom of the energy pyramid represents the -----**
  - Producer
  - Consumer
  - carnivores
  - Decomposer
- **Community is -----**
  - all living (biotic) and non-living (abiotic) things in an environment
  - all members of a single species in an area at a given time
  - made from many different populations including all the living things in an ecosystem



## Science Gr 5 Ecosystem

### Fill in the blank with the right word

abiotic	population	ecosystem	biotic	Community
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- ----- are living things like plant and animals
- -----are non-living things like soil, sunlight, air, and water
- all living (biotic) and non-living (abiotic) things in an environment are -----
- All members of a single species in an area at a given time is a -----
- -----is made from many different populations including all the living things in an ecosystem

### Choose the correct answers.

- A. Omnivores                      animals that eat producers (plants)
- B. Carnivores                      organisms that obtain energy by consuming wastes and dead organisms
- C. Herbivores                      animals that eat other animals
- D. Decomposers                      a consumer that eats the remains of dead animals that it didn't hunt or kill
- E. Scavengers                      are animals that eat both plants and other animals

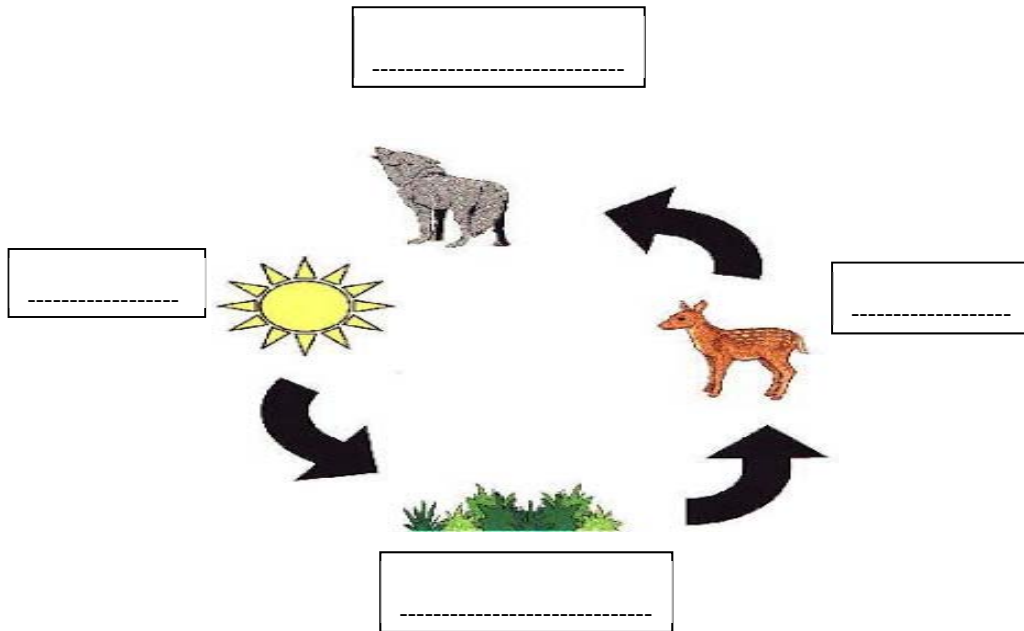
### Classify the following organisms

raccoons- mice- Fungi- Bacteria - Squirrels – vultures- raccoons – jackals- Bobcats – hawks - termites -- crows
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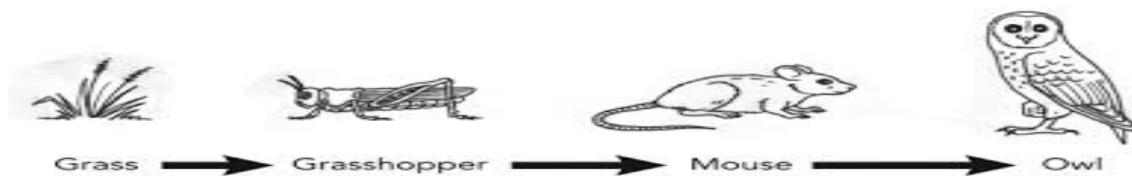
herbivores	Carnivores	Omnivores	decomposers	scavengers

## Science Gr 5 Ecosystem

- Fill the blank with correct information



- Please look at the following diagram and answer the following questions



- The diagram represents -----
- What represents the producer in the diagram? -----
- What represents the herbivores in the diagram? -----
- What represents the carnivores in the diagram? -----