

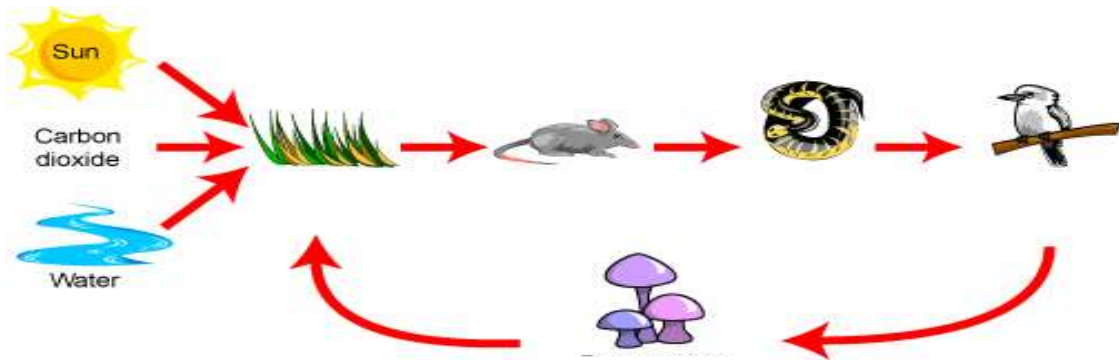
### Community Relationships Exploration

Define each word, and provide an example:

- Producer \_\_\_\_\_
- Consumer \_\_\_\_\_
- Decomposer \_\_\_\_\_
- Herbivore \_\_\_\_\_
- Carnivore \_\_\_\_\_
- Omnivore \_\_\_\_\_
- Primary Consumer \_\_\_\_\_
- Secondary Consumer \_\_\_\_\_
- Tertiary Consumer \_\_\_\_\_
- Top Predator \_\_\_\_\_
- Prey \_\_\_\_\_

In the food chain below, identify the:

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Decomposer       | <input type="checkbox"/> Producer           | <input type="checkbox"/> Tertiary Consumer |
| <input type="checkbox"/> Primary Consumer | <input type="checkbox"/> Secondary Consumer | <input type="checkbox"/> Top Predator      |



Interpret the meaning of the food chain by completing the following statements:

- The snake eats the \_\_\_\_\_.
- The snake is eaten by the \_\_\_\_\_.
- The mouse is eaten by the \_\_\_\_\_.
- The mouse eats the \_\_\_\_\_.

Predict what would happen to each population if the **snakes were removed** from the community:

- The mouse population would \_\_\_\_\_.
- The grass population would \_\_\_\_\_.
- The bird population would \_\_\_\_\_.

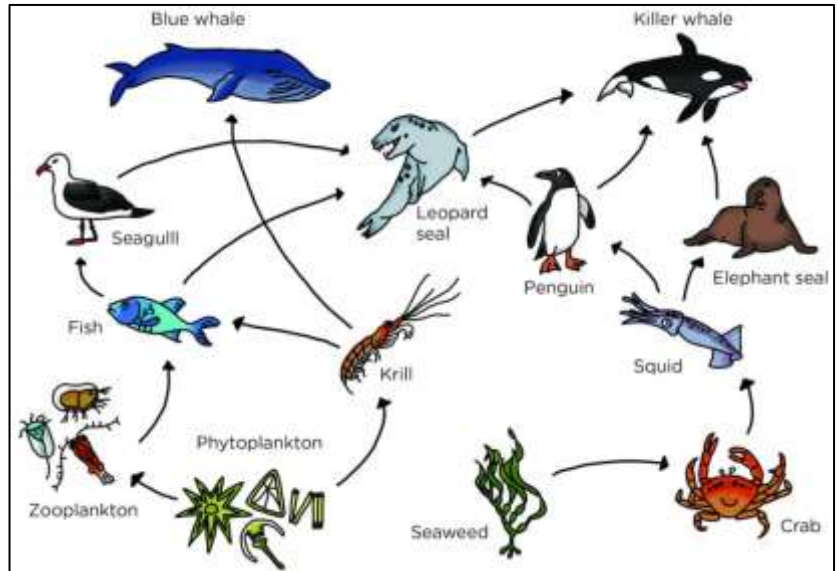
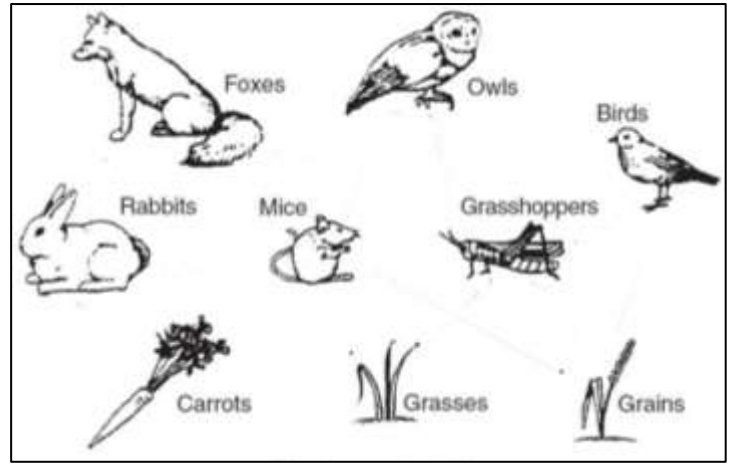
Explain how the grass is using sunlight, carbon dioxide, and water in this diagram:

\_\_\_\_\_

Complete the food web at right by drawing arrows (10-15) appropriately:

Analyze the food web below by completing each of the following statements:

- The phytoplankton and seaweed are \_\_\_\_\_.
- The krill is a \_\_\_\_\_ consumer.
- The fish is a \_\_\_\_\_ consumer.
- The penguin is a \_\_\_\_\_ consumer.
- The blue whale is a \_\_\_\_\_.
- The elephant seal competes with the \_\_\_\_\_ for food.
- The \_\_\_\_\_ has the most different sources of food.
- If the zooplankton were removed, the \_\_\_\_\_ would decline first.
- If the squid were removed, the \_\_\_\_\_ would increase first.



Complete the energy pyramid at right by labeling each trophic level:

- producers
- primary consumers
- secondary consumers
- tertiary consumers

Analyze the energy pyramid at right by completing each of the following statements:

- The \_\_\_\_\_ level contains the most stored energy.
- Only \_\_\_\_\_% of energy is transferred from one trophic level to the next.
- The amount of energy available at each level decreases by \_\_\_\_\_%.
- According to this energy pyramid, the kangaroo rat is a \_\_\_\_\_ consumer, and the coyote is a \_\_\_\_\_ consumer.

