STATION 1
DEFINITIONS

Matching: Match the descriptor with the BEST term

Definition	Term
____ 1. Living things that break down dead organic material to get the energy they need. ____ 2. A model that describes how food energy is passed from one living thing to another in an ecosystem. ____ 3. A model that shows the amount of energy available in each level of a food chain. ____ 4. Process that absorbs the outgoing solar energy in Earth's atmosphere ____ 5. Gases that absorb solar energy in Earth's atmosphere	a. Energy pyramid b. Producer c. Food web d. Primary consumer e. Greenhouse gas f. Greenhouse effect g. Decomposer h. Biomagnification

Sentence Completion: Complete the following sentence with the BEST term.

_____ is the increase in concentration of pollutants in tissues of organisms that are at successively higher levels in a food chain or food web.

The process by which pollutants collect in the cells and tissues of organisms is known as _____.

The term _____ is used to describe a long-term change in Earth's climate.

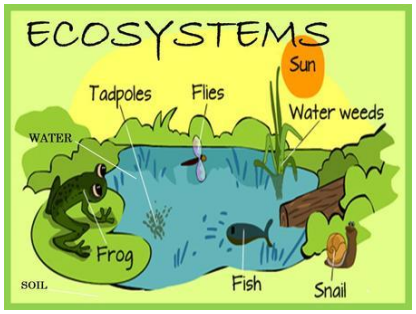
Process by which water is absorbed by the roots of plants, carried throughout the plant, and lost as water vapour through the leaves is known as _____.

The term _____ is used to describe when there is an increase in the average temperature of Earth's surface.

Word Bank:
abiotic, biotic, food web, point-source pollution, non-point source pollution, global warming, global climate change, carbon cycle, nitrogen cycle, phosphorus cycle, water cycle, biomagnification, bioaccumulation, geosphere, biosphere, atmosphere, hydrosphere, transpiration

STATION 2
BIOTIC AND ABIOTIC

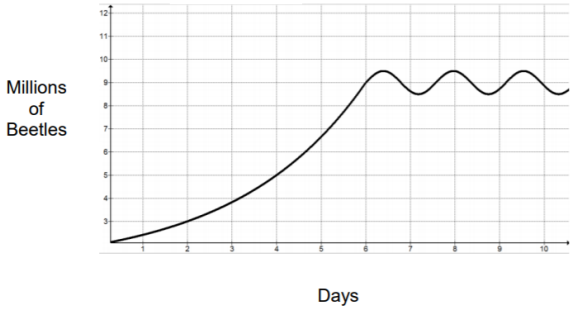
1. In the following diagram, find 3 abiotic and 3 biotic factors in the ecosystem:



Abiotic	Biotic

2. How are limiting factors related to carrying capacity?

3. Draw a line in the graph to represent the carrying capacity.

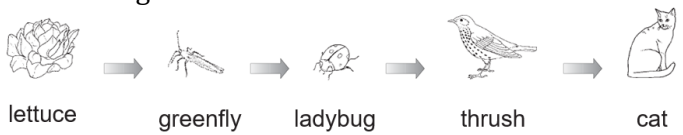


   a. What is the carrying capacity in this population of beetles?

   b. If the population continues to exceed the carrying capacity, what may happen over time?

STATION 3
FOOD CHAIN AND FOOD WEBS

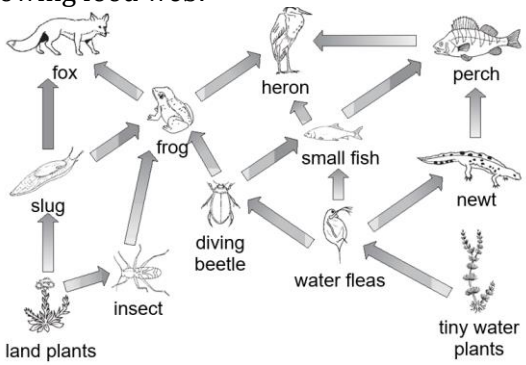
Use the following food chain:



1. What does the arrow mean in a food chain?

2. Name the producer in the food chain: _____
3. Name the 3rd trophic level in the food chain: _____
4. Name the apex consumer in the food chain: _____
5. If there is 1000 kg of lettuce in the environment, how many ladybugs would you expect to have?

Use the following food web:



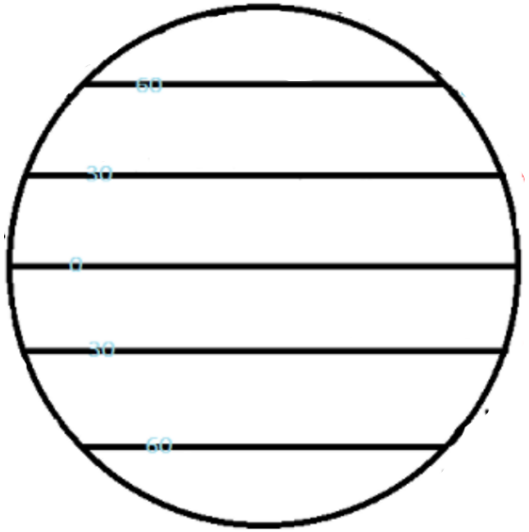
1. Name two producers in the food web.

2. Name the primary consumers in this community.

3. What would happen to this community if all of the frogs died suddenly?

STATION 4
WIND AND OCEAN CURRENTS

Identify and label the major wind systems that are on Earth:



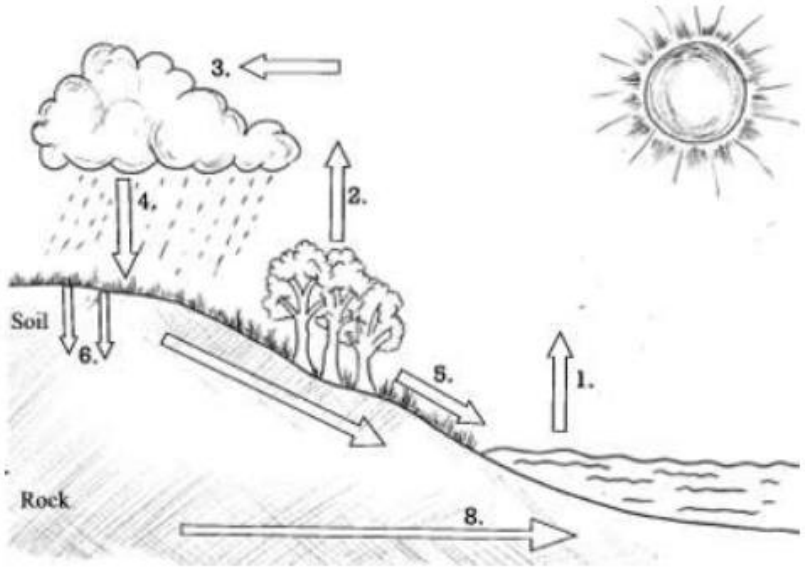
What causes the direction and motion of the winds to occur?

How are ocean currents and winds related?

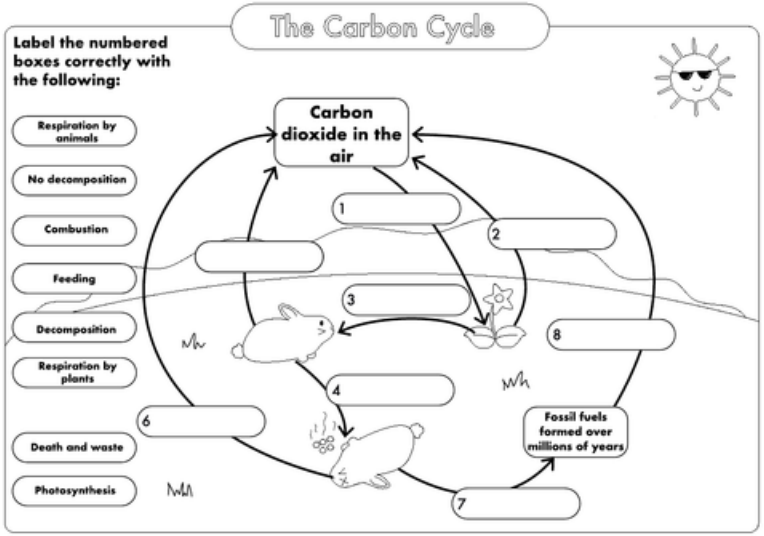
What major things does the Great Ocean Conveyer Belt transport around the Earth?

STATION 5
WATER AND CARBON CYCLE

Label the following water cycle:

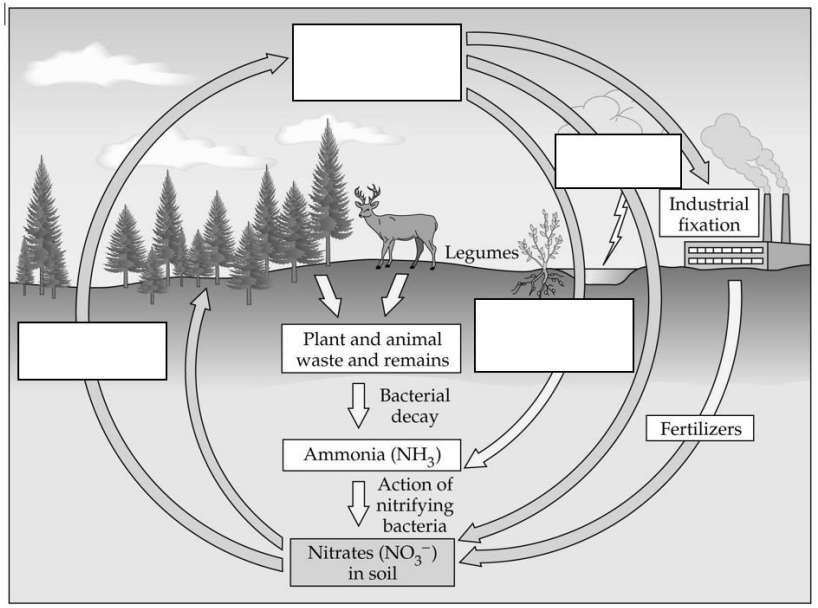


Label the following carbon cycle:



STATION 6
NITROGEN AND PHOSPHORUS CYCLE

Label the following nitrogen cycle:



Label the following phosphorus cycle: