



**COLEGIO NACIONES UNIDAS I.E.D.**  
**PREPARATORY WORKSHOP**  
**SECOND TRIMESTER**  
**SCIENCES 3°**

**NOTE:** the questions and answers must be copied and solved in the SCIENCES notebook, as a requirement to take the competency test.

**Delivery date: July 15<sup>th</sup>**

Read carefully and answer the questions according to what you saw in this second quarter.

## Read carefully

The environment is made up of all living beings and non-living beings that are part from a certain place. The group of living beings is called biotic factors. The set of non-living beings is called abiotic factors. Humans, animals, plants, fungi and microorganisms are examples of biotic factors. Water, soil, light, Sun and air are examples of abiotic factors.



Biotic factors need abiotic factors. For example: plants need of sunlight, water and soil to grow, make food and develop. Biotic factors also need other living beings to feed themselves, as does the cow with grass or shark with other fish.

Look at the following image and then answer the questions:



1. What living beings do you identify in the image?
2. Are water and soil non-living beings? why?
3. What is the use of water and soil for beings?
4. What is an ecosystem?
5. What characteristics do ecosystems have?
6. What factors intervene in an ecosystem?

## Pay

A food chain is a linear sequence of organisms through which nutrients and energy are transferred when one organism eats another.

### ELEMENTS OF A FOOD CHAIN

-The **SUN** is generally seen as the beginning of most chains food. Almost all the energy used by living beings to survive on earth comes from the sun.

-The **PRODUCERS** are the plants. They produce their own food from the sun, water, air (carbon dioxide), and soil.

- The **CONSUMERS**, who are generally animals, consume other plants and animals. So:

-A **HERBIVORE** only eats plants.

-A **CARNIVORE** only eats meat.

-An **OMNIVORE** is the most flexible; eats plants and animals.

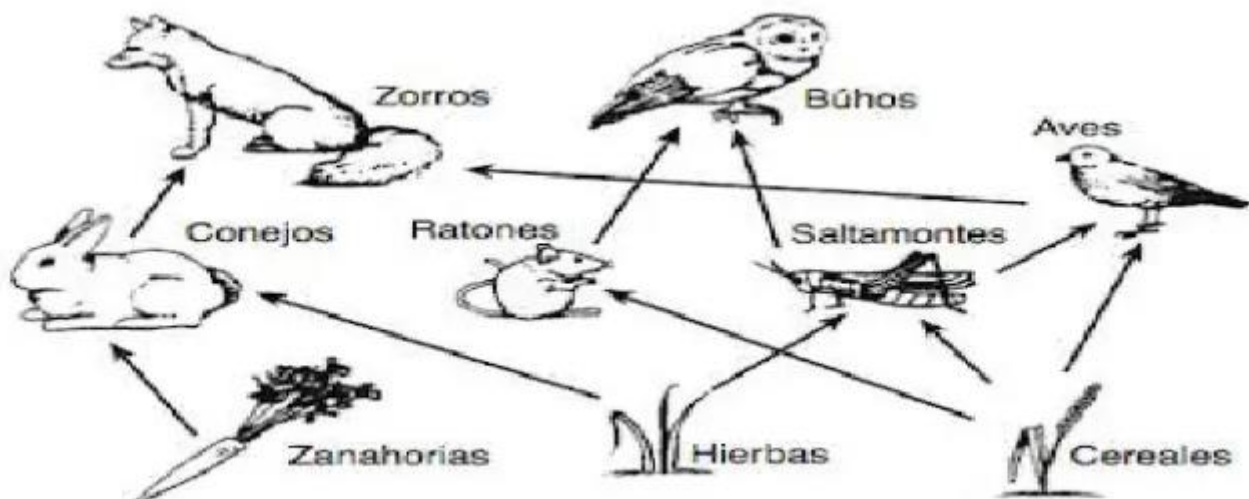
-**DECOMPOSERS**, which include bacteria, fungi and worms, are they feed on plant and animal waste, and decompose it in the soil. The Plants use soil to grow. The following is another example of a food chain.

7. With the following living beings, organize a food chain in a circle, taking into account what has been learned.



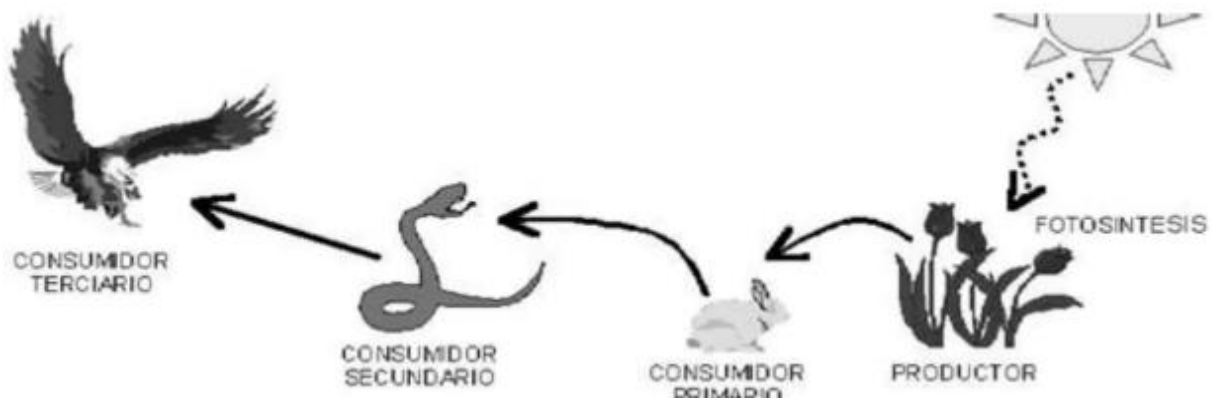
8. Look at the following diagram and build two food chains from it.

9. Through drawings, represent a food chain using at least 4 living beings and the sun.



10. What is the function of the food chain? or food web and write it in your words below.

11. Look at the following image and write a short story about what it represents.



12. What would happen if all the plants ran out in one place?