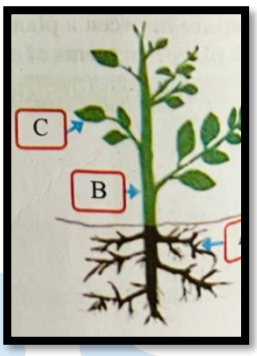
Complete the following:

1. …… and water are considered one of the basic needs for the growth and survival of living organisms.
2. …… help plant to get water from the soil.
3. The plant gets …… and …… from the soil.
4. The plant needs …… and water, and sunlight to carry out photosynthesis.
5. In photosynthesis, light energy in the plant is converted into …… energy.
6. The plant's source of energy is the …… sugar.
7. The plant's transportation system is similar to that of …… system in humans.
8. …… gas is produced by the process of photosynthesis and is used by humans in respiration.
9. The animal that feeds on another animal is called ……
10. Energy is transferred from …… to consuming organisms.

Look at the opposite picture and write what the letters indicate:



- (…..) An organ that transports water and nutrients from the soil to the rest of the plant in the direction of (……).
- (B) An organ that contains tissue called …… that transports water and nutrients from the roots to the leaves. As for a …… tissue, it transports manufactured food from the leaves to the rest of the plant.
- (…..) An organ that contain the food factory. In order to perform its function it needs …… and ……
- The process of making food is called the process of ……

Look at the following pictures and then answer:

Stems have different shapes, including

A wood stem as ……	…… as flowers	…… as grapes (vines)	Tuber stem as ……	…… as ……

Look at the opposite picture:

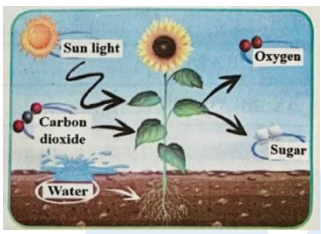
- Discuss how a plant absorbs water and nutrients from the soil and converts them into food.

……

……

……

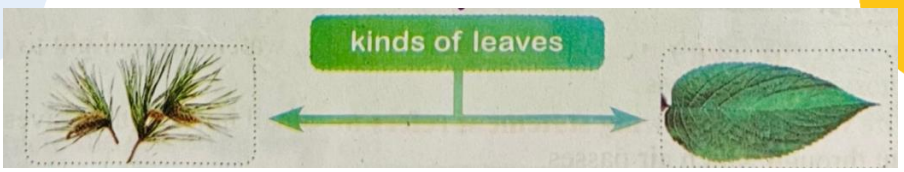
……



- Leaves contain …… which gives them …… colour.
- Chlorophyll absorbs …… energy.
- Carbon dioxide combines with water to produce ……

- The …… is responsible for transporting nutrients from leaves to other parts of the plant.
- The process of photosynthesis produces …… gas, which is used by humans and animals.
- Without plants, …… on earth would be impossible.

Describe the kind of leaves in front of you:

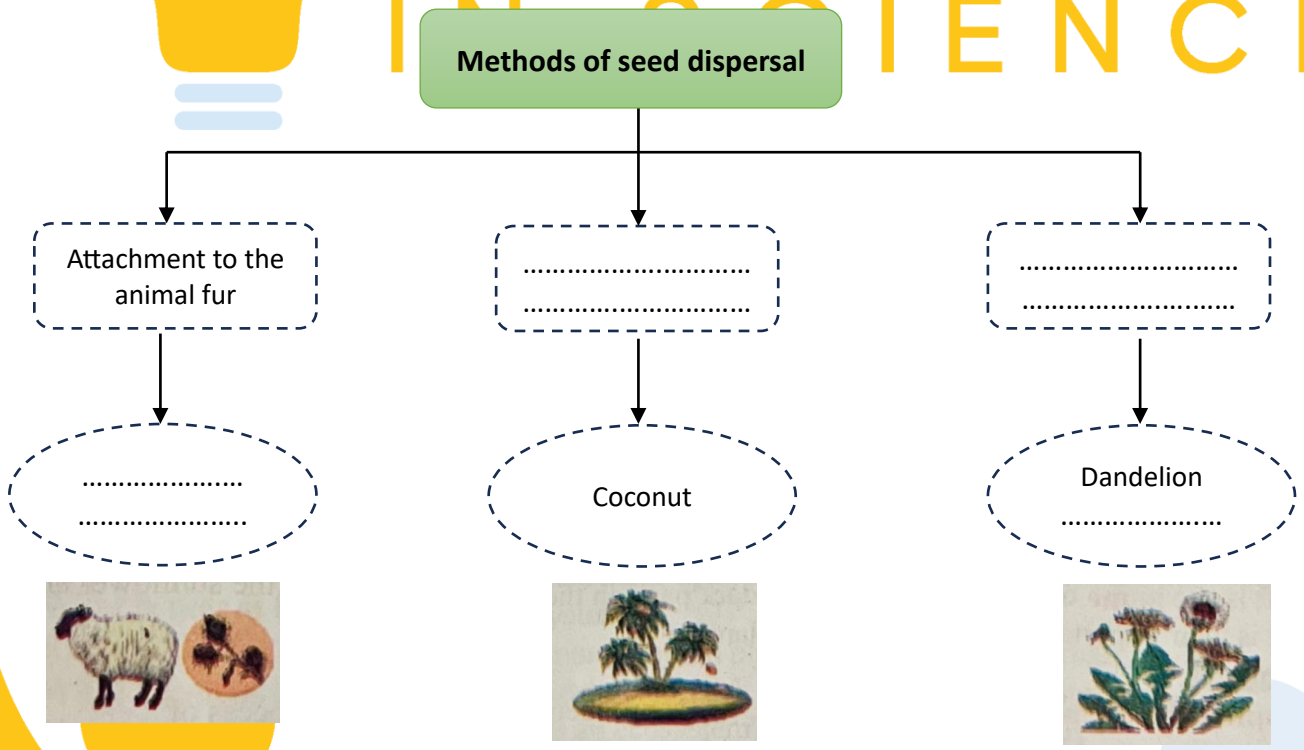


…… ……

Complete the following:

1. …… carry blood from heart to all body parts
2. …… carry blood from all body parts to the heart.
3. Flowers come in different shapes, colors, and sizes, but they all have one function: …… which is the process of producing new plants.
4. Observe the sunflower flower, you will find small dark parts located in the center of the flower called ……
5. When the main factors for growth (water, ……, and the suitable temperature) are present, …… grow into new plants.
6. Plants use the energy they get from food to produce ……
7. The seeds of different plants are …… in shape.
8. Seeds move from one place to another in different ways and this process is called ……

Complete the following diagram:



Write what is indicated by the following concepts:

Root hair	.....
Tubers	.....
Phloem vessel	.....
Xylem vessel	.....

Circulatory system	.....
Arteries	....
Veins	....
Plant reproduction	.....
Seeds	....

Give an example of:

1. A plant with runners stems. (.....)
2. Decomposers. (.....)
3. A consuming organism. (.....)
4. A producer organism. (.....)

What is the role of:

1. Roots in obtaining food for the plant?

   .....

2. Stems in the plant to get food?

   .....

3. Leaves in the plant to get food?

   .....

Correct the underlined:

1. The organ which responsible for plant reproduction is <u>the leaves</u>. (.....)
2. <u>Soft</u> seeds spread by sticking to the fur of animals. (.....)
3. Energy is transferred from <u>decomposing</u> organisms to consuming organisms. (.....)

Write the scientific term:

1. Small openings in plant leaves through which air passes. (.....)
2. Tubes in the plant responsible for transporting nutrients from the leaves to all parts of the plant. (.....)

3. A pigment responsible for the green color of plant leaves. (.....)
4. The process of producing new plants. (.....)
5. The movement of seeds from one place to another. (.....)
6. A set of vessels that transport important nutrients in one direction between the parts of the plant. (.....)
7. Reproductive parts of the plant. (.....)
8. A system made up of living organisms and nonliving things. (.....)
9. Living organisms that hunt other organisms to feed on. (.....)

Write what the following statement refers to:

1. Small holes in the leaves of a plant through which air passes. (.....)
2. A system consisting of living organisms and non-living things. (.....)
3. The main source of energy on the surface of the earth. (.....)
4. A set of different food chains. (.....)

Explain:

1. How does the plant make its food?

   .....

   .....

2. Humans feed on plants and animals.

   .....

   .....

Give reason:

1. The human body needs water and food on a daily basis.

   .....

2. Sugar is not a basic need for the plant.

   .....

3. A young squirrel needs food.

   .....

4. Sunlight is one of the basic needs of a plant.

   .....

5. The growth rate of a plant in soil is better than its growth rate a paper towel.

   .....

6. The importance of chlorophyll in plant leaves.

   .....

7. Sunlight is one of the basic needs of the plant.

   .....

8. The presence of root hairs in the plant's root.

   .....

9. A plant does not grow well on paper towels.

.....

10. The process of photosynthesis is important to living organisms.

.....

11. Coconut seeds are transported by water.

.....

12. Plants need sunlight.

.....

13. Maple seeds are dispersal by the wind.

.....

14. Oxygen gas and water vapor are by-products of photosynthesis for the plant.

.....

15. Dandelion seeds spread in the presence of wind.

.....

16. Plants are the main producers on Earth.

.....

.....

17. A plant needs sunlight.

.....

18. A food web is a system of energy transfer.

.....

.....

19. Decomposers have an important role in returning energy to the ecosystem.

.....

.....

What happens if:

1. The plant does not receive the necessary care.

.....

2. The plant does not have access to natural resources.

.....

3. There are no roots for the plant.

.....

4. Plants disappeared from the surface of the Earth?

.....

5. A green plant were placed in a dark place for a period of time?

.....

6. The temperature is too high for growth of seed.

.....

7. The seed of a plant falls on a suitable environment.

.....

8. The plant is left without water for long periods of time.

.....

9. The seed of a plant falls on an unsuitable environment.

.....

10. Sunlight does not reach the Earth's surface.

.....

11. Grass is removed from the ecosystem.

.....

Mention:

1. Some of the non-living components necessary for survival in an ecosystem.

.....

2. The function of root hairs.

.....

3. The function of phloem vessels in the plant.

.....

4. Two methods of seed dispersal.

.....

5. The components of the food chain.

.....

Form (make) a food chain from the following organisms:

1. Rabbit - grass - hawk – snake.

.....

2. Form a food chain from the following organisms: Insect - snake - grass - frog – hawk.

.....

3. Rabbit - Carrot - Snake - Bacteria - Hawk.

.....

How:

1. How do plants get their food?

.....

2. How do the parts of plant benefit from air, water and light to carry out vital processes?

.....

.....

.....

3. How is energy transferred in an ecosystem?

.....

.....

What:

1. **What** does the plant need to survive?

.....

2. **What** are the products of photosynthesis?

.....

3. **What are the types o**f blood vessels in the human circulatory system?

.....

4. **What are the different stages** that a plant goes through during its growth?

.....

5. **What is the name of** the small, dark parts in the middle of the sunflower and what is their importance to the plant?

.....

6. **What is meant by...?** Ecosystem.

.....

7. **What are the differences between** the needs of plants and humans?

.....

.....

8. **What are the similarities between** the needs of both plants and humans?

.....

Compare between:

1. The function of each of the following in the plant: phloem vessels - xylem vessels.

.....

.....

Which is better:

1. A plant that grows in soil or a plant that grows on paper towels?

.....

Arrange:

1. The parts of the plant according to water rise: (stem, leaf, root). (.....)