

FLORENCE INTERNATIONAL SCHOOL CLASS- VII WORKSHEET NO: 9 SCIENCE

NAME: DATE: 09/04/2020

TOPIC: NUTRITION IN PLANTS

Please follow the previous link and the given link before attempting the worksheet: https://www.youtube.com/watch?v=aBghNAghCYY

KEYWORDS:

- Nutrients Certain substances are present in the foods that help in the survival of the
 organisms. These special substances are called nutrients for example, proteins, vitamins,
 carbohydrates, minerals and fats. Some living organisms like green plants synthesize their
 food by themselves are producers or autotrophs while others such as animals depend upon
 the plants and other animals for their food.
- **Nutrition** -Nutrition can be defined as a process by which organisms take in the food and utilize it in order to survive.
- Mode of Nutrition
 - Based on the mode of nutrition organisms can be divided into two categories:
- Autotrophic Organisms The mode of nutrition in which the organism make their food by Themselves.
- Heterotrophic Organisms -The mode of nutrition in organisms that cannot make their food and depend on others for their food.
- Materials for photosynthesis

Plants prepare their food with the help of certain raw materials that they gather from their surroundings:

- 1. Water
- 2. Carbon dioxide
- 3. Sunlight
- 4. Minerals
- 5. Chlorophyll

The process by which plants prepare their food by using these raw materials is called **Photosynthesis**.

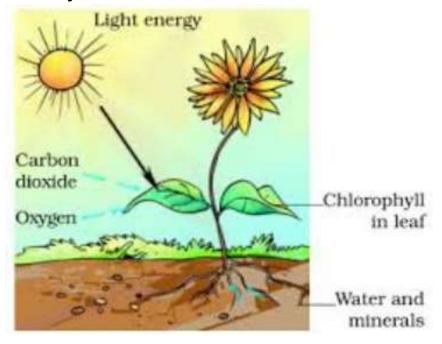


Figure: Photosynthesis

Transportation of water and Minerals in plants - The roots of the plants absorbs the water and minerals of the soil and then transports them to the leaves via stems and branches.

Vascular Tissues

Those tissues which transport water, minerals and food to different parts of a plant, are called vascular tissues.

There are two types of vascular tissues in a plant: xylem and phloem

Xylem- The tissue which carries water and minerals from the roots to the leaves of a plant is called xylem.

Phloem- The tissue which carries food from the leaves to other parts of the plant is called **phloem.**

• **Inhalation of Carbon Dioxide** - There are tiny holes or pores present on the surface of the leaves called **Stomata** that take in the carbon dioxide present in the atmosphere.

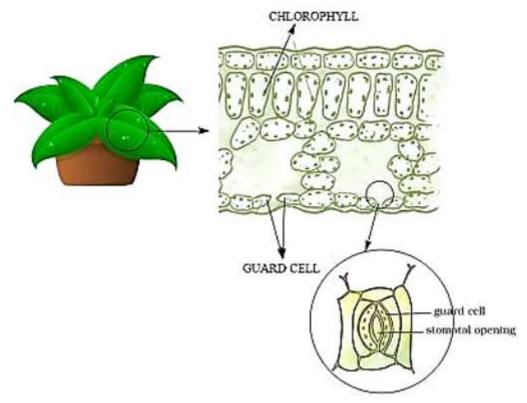


Figure: Stomata on leaves and the Chlorophyll

- Presences of Chlorophyll in the Leaves A substance called Chlorophyll is present in the
 leaves of the plants. It is a green colour pigment. The chlorophyll not only provides green
 colour to the leaves but also helps in the process of photosynthesis. Chlorophyll captures
 the sunlight and along with other raw materials prepares the food in the leaves. This process
 of photosynthesis only occurs in the daytime in the presence of Sunlight hence it i called
 Photosynthesis, photo means light.
- Sun is called the ultimate source of energy for all living organisms
 We know that the plants use solar energy to make their food. The herbivores animals
 depend upon the plants for their food. Animals (carnivores) that do not eat plants depend
 upon the herbivores animals. Therefore, all of the living organisms directly or indirectly
 receive their energy from the Sun.



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	heterotroph
d)is a root vegetable. What is meant by nutrition? What do you mean by autotrophic and	heterotroph
What is meant by nutrition? What do you mean by autotrophic and	heterotroph
What is meant by nutrition? What do you mean by autotrophic and mode of nutrition?	heterotroph
Differentiate between Xylem and Phloem	
Xylem Phloem	
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How do plants prepare their food?	

Describe vascular system present in plants. Sive reason why no life form can exist without Sun.		
Give reason why no life form can exist without Sun.	What are the d	lifferent modes of nutrition? Explain briefly.
Give reason why no life form can exist without Sun.		
Give reason why no life form can exist without Sun.	Describe vasc	ular system present in plants.
Give reason why no life form can exist without Sun.		
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