



SUBJECT: BIOLOGY
CHAPTER: 6
CHAPTER NAME: LIFE PROCESSES.
PERIOD-2

CHANGING YOUR TOMORROW

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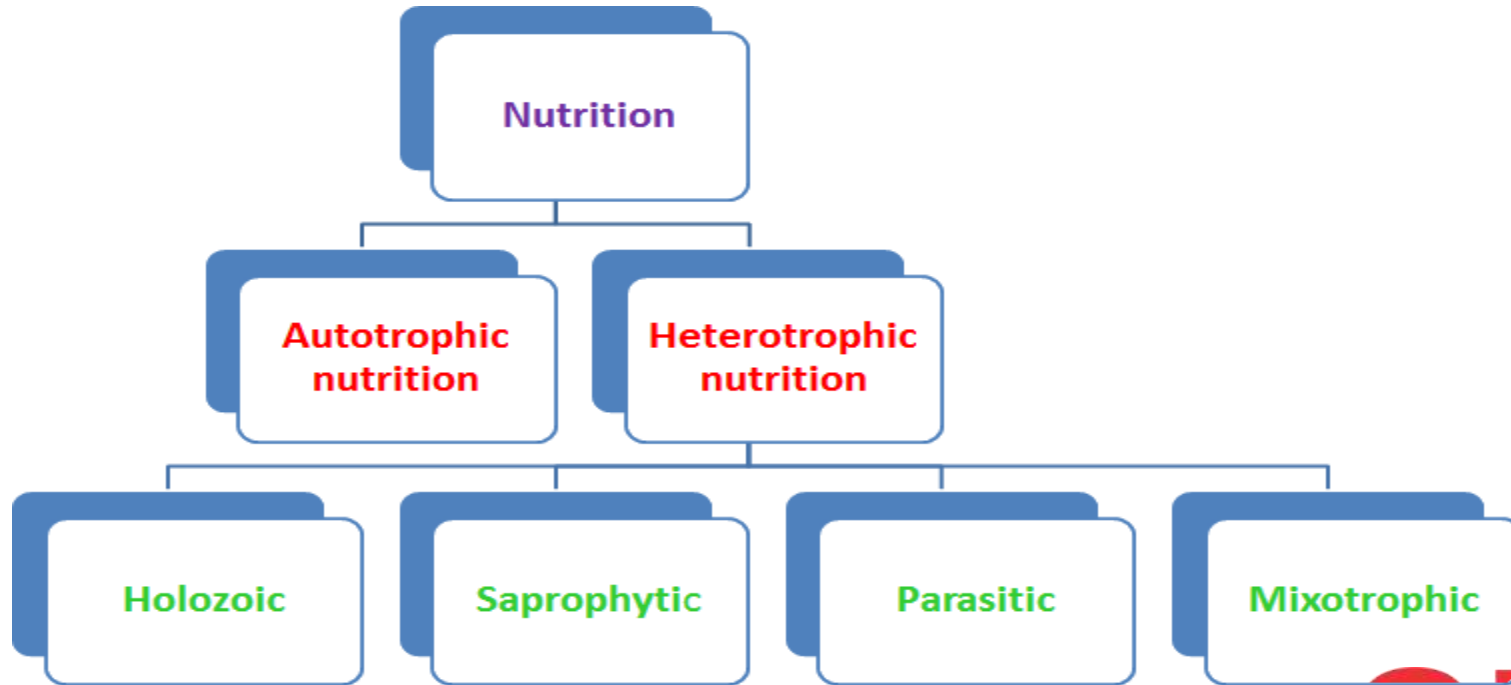
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Nutrition

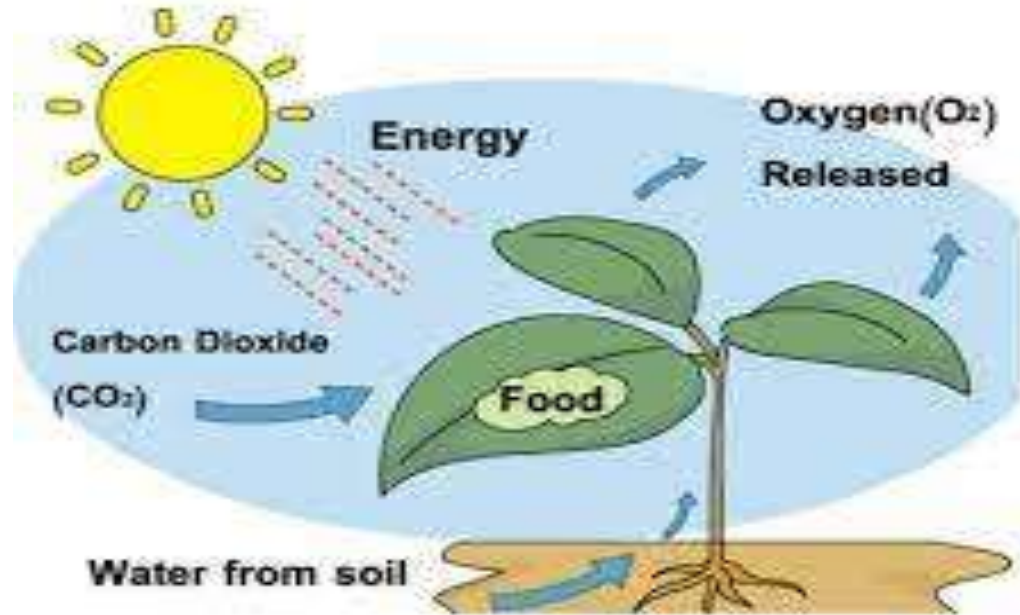
- NUTRITION-The process by which an organism takes food and utilizes it is called nutrition.
- NEED OF NUTRITION-Organisms need energy to perform various activities. The energy is supplied by the nutrients. Organisms need various raw materials for growth and repair. These raw materials are provided by nutrients.



Types of nutrition



Autotrophic nutrition.



Heterotrophic nutrition

HETEROTROPHIC



Holozoic Nutrition

- The organism feed by ingesting solid organic matter which is then digested and absorbed into their bodies.
- Eg. human, animals and insectivorous plants



Saprophytism

- Saprophytes.
- Feed on dead and decaying matter.
- Include bacteria and fungi which digest the food externally before the nutrients are absorbed.



Parasitism

- Obtains nutrients from living organisms
- The parasite obtains nutrients by living on or in the body of the host.
- Eg. fleas, lice and tapeworms

Saprophytic nutrition



Parasitic nutrition



Leeches



Ticks

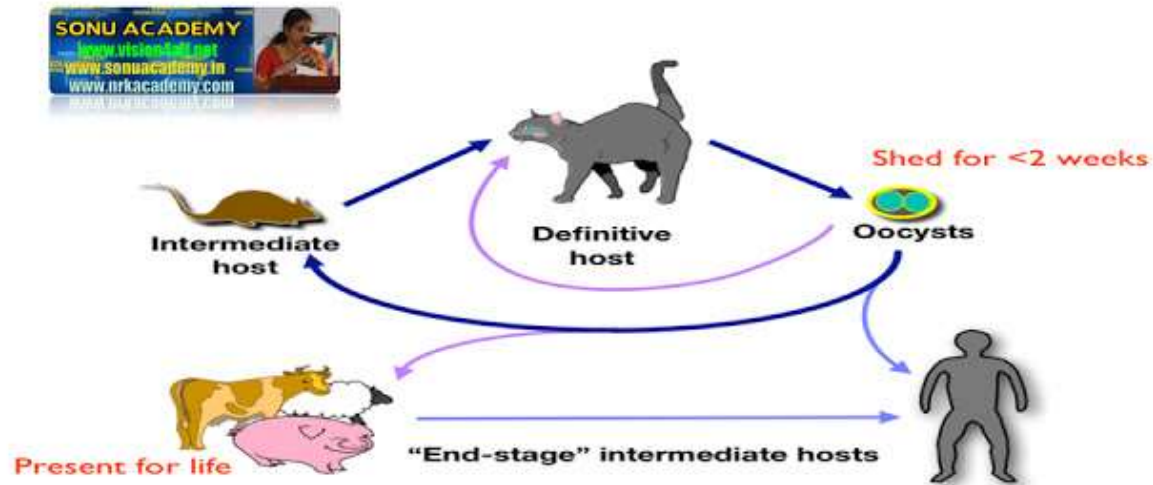
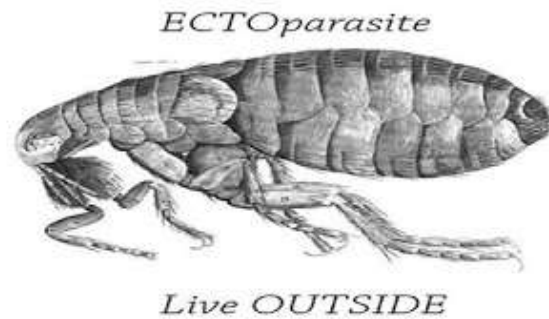
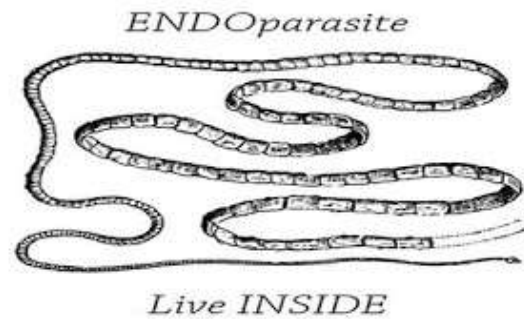


Lice



Cuscuta

Mixotrophic nutrition.

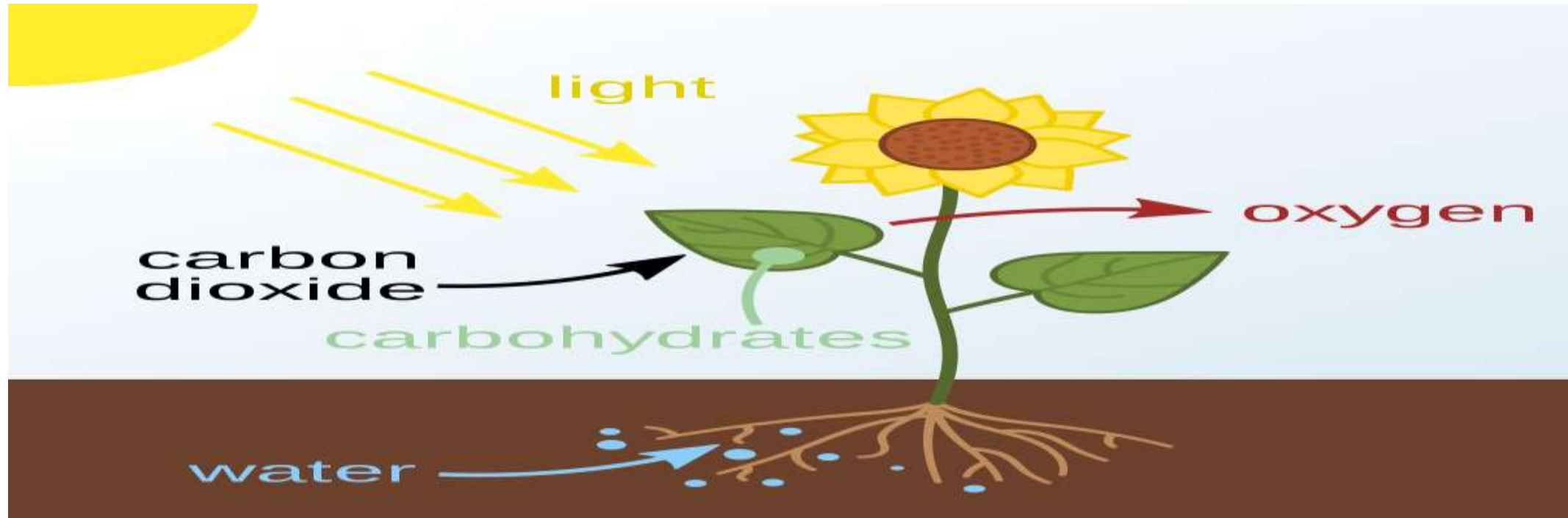


Photosynthesis

- The process by which green plants prepare food is called photosynthesis. During this process; the solar energy is converted into chemical energy and carbohydrates are formed. Green leaves are the main sites of photosynthesis. The green portion of the plant contains a pigment chloroplast; which contains chlorophyll. The whole process of photosynthesis can be shown by following equation:



Photosynthesis

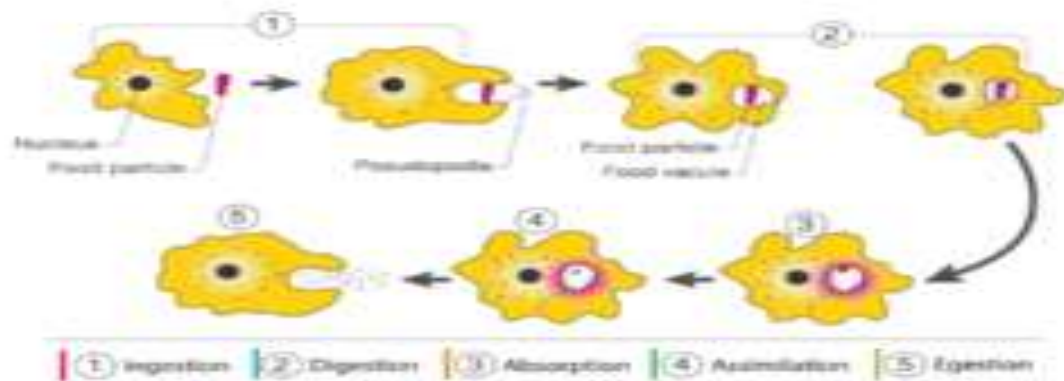


- https://www.youtube.com/watch?v=xEF8shaU_34



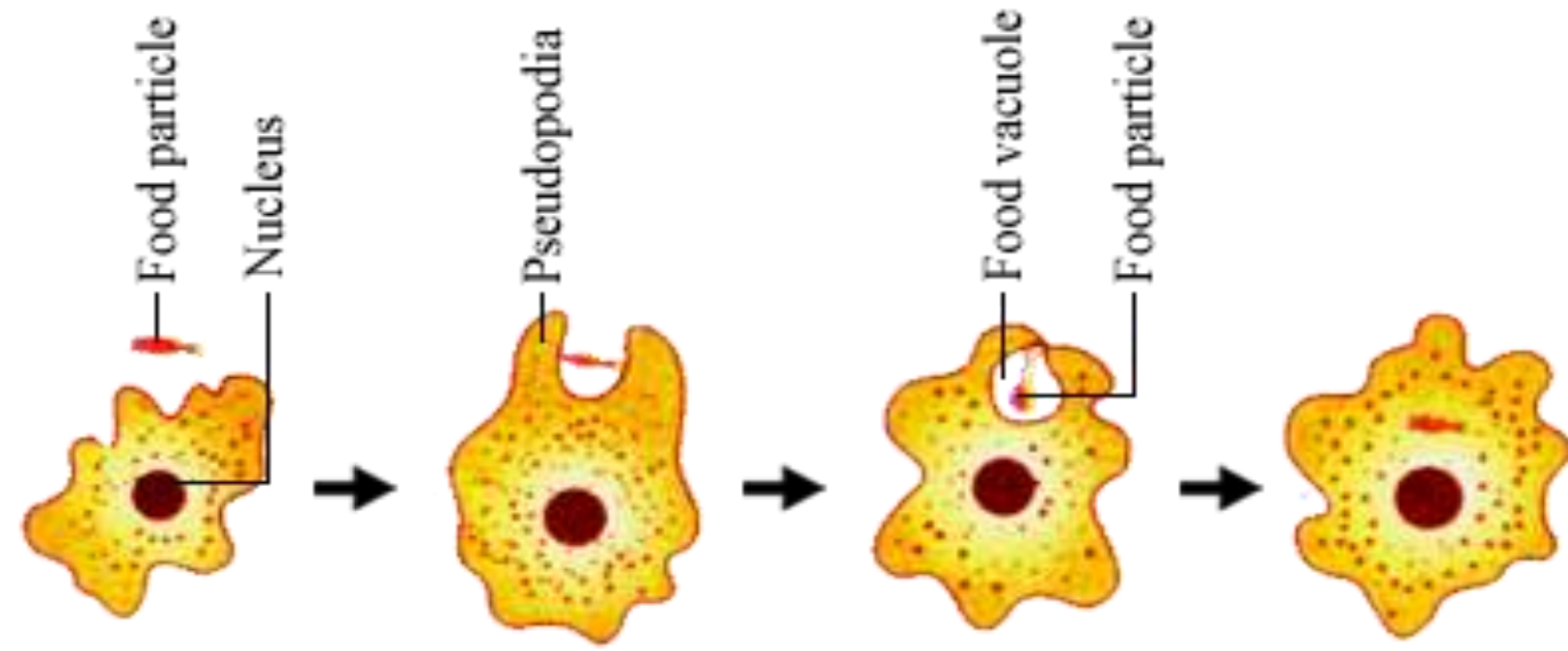
Holozoic nutrition

- Holozoic Nutrition: In holozoic nutrition, the digestion of food follows after the ingestion of food. Thus, digestion takes place inside the body of the organism. Holozoic nutrition happens in five steps, viz. ingestion, digestion, absorption, assimilation and egestion.



Nutrition in Amoeba

- Amoeba is a unicellular animal which follows holozoic mode of nutrition. The cell membrane of amoeba keeps on protruding into pseudopodia. Amoeba surrounds a food particle with pseudopodia and makes a food vacuole. The food vacuole contains the food particle and water. Digestive enzymes are secreted in the food vacuole and digestion takes place. After that, digested food is absorbed from the food vacuole. Finally, the food vacuole moves near the cell membrane and undigested food is expelled out.



- <https://www.youtube.com/watch?v=u7IN7HTWzLs>



HOME ASSIGNMENTS

- In box Question - 2, Pg No-101 and Exercise Question No- 7



THANKING YOU
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