

## LESSON PLAN

CLASS :7<sup>TH</sup>

SUBJECT: General Science

Name of the Teacher:

Name of the School:

Name of the Lesson/Unit	Topic	No. of Periods Required	Time line for teaching		Any specific Information
			From	To	
<b>Nutrition in Organisms</b>	Modes of Nutrition	2			Conduct group discussion on Insectivores Plants
	Auto trophic nutrition -Photo synthesis	2			
	Essential raw materials for photosynthesis	1			
	Saprophytic nutrition	1			Conduct group discussion Symbiosis of different organisms.
	Parasitic nutrition	1			
	Holozoic nutrition	1			
	Nutrition in Amoeba	1			
	Nutrition in Human beings	3			

**Prior Concept/ Skills:** *(Essential concepts and skills to be checked/bridged before teaching the current concept.)*

*Importance of nutrition, Different types of food, food components, Ingredients that required for Preparation of food, mushrooms, Names of basic parts in the digestive system, balanced diet ruminant in buffalo,*

**Learning Outcomes:** *(Select from SCERT Academic Calendar and Textbook)*

1. Classifies organisms based on types of nutrition.
2. Conducts simple investigations to know that whether leaves other than green also carry out photosynthesis?
3. Writes word equation for photosynthesis
4. Identifies different types of teeth and their functions.
5. Explains process and phenomena of organs and systems of nutrition in organisms.
6. Draws labelled diagrams/ flowcharts of human digestive system.
7. Constructs models and explains their working.
8. Applies learned scientific concepts in day-to-day life such as dealing with acidity and avoiding junk food.
9. Discusses and appreciates the greatness of plants for providing oxygen and food for all animals.

**No. of Periods:**  
**12**

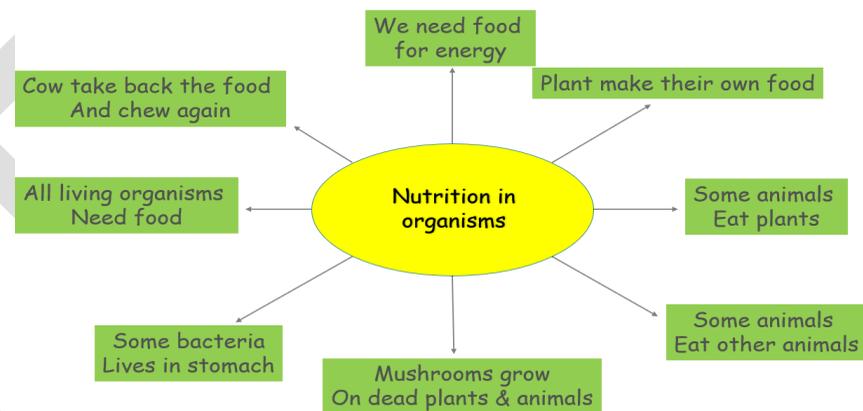
## TEACHING LEARNING PROCESS

**Induction/Introduction** (*Generating interest, informing students about the outcomes and expectations for the lesson*)

Mind mapping (KWL Activity)

I show them some pictures and write the Nutrition in organism on board and ask some probing questions.

1. Why do we need food?
2. Which organism can make their own food?
3. What is the food of herbivores like cow, goat, and deer?
4. What is the food of carnivores like Lion, tiger and fox?
5. Where do mushrooms grow?
6. Do you agree that some bacteria grow in our stomach?
7. Did you observe that cow take back their food in to mouth and chew again?
8. Why should we chew the food?



**Experience and Reflection** (*Task/question that helps students explore the concept and connect with their life*)

1. What happens if we do not take the food?
2. Do all the living organisms takes the food in same way?
3. Plants prepares their own food but we cannot why?
4. Why mushrooms grow on dead and decay matter?
5. Why some plants can not make food by photosynthesis?

**Explicit Teaching/Teacher Modelling** (*I Do*)

1. Discuss about Nutrition by familiarizing new vocabulary
2. Discussion on preparation of food by us and preparation of food by plants(Photosynthesis)
3. Discussion: How do you know whether photosynthesis occur in plants or not?
4. Explains essential factors for photosynthesis.
5. Discussion about bred mould.  
Have you ever seen bread mould? (Watching bread mould OR related video)
6. How can it form on Bead?
7. Discussion on Parasitic nutrition in Dodder plant  
Why Dodder plant became a parasitic?
8. Explains the Nutrition process occurred in Amoeba?  
Discussion:
9. Have you ever wondered what happens to the food inside

**Group Work** (*We Do*)

1. Activity -1 completion of table- 1 *Identification of Autotrophs and Heterotrophs.*
2. Activity-2 To know whether leaves other than green perform photosynthesis or not
3. Activity -3 Conducting Iodine test.
4. Activity-5 Filling the Table-3 Types of Teeth
5. Project work: Prepare a model of structure of teeth with clay.

**Independent Work** (*You Do*)

1. Observation of Table-2
2. Collects money plant leaves for observation of chlorophyll.
3. Draws diagrams of T.S of Leaf and structure of Stomata.
4. Activity -4 Conducting Experiment
5. Collection of Dodder plants.
6. Drawing of Flow chart on Holozoic nutrition.
7. drawing of Nutrition in Amoeba.
8. Draws the flow chart of human digestive system.
9. Draws the picture of human digestive system.

the body

### Check For Understanding Questions

#### Factual:

1. What is nutrition? How many types are there?
2. What are the factors essential for photosynthesis in plants?
3. Give some examples for saprophytes and parasitic plant?
4. How many types of teeth are there in human beings? and what are they?

#### Open Ended / Critical Thinking:

1. Your friend is suffering from Acidity. What suggestions did you give to him?
2. What measures you take to avoid damage of food by fungus in your home?
3. What precautions you take to avoid tooth decay?
4. What happens if saprophytes are not there on the earth?

#### Student Practice Questions & Activities (Exercises from workbook / textbooks/ blackboard)

1. Draw a neat labelled diagram of human digestive system?
2. Draw flow chart on digestion process in Amoeba?
3. Describe different types of teeth and their functions?

#### TLM (Digital + Print)

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- [https://diksha.gov.in/resources/play/content/do\\_31310503282283315212248](https://diksha.gov.in/resources/play/content/do_31310503282283315212248)
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1. T.S of Leaf Chart
2. Structure of stomata chart.
3. Flow chart on stages of Holozoic nutrition.
4. Structure of Human Digestive system Chart.
5. 10<sup>th</sup> class Biology text book

#### DIGITAL CONTENT

1. Showing Videos on Insectivorous plants.
2. Process of digestion in Human beings.

#### Assessment (Think of what children SAY, DO and MAKE while learning that can form the evidence of learning to be used for assessment).

1. Distinguish between auto trophic and hetero trophic nutrition?
2. How can you classify the organisms based on the type of nutrition?
3. How can you prove that the leaves other than green also carryout photosynthesis?
4. Write the equation of photosynthesis.
5. How can you Identify the different types of teeth and write their functions?
6. Draw a Flow chart of human digestive system?
7. Make a model of different teeth with ecofriendly material.
8. What is Photosynthesis? Write its word equation?
9. Describe different types of teeth and their functions?
10. What precautions will you take to keep your digestive system healthy?
11. What food habits do you change after learning the facts about digestive system?
12. How do appreciates the greatness of plants for providing oxygen and food for all animals.

SIGNATURE OF THE TEACHER

SIGNATURE OF THE HEAD MASTER

VISITING OFFICER WITH REMARKS