

SUBJECT: BIOLOGY
TOPIC: NUTRITION IN ANIMALS

DIARY- LESSON PLAN

Pre- Content/Content / Post –content	Learning Outcome/Objectives	
	<u>General</u>	<u>Specific</u>
Pre Content: Students know that food is essential for all living organisms. They have learnt that plants can prepare their own food by the process of photosynthesis but animals cannot. Animals take their food either from plants or animals. The food taken is broken down into simpler substances so that it can be utilized by the body by the process of digestion Content: • Introduction • Different ways of taking food • Digestion in humans • Digestion in grass-eating animals(ruminants) • Feeding and digestion in Amoeba Post Content: The student at the end of the chapter should be able to comprehend the following concepts. • Nutrition in animals is a complex process which involves various steps. • Correlate structure and function of human digestive system.	Students will be able to: • learn about the animal nutrition • explain the entire process of digestion in the alimentary canal • develop curiosity regarding digestion in other animals and amoeba • imbibe respect for all life forms around us	Students will be able to: • develop the concept of animal nutrition and digestion • explore the modes of feeding • organize and discuss the parts of alimentary canal, the glands associated with digestive system in human • identify the type and function of teeth • label different region of tongue for different tastes • organize the events occurring sequentially during the process of digestion • compare the process of digestion of different components of food • evolve the concept of digestion in the ‘compound stomach, of ruminants • compare the simple mode of nutrition in amoeba with other nutrition mode

Home Work / Assignments

- Worksheets and assignments.
- Question answers from text-book.

AND PROGRESS

MONTH: AUGUST
CLASS: VII

Teacher's Activity	Student's Activity	Teacher's Observation and Remedial action taken
Teacher will: Introduce the topic by asking thought provoking, imaginative questions to enhance the participation and the interest of the students. begin the chapter by asking the students and explaining the different ways of taking food <u>Annexure 2 (A):</u> explain with an activity that the process of digestion starts in the mouth and the action of saliva on starch. explain the various parts of the alimentary canal along with their functions explain the nutrition in amoeba explain the digestion in ruminants explain the show the process of making an ORS solution	Students will: actively participate in the discussion and note down the points in their notebook actively participate in the discussion and classify the various modes of feeding .Complete the table 2.1 on page No. 11 (NCERT) <u>Annexure 2 (a):</u> observe the activity and record their observations draw and label the human digestive system in their notebooks draw and label the diagram of amoeba in their notebooks. draw and label the diagram of the digestive system of a cow in their notebooks. make their own ORS solution	.

Teaching Aids – Active Inspire boards, Materials required for activities, worksheets, textbook, Activity Kits

Methodology / Innovative Methods: Activity based teaching, Know to Unknown, Discussions, Activity method, brainstorming sessions.

Interdisciplinary Links –

- **English** – It will improve the power of expression while explaining the events of digestion in human and other animals and also vocabulary
- **Art**-Diagram of digestive system, tongue, nutrition in ruminants and amoeba

HOD

Coordinator

Vice-Principal

Principal

ANNEXURE 2 (A) & (a)-WINDOW TO THE DIGESTIVE SYSTEM

Subject	Science
Class	VII
Chapter/Unit	Nutrition in Animals
Topic	Digestion
Time	30 minutes
Nature of Activity	Individual

What will I learn (Learning Outcome)?

To observe the action of saliva on starch.

Skills: Analysing and Applying

What I have to do?

To test the action of saliva on starch.

What do I require?

Two test tubes, beaker, some starch (corn flour), iodine solution, saliva, warm water.

What do I need to know?

- Saliva is secreted in the mouth and it helps in the process of digestion.
- Iodine changes its color to blue- black in the presence of starch.

➤ Teacher's Activity

Teacher will

1. explain that the process of digestion starts in the mouth and saliva is secreted by the salivary glands.
2. arrange the materials for the individual.
3. give instructions regarding the activity.

How will I proceed?

➤ Student's Activity

1. Take a teaspoon of water and a pinch of starch (corn flour) in each of the two test tubes.
2. Label the test tubes A and B.
3. Add a drop of iodine to test tube A and shake well.
4. Add saliva to test tube B and place the test tube in a beaker of warm water for five minutes.
5. Add a drop of iodine solution to test tube B.

What have I observed?

Test solution	Test tube A	Test tube B
Iodine		

What have I learnt?

The saliva is a digestive juice secreted by the _____ glands and it also converts starch into _____. The digestion of _____ starts in our mouth.

What am I curious to learn?

- Let us carry out some more activities with some other different types of carbohydrate containing substrate like potato, bread, rice etc.

Let me evaluate myself

Q1. Mention any two functions of saliva.

Ans. _____

Q2. What is the action of saliva on food?

Ans. _____

Q3. Name the gland associated with the secretion of saliva.

Ans. _____

Q4. How many pairs of salivary glands are there in humans?

Ans. _____

Q5. Name the reagent used to test a carbohydrate containing food and identify the color change on pouring the reagent on it.

Ans. _____

_____.