

# 2

## Nutrition in Animals

### LESSON PLAN

#### SPECIFIC OBJECTIVES

The students will learn about

- ✧ modes of nutrition in animals
- ✧ steps in animal nutrition
- ✧ nutrition in *Amoeba*
- ✧ nutrition in humans
- ✧ digestion of food in ruminants

#### TEACHING AIDS

**Pictures/charts/models/animations** on herbivores, carnivores, omnivores; nutrition in *Amoeba*; human digestive system; dentition in man, parts of a tooth, tooth decay, location of different taste buds on tongue, peristaltic movements in oesophagus, intestinal villi; alimentary canal of a ruminant, stomach of a ruminant, etc.

#### LESSON PLAN

- ✧ The teacher should start the chapter with 'Gear Up' and help students to answer the questions asked in this section.
- ✧ Teacher should describe heterotrophs and heterotrophic mode of nutrition.
- ✧ Teacher should discuss the types of heterotrophs, i.e., herbivores, carnivores and omnivores based on their eating habits.
- ✧ Students should be asked to categorise the given animals in the respective groups in Activity 1.
- ✧ The teacher should describe different steps involved in animals nutrition.
- ✧ Now, the teacher should discuss nutrition in *Amoeba*.
- ✧ Now, teacher will discuss nutrition in humans by describing the digestive system, dentition, structure of a tooth, taste buds, etc.
- ✧ The teacher should discuss tooth decay and importance of oral hygiene.
- ✧ Now, teacher should define ruminants and food digestion in them.
- ✧ The teacher should ask the students to solve 'Check Points' 1, 2 and 3.
- ✧ At last, the teacher will sum up the lesson by going through the points given under the head 'Wrap Up Now'.

- ✧ The teacher will help the students to solve all the questions given in exercises under the head 'Practice Time' and will also discuss the topics given under the head 'Formative Tasks'.

### **BOOST UP**

- ✧ Students should be given Activity 2 as home assignment and they should be asked to discuss the result next day in the class.
- ✧ Teacher should perform Activity 3 while discussing the role of saliva in digestion.

### **EXPECTED LEARNING OUTCOMES**

The students know about

- ✧ heterotrophic mode of nutrition.
- ✧ kinds of animals based on their eating habits.
- ✧ nutrition in humans.
- ✧ digestion of food in ruminants.

### **EVALUATIVE QUESTIONS**

The teacher may ask the following questions for evaluating the understanding of students.

1. Define herbivores and give their two examples.
2. What is the difference between absorption and assimilation?
3. What are incisors used for?
4. Define tongue and write its three functions.
5. Which is the largest gland in the body?
6. What is meant by defecation?
7. How is cellulose digested?