

# Adaptations of Animals to Climates

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## LESSON PLAN

### SPECIFIC OBJECTIVES

- | The students will learn about
- | ✦ adaptation
- | ✦ adaptations in animals living in different climates

### TEACHING AIDS

Pictures/charts/models/animations on locations of deserts, polar areas and rainforests on the world map; adaptations in camel, polar bear, penguin and elephant; migratory birds; arboreal habits in monkey; red-eyed frog; feeding habit of toucan; camouflaging animals; lion-tailed macaque, etc.

### LESSON PLAN

- ✦ Teacher will start the chapter by going through the points given in 'Know these points before you start' section.
- ✦ Teacher will define the term adaptation, its types and importance of adaptation to animals.
- ✦ With the help of different teaching aids, teacher will explain adaptations found in animals living in different climates, i.e., camel in desert, polar bear and penguin in polar region and animals living in rainforest and tropical forests (as given in the chapter).
- ✦ Now, teacher will ask students to solve Check Points 1 and 2.
- ✦ Teacher will make students revise the new terms given under the head 'Know These Terms'.
- ✦ Finally, teacher will help students to solve the questions given in exercises under the head 'Practice Time' and 'Think Zone'.

### BOOST UP

- ✦ Teacher should discuss the information given under the head 'Something More'.
- ✦ Teacher should discuss the conversation of Annu and Mannu given in between the topics.
- ✦ Teacher should encourage students to watch Discovery, National Geographic and Animal Planet channels to know more about plants and animals.

## EXPECTED LEARNING OUTCOMES

The students know about

- ✧ adaptation, its types and importance to animals
- ✧ adaptations in animals living in different climates
- ✧ migration, its causes and migratory birds
- ✧ camouflaging animals

## EVALUATIVE QUESTIONS

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

1. What is adaptation?
2. Why is adaptation required in animals?
3. Which animal is called 'the ship of desert' and why?
4. What is the importance of thick fur to polar animals?
5. Why do animals migrate?
6. What is a prehensile tail?
7. Which feature of red-eyed frog helps it to climb up the tree?
8. How does camouflaging help an animal?
9. How is long, large beak of toucan helpful to it?
10. What purpose does an elephant use its tusks and trunk for?