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Weather, Climate and Adaptations in Animals

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ✧ weather and its elements
- ✧ weather forecast and its benefits
- ✧ climate and determining the climate of a place
- ✧ geographical factors affecting the climate
- ✧ adaptations in animals to different climates

TEACHING AIDS

Pictures/charts/models/animations on maximum-minimum thermometer, rain gauge, hygrometer, anemometer, weather station, wind vane; different temperature zones of the earth; locations of tropical rainforests on map; migratory birds; polar bear, penguin and camel.

LESSON PLAN

- ✧ The teacher will start the lesson with 'Science Vocabulary' section by telling the meaning/definition of new terms which are used in the chapter.
- ✧ The teacher should define weather and its different elements.
- ✧ The teacher should define weather forecast, the information it gives and its benefits.
- ✧ The teacher should define climate and how to determine the climate of a place.
- ✧ The teacher should discuss the various geographical factors affecting the climate of a place.
- ✧ The teacher should define adaptation and discuss the adaptations found in animals of different climates, i.e., in polar regions, in tropical rainforests, in hot deserts, etc.
- ✧ The teacher should ask the students to solve 'Check Points' 1, 2, 3 and 4.
- ✧ The teacher will help the students to solve the questions given in exercises under the head 'Let's Drill Our Skills' and to complete the flowchart given under the head 'Let's Memorise'.

BOOST UP

- ✧ The teacher should give Activities 1, 2 and 3 as home assignment to students and ask them to discuss its conclusions in the class.
- ✧ Students should be encouraged to gather information on plants, animals and people's lifestyles of various countries.

EXPECTED LEARNING OUTCOMES

The students know about

- ✧ weather and its elements.
- ✧ weather forecasting and its benefits.
- ✧ climate and determination of climate of a place.
- ✧ geographical factors affecting the climate of a place.
- ✧ adaptations in animals to different climates, i.e., polar regions, tropical rainforests and hot deserts.

EVALUATIVE QUESTIONS

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

1. Define weather and mention its elements.
2. What is meant by weather forecasting?
3. Mention the benefits of weather forecasting.
4. How can we determine the climate of a place?
5. Explain the geographical factors which affect climate of a place.
6. Mention the adaptations in animals living in deserts.
7. How do polar bears cool themselves on warm sunny days?