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1 Nutrition in Plants

In Class VI you learnt that food is essential for all living organisms. You also learnt that carbohydrates, proteins, fats, vitamins and minerals are components of food. These components of food are necessary for our body and are called nutrients.

All living organisms require food. Plants can make their food themselves, but animals including humans cannot. They get it from plants or animals that eat plants. Thus, humans and animals are directly or indirectly dependent on plants.

Did you know? Plants can make their food themselves, but animals including humans cannot. They get it from plants or animals that eat plants. Thus, humans and animals are directly or indirectly dependent on plants.

1.1 Mode or Nutrition in Plants
Plants are the only organisms that can prepare food for themselves by using water, carbon dioxide and minerals. The raw materials are present in their surroundings.

The nutrients enable living organisms to build their bodies, to grow, to repair damaged parts of their bodies and provide the energy to carry out life processes. Nutrition is the mode of taking food by an organism and its

utilisation by the body. The mode of nutrition in which organisms make food themselves from simple substances is called autotrophic nutrition. Therefore, plants are called autotrophs. Animals and most other organisms take in ready food prepared by other organisms. They are called heterotrophs (heteros = other).

Did you know? Plants can make their food themselves, but animals including humans cannot. They get it from plants or animals that eat plants. Thus, humans and animals are directly or indirectly dependent on plants.

1.2 Photosynthesis in Plants
Leaves are the food factories of plants. The synthesis of food in plants occurs in leaves. Therefore, all the raw materials must reach there. Water and minerals present in the soil are absorbed by the roots and transported to the

leaves. The nutrients enable living organisms to build their bodies, to grow, to repair damaged parts of their bodies and provide the energy to carry out life processes. Nutrition is the mode of taking food by an organism and its

Preface

The National Council of Educational Research and Training (NCERT) is pleased to announce the publication of the new edition of the Class 7 Science textbook. This edition has been prepared in accordance with the revised syllabus for Class 7 Science. The textbook is designed to be user-friendly and to provide a solid foundation for the students. It covers all the important topics and concepts prescribed in the syllabus. The language used is simple and clear, and the illustrations are attractive and helpful. We hope that this textbook will be useful to the students and will help them to learn Science with interest and enjoyment.

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