

SCIENCE

VISION

for the young scientist

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**Behind Silver Line School,
Laxmipuram, Rajpur Chungi, Agra**

New Edition

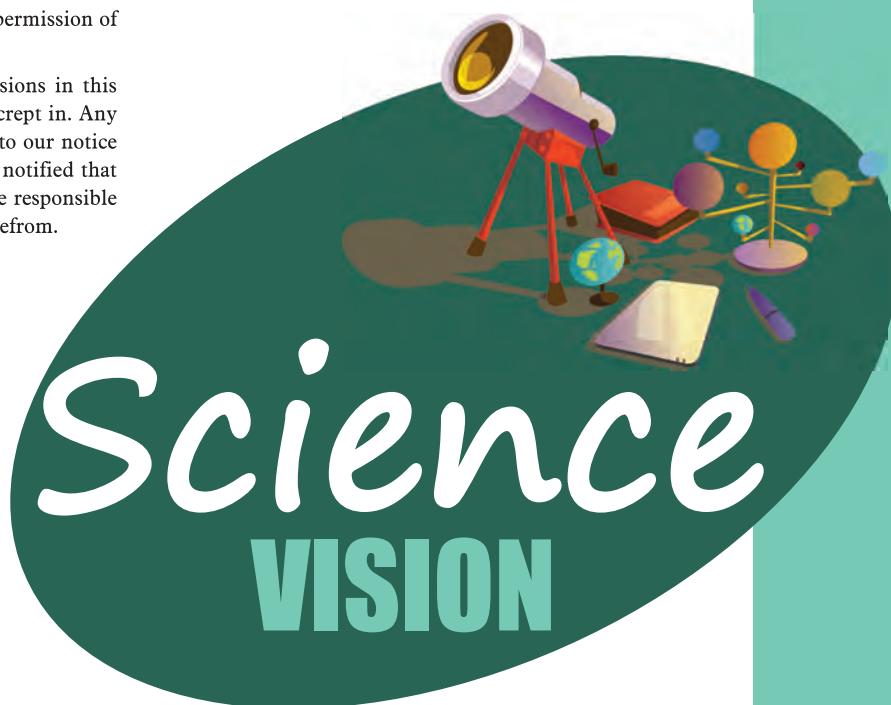
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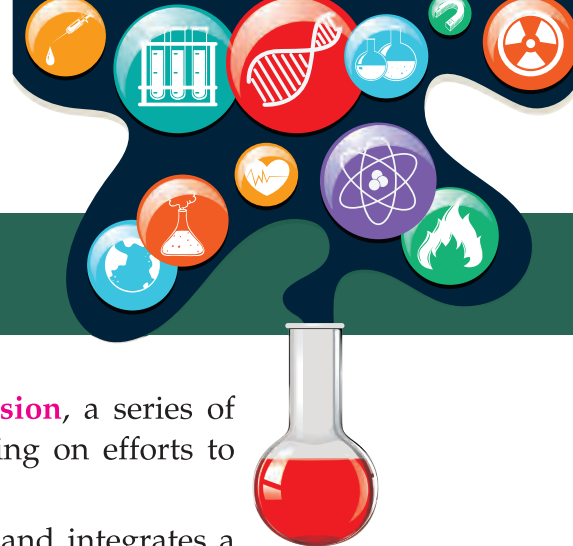
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Preface



Children have an innate curiosity to know and learn. **Science Vision**, a series of books on science from class 1 to 5, has been developed by focusing on efforts to activate this curiosity.

The series conforms to the National Curriculum Framework 2005 and integrates a multi-disciplinary approach. Efforts have been made to provide a solid footing in science to the students. Books 1 and 2 draw their attention to day-to-day occurrences and provide an all-encompassing knowledge of their immediate surroundings, so as to introduce them to the world of science. Book 3 to 5 move a grade further and provide to the students, a subtle yet measured amalgamation of various elements of different streams of science that await them in middle school. The books provide opportunities to the students for a spontaneous learning experience. The unique features of the series are as follows :

- ❖ **Focus On** contains the main objectives of the chapter.
- ❖ **Here We Go** provides warm up activities to students based on their knowledge, thinking and observation.
- ❖ 'Learning by Doing' activities under **Action Time** attempt to reinforce fundamental concepts taught in the lesson, while **Let's Recall** investigate the level of the knowledge mid-chapter.
- ❖ **Hotspot** targets learner's thinking and analysis skill.
- ❖ **Fact Byte** presents interesting bits of information while **Find Out** satiates the longing for knowledge.
- ❖ **Words to Know** makes clear the meanings of important scientific terms and concepts used in the chapter.
- ❖ **Have Some Fun** polishes information organising skills and better remembrance.
- ❖ **For the Teacher** is a nudge to the teacher to offer insights to the students about fundamental approach so as to underline the textual efforts.
- ❖ **A Step Ahead** gives information about milestones in technological discoveries.
- ❖ **Environment Friendly Steps** attracts attention towards the conservation of environment with the help of science.
- ❖ Clearly labelled and accurate diagrams help to explain scientific concepts.
- ❖ **Flash On** is a recap of the salient points taught in the lesson.
- ❖ Term-I and Term-II test papers are completely in tune with NCF guidelines.

Welcome to the world of perfect teaching and learning.

—The Publisher

Salient Features

Tools for Comprehensive Teaching and Learning.

These tools make the learning of science a lovely experience.

Soil

Focus On

- Soil
- Layers of Soil
- Soil Erosion and Soil Conservation
- Kinds of Soil

Teacher's Aid

- Collection of soil, sand and gravel

Here We Go...

Why is the soil important for us? Have you seen different layers of soil? Let us find out. Soil supports life. Topmost layer of earth's surface is formed by soil which has water, minerals and ... for life.

Fact Byte

- ✦ The process of weathering takes a lot of time to form a little layer of soil.

Focus On contains the main objectives of the chapter.

Teacher's Aid includes various teaching aids for the teacher.

Here We Go provides warm up activities to students based on their knowledge, thinking and observation.

Fact Byte presents interesting bits of information.

ACTION TIME 1

Objective : To observe presence of air in soil.

Things needed : A flower pot, water, some soil.

Procedure : Keep the soil into flower pot and pour some water o

Conclusion : Bubbles begin to form. It means soil has air. Air sp filled with water and bubbles appear.

Hands-on and lab activities under **Action Time** attempt to reinforce fundamental concepts taught in the lesson and encourage 'learning by doing' which inculcate a range of scientific skills.

HOTSPOT

- Who needs more carbohydrate :
 - a clerk
 - teen aged boy
- Who needs more p
 - An oldman of 80 yrs.

Hotspot quiz aims to grind thinking and analysis skills.

Let's Recall

Match the following
Column A

- For growth and good health

Let's Recall are the activities that stimulate the boosting up of the concept taught till the point.

For the Teacher

Encourage children to have a discussion

For the Teacher is a nudge to the teacher to offer insights to the students about fundamental approach so as to underline the textual efforts.

Find Out

What was the nutritional value of you

Find Out satiates the longing for knowledge.

A Step Ahead

It was 1747, the people who were on long sea voyages developed a painful, bleeding disorder scurvy. Dr. James Lind, a physician in the British Navy, discovered the cure for scurvy in the field of nutrition.

A Step Ahead focus on landmark scientific and technological discoveries and inventions.

Environment Friendly Steps

Environment friendly packaging of foods does not harm the environment.

Environment Friendly Steps pull attention towards the role of science in environment conservation.

Words to Know

Carbohydrates	: Energy giving food
Fats	: Nutrients necessary to keep
Proteins	: Body building food
Balanced diet	: Diet that contains all nutrients in
Preservation	: Process of storing food for later

Words to Know defines the meanings of important terms and concepts.

Flash On

- * Our body needs nutrients contained in food to grow.
- * Carbohydrates, fats, proteins, vitamins and minerals, roughage are essential for our body in right amount.
- * A balanced diet contains all the nutrients in right amounts.

Flash On is a recap of the salient points taught in the lesson.

Practice Time

G. Make teams and collect pictures of various foods that have nutrients essential for our body.

Make a chart of a normal human diet that shows the degree of necessity of each nutrient in our body. Paste pictures too.

H. Your turn :

1. Look for preserved food in your kitchen, canned food or some pickle, or food kept in the refrigerator. Ask your mother about :

Your Turn is an exclusive test of the knowledge gained by the learner.

TERM II

A. Unscramble the letters to name the following :

1. Daily eat SELGETABVE _____.
2. Give us some NUTR _____.
3. In _____, we use NOTOCT _____.
4. V _____.
5. V _____.

Interesting and exhausted worksheets for **Term-I** and **Term-II**.

Have Some Fun 2

Trees Name _____

Have Fun gives an entertaining experience that also pamper the sense of curiosity of the learner.

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