



SCIENCE



Written by :
Ritu Jain

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New Edition

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Preface

Today's children will spend their adult lives in a multitasking, multifaceted, technology driven, diverse vibrant world, and thus they must arrive equipped to do so effectively.

This new edition of 'Science' has been completely prepared in accordance with National Curriculum framework. The most important aim of this series is to develop scientific attitude in children rather than providing information.

To fulfill our aim, the books are produced in large format, in full colour with attractive illustrations to enhance visual appeal. We hope that our attempt has been successful and a small step towards imparting necessary quality education to our children. Change is a way of life and our endeavour is to continue to evolve the series into a better product. Suggestions and comments are encouraged.

—Publisher




WALKTHROUGH

ACTIVITY


Various activities given in between text to strengthen the knowledge of the concept learned by the student.

Activity


Plants need water
Take two potted plants. Water one of the plants daily. Do not water the other plant. What happens after a few days? The plant that was given water lives. The plant that did not get water dies.





SOURCES OF WATER
We get water in many ways. We get it from rivers, lakes and wells.



We can also get water from the ground by digging deep wells. Clean water is precious. It should not be wasted.



STORAGE OF WATER
Water can be stored in many ways. In cities it is stored in tanks. In villages people store it in wells, pots, buckets etc. We should drink clean water. Filtered and boiled water is clean and safe to drink.

TEST YOUR SELF

Questions based on the matter to strengthen the knowledge.

Animals need air, food and water to stay alive.
Plants need air, light, water and nutrients to stay alive.
All living things need food.

Test your Self

• Tick (✓) the things that need food:



Mountains



Bird flying



Tree

Living things can grow.

• Tick (✓) the things that grow:



Rat



Kite



Butterfly

Many living things have babies.

• Cross (X) the things that do not reproduce:



Shoes



Motorcycle



Cow

EXERCISE TIME

Objective and subjective questions included under various segments.

Homes of Animals
Animals also need homes to live in. A home protect them from heat, cold, rain and their enemies. Different animals make different kinds of homes.



A lion lives in a den.



A rabbit lives in a burrow.



A spider spins a web.

Do You Know?
Animals that give us milk are called milk animals.



An ant lives in an anthill.

Some Animals also live in man-made home.



A cow lives in a shed.



A bee lives in a beehive.



A rat lives in a hole.



A horse lives in a stable.



A dog lives in a kennel.



A bird lives in a nest.

EXERCISE TIME

A. Multiple choice questions (MCQs).
Tick (✓) the correct option:

- Leaves are _____ in colour.
a. green b. yellow c. white
- The stem of tree is called _____.
a. leaves b. trunk c. roots
- Watermelon is a _____.
a. creeper b. herb c. shrub
- Plants that grow and spread along the ground are called _____.
a. herbs b. creepers c. climbers

B. Tick (✓) the correct and cross (X) the incorrect ones:

- All plants grow tall and straight.
- Some plants are small.
- Grape-vine is a climber.
- Watermelon is a creeper.

C. Match the following:

1. A climber	a. Big and tall plants
2. Trees	b. Sunflower
3. A thorny plant	c. Money plant
4. A herb	d. Rose

D. Fill in the blanks with the given words:
cactus, climbers, shrubs, herbs

- Rose and Jasmine are _____.
- Tulsi and Sunflower are _____.
- Grape-vine and Money plant are _____.
- _____ is a thorny plant.

DO YOU KNOW?

Extra information to the concept related.

KNOW THE KEYWORDS


Detail meaning about some difficult words.

Test your Self

- All (living/ Non - living) things need sunlight for living.
- We can see the (sun/moon) in the night sky.

THE STARS

At night we see **stars** in the sky. The stars twinkle in a clear sky. The stars are differ in colour. Some stars are blue, white, red and yellow. The stars differ in brightness. There are innumerable stars. We cannot count them.



Know the Keywords :

Sun : A big hot ball of fire.
 Moon : Looks like a big white ball which can be seen in the night sky.
 Stars : The bright heavenly bodies that can be seen in the night sky.
 Heat and Light : Forms of energy.

Point to Remember

- We see the Sun only in the day time.
- The Moon shines at night.
- The Moon changes its shape every night.
- Stars are very big and bright.
- The Sun is a star.

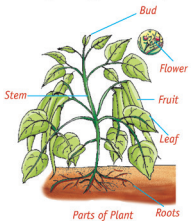
EXERCISE TIME

A. Multiple choice questions (MCQs).
 Tick (✓) the correct option :

- The sun is the hottest in the _____.
 a. morning b. afternoon c. evening

Parts of Plants

- Roots** : Roots suck water from the soil and give support to the plant.
- Stem** : It helps the plant to exact stand.
- Flowers** : These are the most beautiful part of a plant.
- Buds** : Flowers grow from buds.
- Leaves** : They prepare food for plants.
- Fruits** : Flowers change into fruit. Fruit contains seeds inside it. Seeds grow into new plants.




Know the Keywords :

Trees : Big, tall and strong plants.
 Shrubs : Plants smaller than trees.
 Herbs : Small and weak plants.
 Climbers : Weak plants that need support to remain erect and climb.
 Creepers : Weak plants that grow along the ground.

Point to Remember

- These are many kinds of plants around us.
- Some plants are big and some plants are small.
- Big and strong plants are called trees.
- Small but strong plants are called shrubs.
- Plants with soft stems are called herbs.
- Climbers and creepers are weak plants.
- Some plants have thorns.
- All plants have leaves.
- Leaves are of different sizes and shapes.



POINT TO REMEMBER

Consolidated concepts of the chapter.


ACTIVITY TIME

Various activities to strengthen the knowledge of the concepts learnt by the student.

4. Name the homes made by man for the following animals :
 a. Cow _____ b. dog _____ c. Horse _____

Activity Time

- Make a clay bird
- Take some clay.
- Make it into a shape of a bird.
- Collect different feathers.
- Stick the feathers you have collected.
- Let the bird dry in the sun.
- Colour your bird.



Put some food where birds can eat it. Give them different things on different days. Do they eat everything? Is there something they do not like?


Creative Work

- Collect pictures of various animals and paste them in your scrapbook/fair book. Write their names and places where they live.
- Collect the pictures of five grass-eating, flesh-eating and grain-eating animals and paste them in your scrapbook.

- What do you mean by natural things? Give examples.
- What do you mean by man-made things? Give examples.

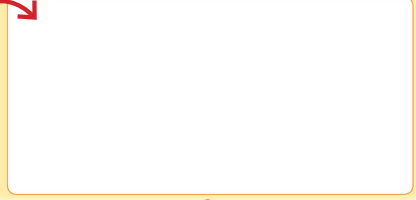
Activity Time

- Colour the circle blue if it is a living thing and red if it is a non-living thing.



Creative Work

- Draw a picture of a tree in the given box :



Some creative work to increase the creativity of the student.

CREATIVE WORK



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