

SAMPLE CONTENT



GENERAL SCIENCE WORKBOOK



STD. VI
(Eng. Med.)

Target Publications[®] Pvt. Ltd.

General Science

WORKBOOK

Std. VI (English Medium)

◆◆◆ Salient Features ◆◆◆

- A quick revision of theory at the beginning of every chapter
- Complete coverage of textual exercise questions
- Variety of additional Questions for thorough practice
- Oral Test in every chapter for knowledge testing
- Textual Activities/Projects that help in experiential learning
- Adequate space to for written practice

Name:

School:

Standard: **Division:** **Roll No.:**

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◆◆◆ PREFACE ◆◆◆

Target's General Science Workbook: Std. VI has been designed to cater to the objectives of 'Continuous Comprehensive Evaluation' (CCE) pattern. The selection of questions is such that it promotes active-learning and makes the process of recapitulation of concepts learned enjoyable and interesting.

Every chapter begins with '**Let's Revise**' section that offers a brisk overview of concepts in the form of pointers, memory maps, tables etc. The '**Summative Assessment**' that follows the overview includes questions based on the theory of each chapter.

It is segregated into four sections viz., '**Textual Exercise**', '**Intext Questions**', '**Let's Practise!**' and '**Oral Test**'.

'Textual Exercise' covers exercise questions serially. Questions belonging to textual sections such as '*Use your brain power*', '*can you tell?*', etc. and are vital from examination point are placed under section of 'Intext Questions'. To give students additional practice and boost their confidence, supplementary questions are incorporated in section 'Let's Practise!'.

'Oral Test' section comprises of thought stimulating short answer type questions that can be answered verbally.

The chapter is concluded by **Formative Assessment** which comprises of textual activities and project Work.

Open Ended Questions are marked in the chapter so that students can locate them with ease.

To get the best results out of our workbook, as soon as a chapter is taught in the school and revised by the student, he or she should write answers to the questions without referring to study material, by his or her own.

There is adequate space provided for writing the answers and the boxes are laid out to draw diagrams wherever applicable. This habit of completing workbook on timely manner will enable student to gauge his or her preparation and pave path for excelling in the examination.

The journey to create a complete book is strewn with triumphs, failures and near misses. If you think we've nearly missed something or want to applaud us for our triumphs, we'd love to hear from you.

Please write to us at: mail@targetpublications.org

A book affects eternity; one can never tell where its influence stops.

Best of luck to all the aspirants!

Publisher

Edition: Third

Disclaimer

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◆◆◆ KEY FEATURES ◆◆◆

Oral Test

Oral Test section includes questions that would stimulate the students to think and arrive at an answer based on their understanding of the concepts covered in the chapter



Open Ended Questions

Open Ended Questions indicates students get the freedom to answer the question (with the help of their observation) on their own. These questions are specially included since they aid to build the students observation skill and reasoning ability.



Variety of Questions

A variety of questions enables students to get better practice of the lessons and understand the concepts better.



CCE pattern

Latest CCE pattern followed in workbook, dividing the chapter into summative and formative section. This is a more child-centric approach and helps in better overall growth and development of students.

◆◆◆ Contents ◆◆◆

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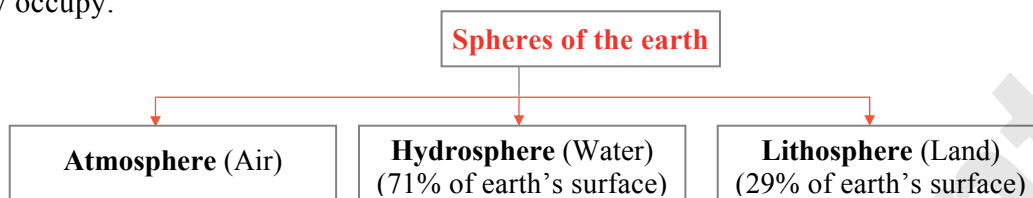
*Note: Textual Questions are represented by * mark.*

1. Natural Resources - Air, Water and Land

◆◆◆ Let's Revise ◆◆◆

➤ NATURAL RESOURCES

1. Air, water and land are the most important natural resources.
2. **Biosphere:** Living things and the parts of the lithosphere, hydrosphere and atmosphere which they occupy.



➤ AIR

1. Composition of atmosphere:

Nitrogen	Oxygen	Argon	Carbon dioxide	Other constituents of air
78%	21%	0.9%	0.03%	0.07%

2. Proportion of gases in different layers of earth:

Troposphere	Stratosphere	Mesosphere	Ionosphere	Exosphere
80% of the total mass of gases in the air	19% of the total mass of gases in the air	Proportion of gases is less	Proportion of gases is lesser	Lacks gases

3. Uses of gases in air:

Gas	Uses
Nitrogen	Helps to build necessary proteins in living things, useful in production of ammonia, used for air tight packaging of food items.
Oxygen	Essential for respiration and for burning (combustion).
Carbon dioxide	Photosynthesis in plants, major constituent of fire extinguishers.
Argon	Used in electric bulbs
Helium	Obtaining low temperature and for generating lift in airships
Neon	Used in street lights and decorative lights
Krypton	Component of fluorescent tubes
Xenon	Used in flash photography

4. Importance of atmosphere:

- (i) Acts as an important filter
 - (a) Allows light and heat to reach the earth's surface in quantities essential for life to sustain on earth.
 - (b) Protects the earth from ultraviolet radiations.
 - (ii) Maintains the temperature of the earth's surface.
5. **Air pollution:** Any undesirable change in the normal composition of the air caused by addition of harmful gases.
 6. **Air pollutants:** Nitrogen dioxide, carbon dioxide, carbon monoxide, sulphur dioxide and soot.



➤ **OZONE LAYER (O₃)**

1. It is located in the lower part of the stratosphere. It protects the Earth from the harmful UV rays of the sun.
2. Ozone protection day : 16th of September.

➤ **WATER**

1. It is colourless, odourless and tasteless. It is a universal solvent.
2. **Availability of water on earth:**

Water in seas and oceans	Ground water, frozen state (ice)	Fresh, drinking water
97%	2.7%	0.3%

3. **Water Cycle:** The water vapour formed from oceans is the main source of water in the water cycle. It gets converted into rain.

➤ **LAND**

1. **Land can be divided into the following layers:**

Layers in soil	Importance
Humus	Topmost and Most fertile layer. Formed by decomposition of plants and animals. Usually found in dense forests.
Top soil	Full of sand, soil, small stones, worms and insects.
Immature soil	Consists of soil and pieces of bedrock.
Bedrock	This layer has less of soil and more of rocks. Minerals are obtained from this layer. Bedrock determines colour and texture of the soil.

2. **Soil is composed of:**

Biotic components	Abiotic components
Plants, microbes, worms, etc	Rocks, small stones, sand, pebbles, etc

3. **The Process of soil formation:** “Weathering” of rocks brings about formation of stones, sand and soil particles.
4. **Fossil fuels:** Many years ago, Geographical upheavals led to burial of the trees and animals deep inside the land. After that, the process of formation of fossil fuels from the remains of living things took place underground.
We get petrol, diesel, kerosene, paraffin, tar and wax from fossil fuel which is called as crude oil.

◆◆◆ **Summative Assessment** ◆◆◆

Textbook Exercise

I. Fill in the blanks

- *1. The layer of ozone gas absorbs rays that come from the sun to the earth.
- *2. Of the total water available on the earth, fresh water forms percent.
- *3. Both and constituents are present in the soil.



II. Why is it said that – ?

***1. The ozone layer is a protective shell of the earth.**

Ans:

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***2. Water is life.**

Ans:

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***3. Seawater is useful even though it is not potable.**

Ans:

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III. What will happen if

***1. Microbes in the soil get destroyed.**

Ans:

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***2. The number of vehicles and factories in your surroundings increases.**

Ans:

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*3. The total supply of potable water is finished.

Ans: _____

IV. Match the following

*1. Match the natural resources from Group 'A' with the related descriptions given in Group 'B'.

	Group 'A'	Answers		Group 'B'
(i)	Carbon dioxide	_____	(a)	Generation of soil
(ii)	Oxygen	_____	(b)	Rain
(iii)	Water vapour	_____	(c)	Plants and food production
(iv)	Microbes	_____	(d)	Combustion

V. Name the following

- *1. Constituents of the biosphere: _____
- *2. Biotic constituents of soil: _____
- *3. Fossil fuel: _____
- *4. Inert gases in air: _____
- *5. Gases that are harmful to the ozone layer: _____

VI. True or false ?

Ans:

- *1. Land and soil are the same thing. _____
- *2. The water in a lake is called ground water. _____
- *3. It takes about 1000 years to form a 25 cm thick layer of soil. _____
- *4. Radon is used in decorative lights. _____



Intext Questions

I. Can you tell? (*Textbook page no. 2*)

1. What are the five layers of the atmosphere?

Ans:

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II. Use your brain power!

1. What would have happened if there was no air on the earth? (*Textbook page no. 3*)

Ans:

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2. What are the constituents of soil? Classify them as biotic and abiotic constituents?

(*Textbook page no. 7*)

Ans:

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Let's Practise!

I. Fill in the blanks

1. Gases are absent in layer of atmosphere.
2. In the atmosphere, lower part of contains the ozone gas.

II. Underline the correct word

1. Air becomes rarer / denser at higher altitudes.
2. The proportion of land on earth's surface is 29% / 71%.
3. The topmost layer of mature soil is bedrock / humus.
4. The surface of the earth that comprises water is the hydrosphere/ lithosphere.



III. Answer in one word

Ans:

- 1. Name the topmost fertile natural layer of the soil. -----
- 2. Identify the layer of land from which the main minerals are obtained. -----

IV. Give reasons

1. Atmosphere is an important filter.

Ans: -----

2. Humus is an important layer of the soil.

Ans: -----

Oral Test

- 1. Define natural resources.
- 2. Name the institute established for studying the weather in the Indian subcontinent.
- 3. Mention the harmful substances released in air during combustion of fuels.
- 4. Which gas absorbs the harmful ultraviolet rays coming from the sun?
- 5. What is the best remedy to prevent soil erosion?
- 6. Name the inert gas used in fluorescent tubes.

◆◆◆ Formative Assessment ◆◆◆

Activities / Project

- *1. Obtain detailed information about the work of the India Meteorological Department.
- *2. Find a remedy for water scarcity.

Teacher's Remark: Date:



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- English Balbharati
- मराठी सुलभभारती
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- History-Civics
- Geography
- General Science
- Mathematics

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- गणित

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