

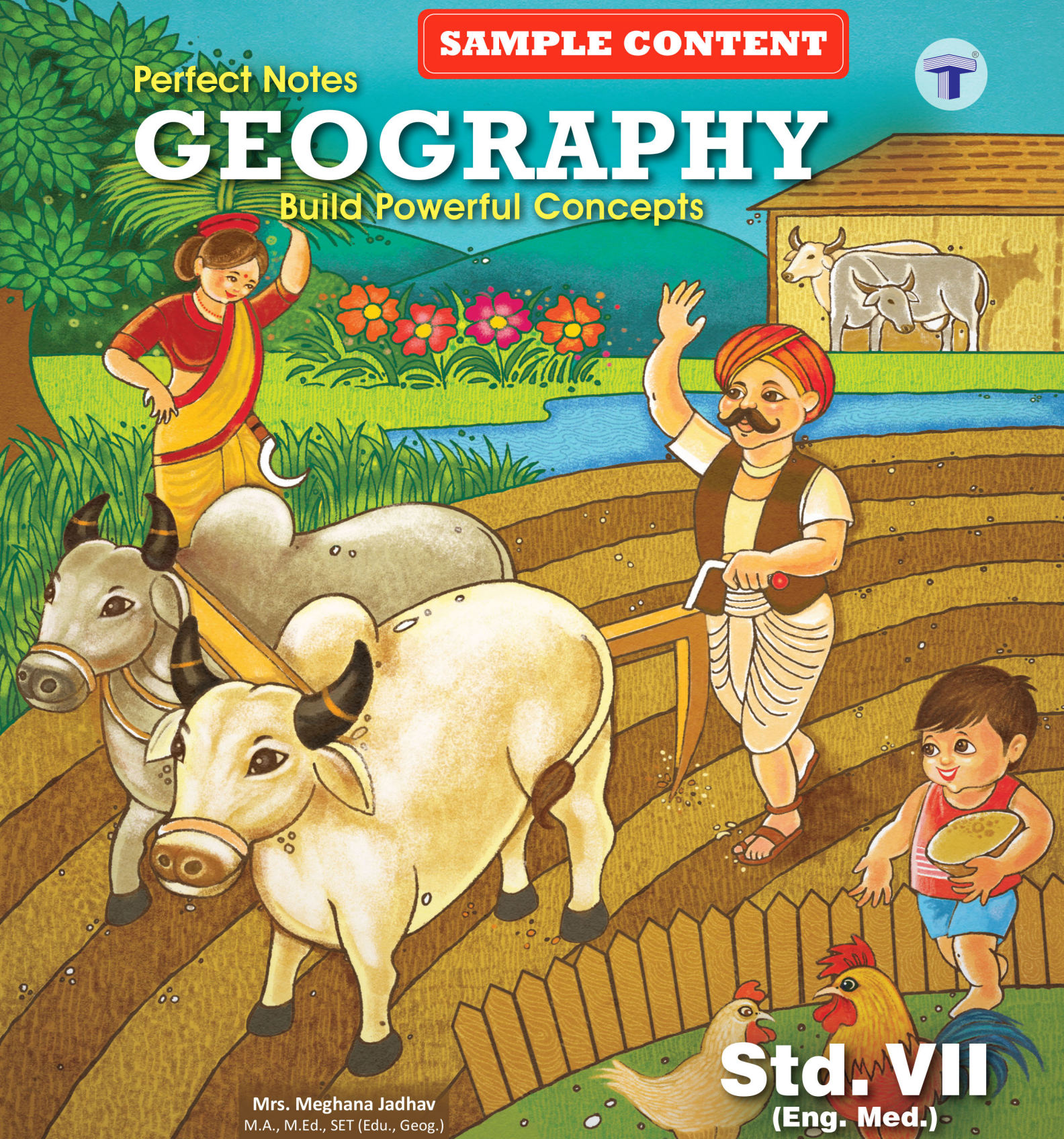
SAMPLE CONTENT



Perfect Notes

GEOGRAPHY

Build Powerful Concepts



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Std. VII
(Eng. Med.)

Target Publications® Pvt. Ltd.

PERFECT

Geography

Std. VII (English Medium)

Key Features:

- ☞ Helps to Build Powerful Concepts
- ☞ Concise Theory to revise important concepts in the chapters
- ☞ Variety of Questions to ensure complete chapter coverage
- ☞ Replete with Diagrams for better conceptual understanding
- ☞ Intext Questions to dig deeper into the concepts
- ☞ Chapter wise Assessment with Answer Key for knowledge testing
- ☞ Glossary for meaning of difficult terms

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PREFACE

Target's Perfect Geography: Std. VII has been prepared as per the new 'Continuous Comprehensive Evaluation' (CCE) pattern which is more child-centric and focuses on active learning. It makes the process of education more enjoyable and interesting. The goal of this book is to simplify the Text Book and break it into smaller chunks so as to make it easier for the students to comprehend the subject.

Every chapter in the book begins with **Point wise Theory (Let's study)** which gives the readers a better understanding of the chapter. It further covers the **Summative Assessment Section** which includes Questions and Answers based upon the chapters. The **Important words** in long answers are underlined so that students can remember these words and write answers in the exams. The questions which have more than one possible answer are marked as **Open Ended Question**.

The section that follows consists of **Formative Assessment**. It is divided into Apply Your Knowledge (intext questions), Oral Test and Activities/Project sections. The Oral Test section consists of questions to evaluate students' understanding of different concepts and information given in the chapter. In Apply Your Knowledge and Activities/Project section, we've provided answers to Questions wherever deemed necessary. However, students are expected to answer a few Activity based questions on their own so that they can dig deeper into the given topics. We have also marked questions which are suitable for **Oral Work**.

At the end of every chapter, we've included **Chapter Assessment** with Answer Key. It stands a testimony to the fact that the child has understood the chapter thoroughly. To provide general and understandable explanation of the difficult terms, **Glossary** is included at the end of the book. **Good to Know** is added to trigger the students' thought process.

We hope this book turns out to be more than a guiding angel for the students of Std. VII.

- Publisher
Edition: Third

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.

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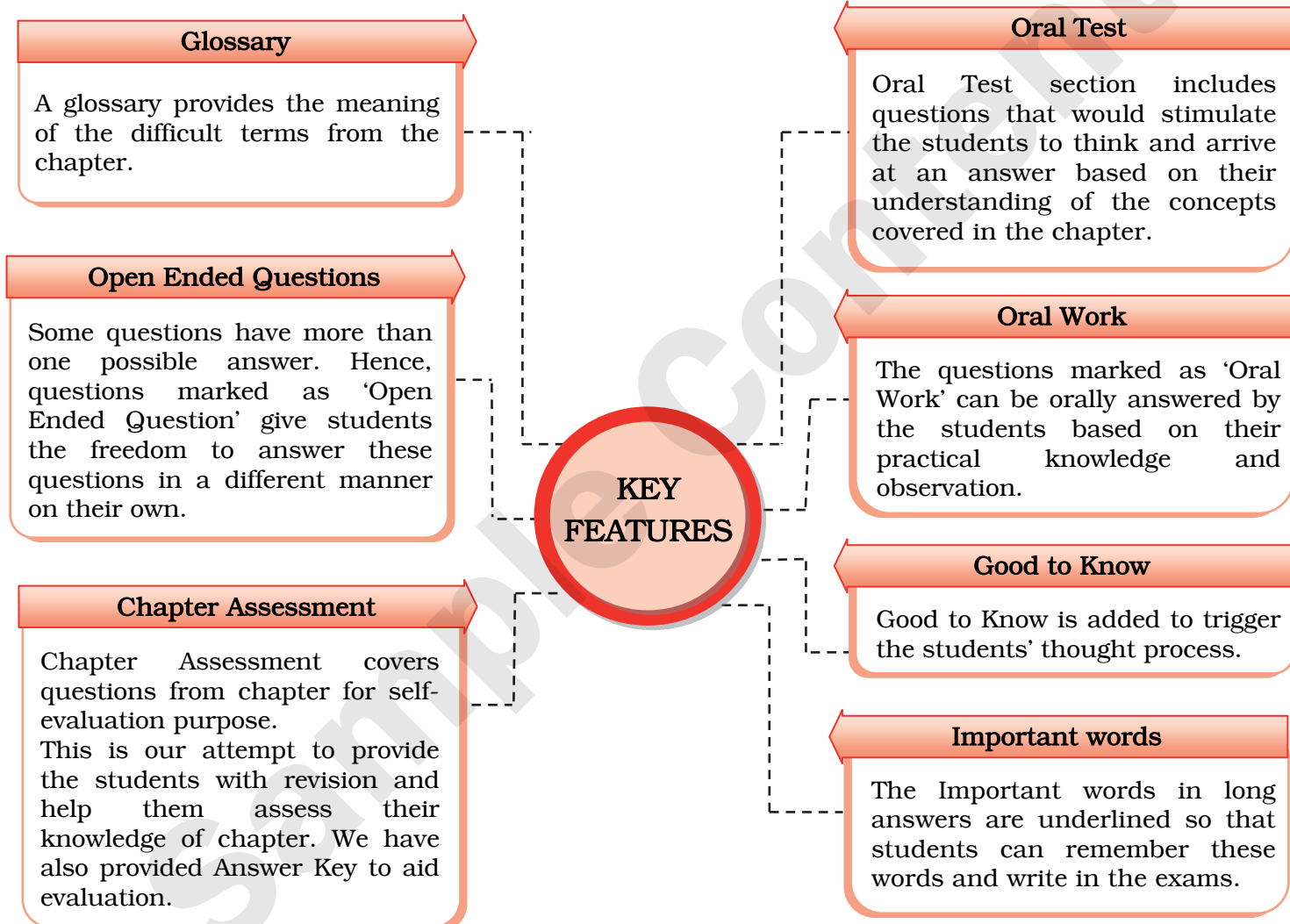
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Note: Textual Questions are represented by * mark.

© symbol after a word in theory indicates that the meaning of the word is provided in the glossary section.

1 How Seasons Occur - Part 1

Let's Study

1. **Reason for occurrence of day and night:** The earth's rotation around its own axis is responsible for the occurrence of day and night on the earth.
2. **Rotation of the earth:** The earth rotates from west to east and takes 24 hours to complete one rotation around itself. Its rotation has enabled us to measure time in terms of days.
3. **Stages during a day:** We experience different stages like sunrise, midday, sunset as well as daytime and nighttime during a day.
4. **Duration of day and night:** The duration of the daytime and nighttime varies on different days.
5. **Sunrise and sunset:** The time of the sunrise and the sunset as well as its location on the horizon[©] changes every day.

SUMMATIVE ASSESSMENT

Choose the correct alternative

1. The earth's enables us to measure time in terms of days.
(A) rotation (B) surface (C) mass (D) distance
2. We experience different stages like sunrise, midday, sunset as well as daytime and nighttime during a single
(A) year (B) day (C) month (D) hour

Answers:

1. (A)
2. (B)

Right or Wrong? If Wrong, write the correct sentence.

1. It takes 24 hours for the earth to rotate around itself.
Ans: **Right**
2. The earth rotates from east to west.
Ans: **Wrong** Correct sentence: The earth rotates from west to east.
3. The locations of the sunrise and sunset on the horizon keep on changing for the whole year.
Ans: **Right**

FORMATIVE ASSESSMENT

Apply Your Knowledge

1. **Let's recall. (Textbook page no. 1)**
 - (i) **How do day and night occur on the earth?**
Ans: (a) Day and night occur due to the earth's rotation. The earth rotates around its own axis while revolving around the sun.
(b) While rotating, a part of the earth which faces the sun receives sunlight. Due to presence of sunlight, day occurs on this part of the earth.



(c) On the other hand, a part which is away from the sun receives no light. Due to absence of sunlight (or presence of dark), night occurs on this part of the earth.

(ii) What term is used to describe the earth’s revolution around the sun?

Ans: The term ‘orbital motion’ is used to describe the earth’s revolution around the sun.

(iii) How long does the earth take to do so?

Ans: The time taken by earth to complete one revolution around the sun is one year i.e. 365 days and 6 hours.

[Note: Generally only 365 days are called as one year and the 6 hours are ignored for convenience. These 6 hours are added every year, over a span of four years to make a day. This day is included in the month of February every fourth year and the year is known as leap year.]

(iv) In which hemispheres is our country located?

Ans: Our country, India, is located in the northern and eastern hemispheres of the earth.

(v) Why don’t the sun’s rays fall perpendicular at all the places on the earth?

Ans: (a) The sun’s rays falling on the earth travel in straight line and are parallel to each other.

(b) However, the earth is spherical in shape. Due to this, the sun’s rays are perpendicular in parts of earth near the equator and start slanting as we go further away from the equator towards the north and the south poles.

Hence, the sun’s rays are not perpendicular at all the places on the earth.

2. Can you tell? (Textbook page no. 1)

Note the timings of sunrise and sunset in your area, for the following period by direct observation, or using calendars, newspapers or the internet. A specimen table has been given below. Record the entries for the month of June, find the answers to the following questions and discuss them.

Date	Sunrise	Sunset	Duration		Source of Information
			Day	Night	
19 th June					
20 th June					
21 st June					
22 nd June					
23 rd June					
24 th June					
25 th June					
26 th June					
27 th June					
28 th June					

(i) Among the records in the table which is the longest day?

(ii) What difference do you notice in the duration of the nights day by day?

(Students are expected to attempt the above questions based on their observations.)



(iii) **Guess the reason behind it.**

Ans: The duration of the day and night changes everyday due to the earth's inclined axis and its revolution around the sun.

(iv) **How did you find out the duration of the night?**

Ans: The time between the sunset and the following sunrise was recorded as the duration of the night. Alternatively, we can also subtract the duration of the day from 24 hours in order to get the duration of the night.

(v) **Which two dates had days and nights of the same duration?**

(Students are expected to attempt the above question based on their observations.)

(vi) **With the help of the table, you saw how the duration of the day and the night changes. Do you think such a change occurs everywhere on the earth?**

Ans: Yes, the change in the duration of the day and night occurs on all places of the earth. However, it is almost stable on the equator.

(vii) **Use the above format to record the duration of daytime from the 19th to 28th of every month from September to December.**

(Students are expected to attempt the above question based on their observations.)

3. **Try this. (Textbook page no. 2)**

(i) **Paste a large white paper on one side of the table.**

(ii) **Place a torch in front of the table in such a way that it wouldn't move.**

(iii) **Stand a rod or a candle between the white paper and the torch. See figure 1.1 (on pg. no. 2 of your textbook)**

(iv) **Direct the light beam of the torch in such a way that the shadow of the rod/ candle falls on the paper.**

(v) **Mark the position of the shadow on the paper.**

(vi) **Move the table along with the rod/ candle from one side to the other slowly.**

(vii) **Observe and mark the position of the shadow that falls on the paper.**

(viii) **Note the change in the location of the shadow.**

(Students are expected to attempt the above activity on their own.)

Observation: After performing the activity, it can be observed that as the table is moved from one side to the other, the position of the shadow shifts in the opposite direction.

4. **Try this. (Textbook page no. 2)**

(For teachers: This activity is to be conducted throughout the year. Start this within eight days after the school opens. Continue it till the end of December. Make observations once in a week at the time of sunrise or sunset as per your convenience)

(i) **Take a thick stick of about 1.5 to 1.7 m long.**

(ii) **Keeping some distance, fix the stick near a wall that receives sunlight at the time of sunrise or sunset throughout the year. (Remember that the stick has to be fixed at this spot for a period of about one year.)**

(iii) **After the observation, mark the position of the shadow for that date.**

(iv) **If the position of the shadow changes, measure and note the distance between the earlier and the changed position.**

(v) **During the period of this activity, observe the place of sunrise and the sunset on the horizon as well.**

(vi) **Study the duration of daytime and nighttime on the basis of observations from the table for the month of September.**



- (vii) What was the direction of the shadow of the stick in the month of September?
 (viii) On which day was the duration of the day and the night the same?

(Students are expected to attempt the above activity on their own. Students must answer the questions vi, vii and viii after the month of September)

5. Think about it. (Textbook page no. 2) (Oral Work)

If the position of the shadow on the wall moves towards the north, in which direction does the location of sunrise or sunset appear to shift?

Ans: If the position of the shadow on the wall moves towards the north, the location of the sunrise or sunset will appear to shift towards the south direction.

[Note: The second half of this lesson (i.e., Chapter 8) will be handled in the class around 22nd of December. Before that, students are expected to record the observations as explained in 'Apply Your Knowledge' section.]

Oral Test

1. What is rotation of the earth?

Ans: The earth's turning around its own axis is known as rotation of the earth.

2. What has enabled us to measure time in terms of days?

Ans: The earth's rotation has enabled us to measure time in terms of days.

3. Name the direction in which the sun rises and sets everyday.

Ans: Everyday the sun rises in the east and sets in the west.

CHAPTER ASSESSMENT

1. Fill in the blanks.

- (i) The earth takes hours to rotate around itself.
 (ii) During a single, we experience different stages sunrise, midday, sunset.
 (iii) The positions of the sunrise and the sunset on the keep on changing.

2. Answer the following.

- (i) Why do day and night occur on the earth?

Answers:

1. (i) 24 (ii) day (iii) horizon
 2. (i) Refer Q.1.(i) "Formative Assessment: Apply Your Knowledge".



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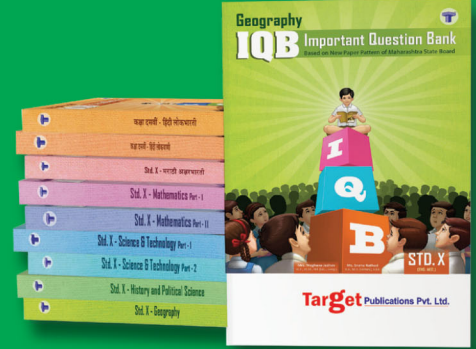
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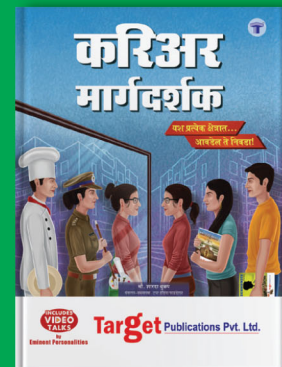
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