

Time and Calendar

SPECIFIC OBJECTIVES

The students will

- be able to read time on the clock to the nearest minute.
- understand the conversion of units like hours, minutes, seconds.
- know the time using a.m. and p.m.
- learn about 24-hour clock time.
- learn how to calculate period of time.
- know the longer duration of time in detail.
- learn to find out the number of days between the two given dates.
- be able to understand the railway time table.

CONTENTS EXPLAINED INSIDE THE CHAPTER

- Reading Time (pages 109–110)
- Conversion of Time (pages 110–112)
- Use of A.M. and P.M. (page 112)
- 24-Hour Clock Time (pages 112–114)
- Duration of Time (page 114)
- Operation of Time (pages 115–116)
- Other Measures of Time (pages 116–117)
- Numbers of Days Between Two Dates (pages 117–119)

TEACHING AIDS

A clock, digital clock, a calendar, railway time table, paper and a pencil

TEACHING STRATEGY

- First, the teacher should interact with the students to recall their understanding about clock. She should also discuss with them the change of duration of day and night seasonwise. Then she should ask them to do the 'Let Us Recall' exercise.

- Again, the teacher should explain to them how to read time in exact minutes. She should also develop their idea of conversion of units like hours to minutes, minutes to seconds and vice versa. For text and exercise, she should go to pages 109–112.
- Next, the teacher should talk with them about a.m. and p.m. Correlate it with 24-hour clock in details. She should go to pages 112–114 for text and exercise.
- Further, the teacher should explain them the term ‘duration’ used between two events and then extend their idea to measure the duration of time. She should also discuss with them how to add/subtract the period of time. For text and exercise, she should go to pages 114–116.
- Thereafter, the teacher should talk with them about days, months, years, etc., and leap year also. Also, she should encourage them to find the number of days between two dates in a calendar era. She should go to pages 116–119 for text and exercise.
- The teacher should explain them about application of 24-hour clock timings by giving the example of railway time table. Then, she should motivate them to complete the task along with life skills.
- Students should complete their project work with joy and fun. The teacher should assist them in making toy clock.

EXPECTED LEARNING OUTCOMES

Students are able to

- read the time on clock correctly.
- convert the time from one unit to another unit.
- use a.m. and p.m. to express the 12-hour clock time.
- read and understand 24-hour clock time.
- find out the duration of time.
- add/subtract the given time periods.
- know the number of days between two dates.
- recognise the leap year.
- understand the railway time table.

After completing chapter 4, the teacher may use the material of Periodic Test-3 to evaluate the students’ understanding.