CHAPTER: Tick Tick Tick

Grade: **4**
Board: **CBSE**
Book: **NCERT**

1.

Chapter Summary and Placement

<Read through the following to understand how this chapter is connected with the previous and next grades and also the important concepts covered in it.>

1. This chapter encourages students to read calendar and clock in various formats.

2. Knowledge of this chapter will help students to write time in 12 hours and 24 hours format and solve problems related to time

2.

LEARNING OUTCOMES

<On completion of the chapter, students will be able to:>

1. Read clock time to the nearest hours and minutes
2. Estimate the duration of familiar events using Timeline
3. Compute the number of days between two dates
4. Express time, using the terms, ‘a.m.’ and ‘p.m.’

3. TEACHING PLAN

Follow this section for getting ideas on teaching the content covered in the chapter. The subtopic given in the first column with the matching learning outcome can be explained using instructions and resources listed subsequently

Subtopic and Learning Objective #1

Subtopic:
What is the time?

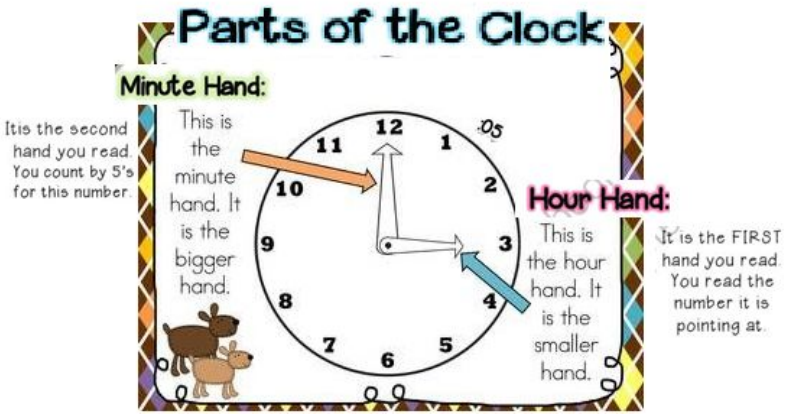
LO:
Read clock time to the nearest hours and minutes

1. To make the student read clock time.

Teacher Activity

Read aloud the conversation between Pamposh and Shazia given on page 35.

1. Discuss the word problems given and help the students find the answers.
2. Explain the clock and how to read time:



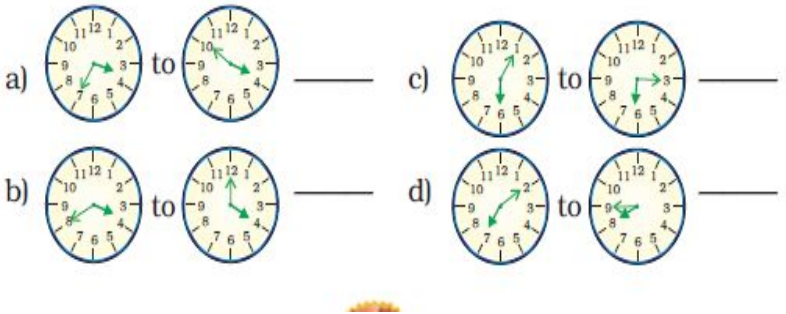
Teacher Activity

1. Show a clock and ask:
   a) The minute hand started from '5'. How many minutes will it take to come back to '5' again?
   b) What happens to the hour hand? Does it also move? How long will it take to move from one number to the next? Discuss

2. Ask the students
   - At what time does the sun rise?
   - What time does the sun set?
   - Do the sun rise and set at the same times every day?
   - Ask them to check old newspapers to see if the time of sunrise and sunset change in different months

Check for understanding:

How long will it take the minute hand to move from:



Resources Suggested

Pencil and paper

Activity 1

Name of the activity- How long is minute?
Type of activity – Group
Use it for – Making the students understand value of time
Materials – A stop watch
Procedure:
Instructions to the teacher

1. Take the class to the ground.
2. Divide the class into groups of 4.
3. Each group will be given a challenge to perform
4. The challenges can be:

In one minute, how many times can you —
a) Snap your finger
b) Skip a rope
c) Jump up and down
d) Clap your hands

Activity 1

e) Say “achoo”
f) Sit and stand

How long can you —
a) Speak non-stop
b) Stand on one leg
c) Sing 'Aaaaa....' without a break
d) Jump in one spot
e) Stare without blinking

How long do you take to -
a) Run a 50 metre race
b) Collect 50 pebbles from the ground
c) Count 1 to 100
d) Recite tables from 1 to 10
e) 30 star jumps

(the students can add more activities to the list)

1. You can make this competitive by giving each group a different activity
2. The winners of the group are again divide into pairs and given another list of activities
3. The winners of second round are then made to stand in a circle and given 5 activities
4. The one who wins maximum number of times will be the “Time champion”

Subtopic and Learning Objective #2

Sub topic: Timeline

LO:
Estimate the duration of familiar events using Timeline

1. To make student understand and draw a Timeline

Teacher Activity

1. Ask the students to list out pointwise what they have done since they woke up this morning.
2. Ask them to add the time to each activity.
3. Now read the “Rani’s Diary” on page 42-43
4. Discuss the problems given and help the students find the answers.
5. Now ask the students to make a timeline of what they had done since morning as discussed earlier.

6. Explain that

Timelines help to visualize events during a specific amount/period of time shown in proper order along a line.

Activity 1 can be performed to make class understand about timelines.

Check for understanding:

Mark the given pictures in the correct sequence showing how to wash hands:



Resources Suggested

Blackboard , chalk ,Pencil and paper

Activity 2

Name of the activity- My Story
Type of activity – Individual
Use it for – recording events in chronological order
Materials – Pen and paper

Procedure:
Instructions to the teacher:

1. Ask the students to take help from family and friends and make a list of 12 important events in their life starting from their birth till now.
2. Ask the students to create a timeline and mark the events from the list on to the timeline.
3. Display the timelines in the class.
4. Have a discussion on the similarities and variations in the timelines.

Subtopic and Learning Objective #3

Sub topic: How many days?

LO:
Compute the number of days between two dates

Teacher Activity

1. Read aloud the letters on page 46 under “Holidays are fun”
2. Explain the DD/MM/YY way of writing dates.
3. Explain by examples

4. Discuss the problems given and help the students find the answers.
5. What month and year is written as 04/17?
6. Discuss manufacturing and expiry dates written on products.
7. Ask them that if the shampoo bottle has manufacturing date of 04/17 and expiry date as 07/20, how many years can the bottle be used for?
8. Will it be safe to use on 08/06/19?

Check for understanding:

Which long holidays do you get in school? Fill the table.

Occasion	*Dates*		*Number of days*
	From	*To*	
Summer holidays			
Autumn break			
Winter break			
Holidays after the exam			

Resources Suggested

Blackboard , chalk ,Pencil and paper

Subtopic and Learning Objective #4

Sub topic: 12-hour clock and 24-hour clock

LO:
Express time, using the terms, ‘a.m.’ and ‘p.m.’

1. To make the student write time in 12 hours and 24 hours

Teacher Activity

1. Read aloud the story “Tutun missed the train” on page 49
2. Discuss the problems given and help the students find the answers.
3. Explain ‘am’ and ‘pm’ and the 24-hour format of writing time.

Check for understanding:

Time by your watch (12-hour clock)	*Time by a 24-hour clock*	*Time using am and pm*
1 o' clock in the afternoon	13:00 hours	
2 o' clock in the afternoon	14:00 hours	
3 o' clock in the afternoon	_____	
3:30 in the afternoon	15:30 hours	
6 o' clock in the evening	_____	
9 o' clock in the evening	_____	
12 o' clock at midnight	_____	

Resources Suggested

Blackboard , chalk ,Pencil and paper

4. WORKSHEETS

Print or copy the worksheet questions on the blackboard and ask the students to attempt them. They can be given as homework or a class test as well.

Worksheet 1

Use it like: test after the chapter is complete, homework

Write the activities given below in the table as per the time taken to complete them:

To bake a cake to boil milk to stitch a skirt

to set curd an office day to knit a scarf

to weave a sari for a mango to become ripe to blink my eyes

to gulp my medicine to grow wheat (from seed to big plant) to wash your hands

for school assembly to change from winter to summer for your next birthday

to blow a candle to make tea to start a car

Takes seconds	Takes minutes	Takes hours	Takes days	Takes weeks	Takes months

Worksheet 2

Use it like: test after the chapter is complete, homework

Read the calendar and answer the questions given below:



Holidays	
15 Jan	Pongal
16 Jan	Guru Govind Singh Jayanti
26 Jan	Republic Day
7 Mar	Maha Shivaratri
23 Mar	Holika Dahana
25 Mar	Good Friday
14 Apr	Ambedakar Jayanti
15 Apr	Rama Navami
20 Apr	Mahavir Jayanti
1 May	May Day
21 May	Buddha Purnima/Vesak
8 Jul	Ramzan Id/Eid-ul-Fitar

The above is the list of holidays in the year 2016

Write the dates in DD/MM/YY format

Write the day after each holiday in number format

How many days after Republic day will May day come?

Which two holidays have a longer gap – Pongal and Republic day or Maha Shivratri and Good Friday?

Worksheet 3

Use it like: classwork, homework, test

Read the The Three Little Pigs story and number the pictures in the proper sequence. Add your own dates and make a timeline of the story.

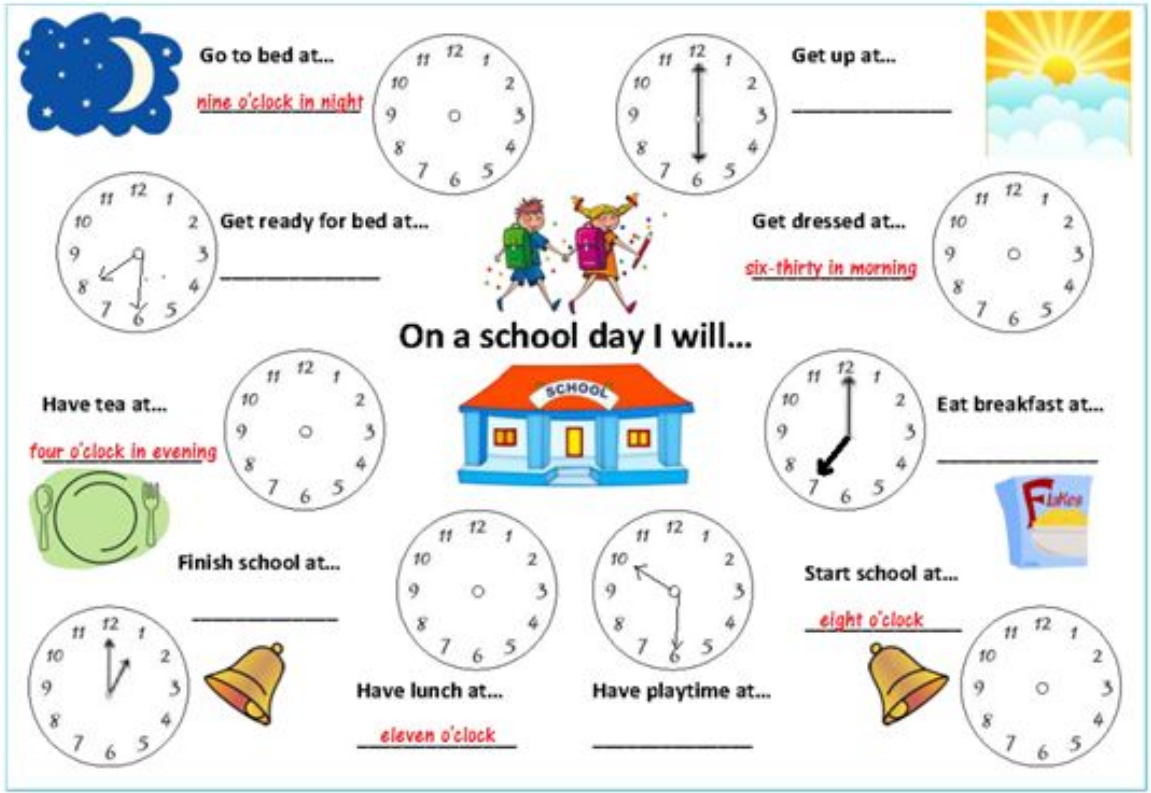


Worksheet 4

Use it like: classwork, homework, test

Write down the time for each picture. For some pictures the time is already written and you must draw the hands on the clock. In others you have to write the time shown by the clock.

Worksheet 4


Go to bed at...
nine o'clock in night
Get up at...
Get ready for bed at...
Get dressed at...
six-thirty in morning
On a school day I will...
SCHOOL
Have tea at...
four o'clock in evening
Eat breakfast at...
Finish school at...
Start school at...
eight o'clock
Have lunch at...
eleven o'clock
Have playtime at...

5. SOLUTIONS

This section gives you sample answers for activities and questions listed above.

Worksheet 1

Takes seconds	Takes minutes	Takes hours	Takes days	Takes weeks	Takes months
to gulp my medicine	To bake a cake	to set curd	to weave a sari	for a mango to become ripe	to grow wheat (from seed to big plant)
to blow a candle	for school assembly	an office day	to knit a scarf		to change from winter to summer
to wash your hands	to boil milk	to stitch a skirt			for your next birthday
to blink my eyes	to make tea				
to start a car					

Worksheet 2

Write the dates in DD/MM/YY format

15/01/16

16/01/16

26/01/16

07/03/16

23/03/16

14/04/16

15/04/16

20/04/16

01/05/16

21/05/16

08/07/16

Worksheet 2

Write the day after each holiday in number format

16 Jan 2016

17 Jan 2016

27 Jan 2016

08 Mar 2016

24 Mar 2016

15 Apr 2016

16 Apr 2016

21 Apr 2016

02 May 2016

22 May 2016

09 July 2016

How many days after Republic day will May day come? **95 days**

Which two holidays have a longer gap – Pongal and Republic day or Maha Shivratri and Good Friday?
Maha Shivratri and Good Friday

Worksheet 3



pigs went out

first pig built straw house

second pig built stick house

third pig built brick house

wolf blew down straw house

first pig ran to his brother's house

wolf blew down stick house

the two pigs ran to their brother's house

wolf tried to blow down brick house

wolf climbed down the brick house chimney

wolf fell into pot of hot water

wolf ran back into woods

Worksheet 4


On a school day I will...
Go to bed at...
nine o'clock in night
Get up at...
six o'clock in morning
Get ready for bed at...
seven-thirty at night
Get dressed at...
six-thirty in mornin
Have tea at...
four o'clock in evening
seven o'clock in morning
Finish school at...
one o'clock in afternoon
Start school at...
eight o'clock
Have lunch at...
eleven o'clock
Have playtime at...
ten-thirty in morning
SCHOOL

6. EXTRA RESOURCES

Carry out the following suggested activities/ tasks if you have the time and resources to do them

Teacher can use these videos if time and facilities permit:

1. https://www.youtube.com/watch?v=CzD_sdv2gIc — 12 hours and 24 hours clock
2. https://www.youtube.com/watch?v=QlhY9yQCI98 — How to say the date?