Holiday Home Work

Class: IX

(The summer holiday homework is also available on school website ie. www.oiis.in)

To be ready for tomorrow's opportunities, do your homework today. Learn, refine your skills and focus on your growth.

Dear Students,

Summer has arrived and brought with it you're amazing and fun-filled holidays. Summer break is a well-deserved opportunity to relax and unwind by indulging in various activities. Your Holiday Homework has been specially designed for you to be creative, innovative and imaginative while completing your tasks. It will also enable you to recapitulate what was taught in the classrooms. We hope you will play, learn, research, analyze, experiment, imagine, think, value, appreciate and above all enjoy during your holidays.

Wishing you happy holidays!

Instructions for the students:

➢ Do your holiday homework in a notebook / file folder.
➢ Mention date and day when you do your work.
➢ Use your creativity and imagination wherever required,
➢ The last date of submitting the holiday homework after three days of school re-opens.

Subject: Mathematics

1. Practice the work done in Mathematics notebook for PT 1
2. Write and learn table 2 to 30.
3. Classify the following as rational or irrational numbers;
   $\sqrt{2}$, 1.5, 0.333…, $\sqrt{49}$, π, $-\dfrac{3}{4}$
4. Write five rational numbers between;
   1. 1 and 2
   2. 3 and 4
5. Represent $\sqrt{3}$ and $\sqrt{5}$ on the number line using geometrical construction. (using and scale)
6. Write the decimal expansions of;
   1. $\dfrac{1}{8}$
   2. $\dfrac{22}{7}$
   3. $\dfrac{1}{3}$

And state whether the decimals are terminating or non-terminating.

7. Without actual division, state whether the decimal representation of the following will terminate or not;
   1. $\dfrac{7}{20}$
   2. $\dfrac{22}{90}$
   3. $\dfrac{15}{16}$
   4. $\dfrac{4}{11}$
8. True or False (with reason)
   1. $\sqrt{2}$ is a rational number.
   2. Every real number is either rational or irrational.
   3. The product of two irrational numbers is always irrational.
9. Express the following as a rational number in $\dfrac{p}{q}$
   1. 0.666…
   2. 1.272727…
   3. 0.818181…

Subject: Social Science

4. Subject	Topics Covered	Tasks/Activities
History	The French Revolution	- Create a timeline of major events (1789–1799) with dates & descriptions - Draw and explain the political symbols used during the revolution - Write a paragraph: 'Why is the French Revolution called the Dawn of Democracy?'
Geography	India – Size and Location	- Map Work: Mark India's latitudinal and longitudinal extent, Tropic of Cancer, neighboring countries - Project: Importance of India's location and strategic position in the world (1–2 pages)
Geography	Physical Features of India	- Draw and label India's major physical divisions on the map - Explain features of the Himalayas, Northern Plains, Peninsular Plateau, Coastal Plains, and Islands (in a chart format)
Political Science	What is Democracy? Why Democracy?	- Define democracy with features - Make a poster on 'Why Democracy is the Best Form of Government' - Compare democratic and non-democratic countries (any 2 examples) in a table format

Submission Date: July 6, 2025

Note: Neatness, originality, and creativity will be rewarded. Best work will be displayed on the walls of your class.

1. Subject: Physics

Chapter: Motion

- Write definitions of the following with examples:
    - Distance & Displacement
    - Speed & Velocity
    - Acceleration
- Derive the three equations of motion.
- Solve **any five numerical problems** each from:
    - Uniform motion
    - Accelerated motion
- Make a table differentiating between **scalar and vector quantities** with at least 5 examples.

2. Activity-Based Task

Activity 1: Speed Tracker

- Observe the speed of different vehicles (car, bike, cycle) on a road using a stopwatch and estimate speed by measuring the distance they travel.
- Record the observations in a table:
Vehicle	Distance Travelled (m)	Time Taken (s)	Estimated Speed (m/s)

OR

Activity 2: DIY Simple Pendulum

- Make a simple pendulum using thread and a small ball.
- Measure the time taken for 20 oscillations.
- Find the time period and length of the pendulum.
- Note how length affects the time period (use at least 3 different lengths).

3. Model Making

1.Distance-Time Graph Model

Create a distance-time graph using coloured chart paper, straws, and movable objects to show uniform and non-uniform motion.

Subject: Chemistry

1. Model Making: Make a 3D model of States of Matter showing solid, liquid, and gas particles using clay or thermcol balls.

2. Represent the process of interconversion of states of matter on chart paper3. Write the differentiate between homogeneous and heterogeneous mixture on chart paper with the help of diagram.

4. Write the properties of Solution, Suspension and Colloidal Solutions on chart paper.

5. To read learn and revise chapter 1

6. To read Chapter 2

Subject: Biology

1. Modal Making

Make 3D modal of plant cell and animal cell (using clay paper cardboard etc.)

3. Write short note of the following topics.

A) Discovery of cell

B) Contribution of Robert Hooke in cytology

C) Mitochondria

4. Revise the following topics.

1. Difference between plant cell and animal cell.

2. Which cell organelle is known as power house of the cell? Why?

3. What would happen if the Golgi apparatus removed from a cell?

हिंदी

पाठ्यपुस्तक आधारित कार्य (हिहतज / कृहतका):

पाठ का सार लेखन: कम से कम 4 अध्यायों का सारांश 100-150 शब्दों में लिखें। पाठ

से प्रश्न उत्तर: प्रत्येक अध्याय के अंत में दिए गए प्रश्नों के उत्तर अभ्यास करें।

चिनात्मक लेखन:

उपसर्ग और प्रत्यय की परिभाषा देते हुए 10-10 उदाहरण मूल शब्दों को अलग करके लिखो।

अनुच्छेद लेखन :

1-मेरे सपनों का भारत

2-मोबाइल का बढ़ता प्रभाव

3-पर्यावरण संरक्षण की आवश्यकता

पत्र लेखन:

1-अपने मित्र को गर्मी की छुट्टियों की योजना बताते हुए पत्र लिखें।

2-स्कूल प्राचार्य को पुस्तकालय में नई किताबें जोड़ने के लिए पत्र लिखें।

परियोजना कार्य:

पोस्टर बनाना: "स्वच्छ भारत अभियान" या "बेटी बचाओ, बेटी पढ़ाओ" पर एक आकर्षक पोस्टर बनाइए और नारा लिखिए।

Subject: A.I.

Sr.No.	Chapter's Name	Chapter No.	Activities
1	Peripheral Devices Basic Computers Skill	9 10	Reading chapter, Fill in the blanks, True C False, Answer the Following Questions.
2	Types of Business Activities Characteristics of Entrepreneurship	11 12	Reading the Chapter, Fill in the blanks MCQ, Answer the following questions.
3	Environment Protection and Conservation	13	Reading Chapter, MCQ, Answer the following questions
4	Importance of Green Economy	14	Reading Chapter, MCQ, Answer the Following Questions C Fill in the Blanks

SUBJECT - ENGLISH LANGUAGE AND LITERATURE-184

A.READING:

1. Read LESSON 2and 3 (ADVENTURES OF TOTO & ISWARAN THE STORYTELLER) Of MOMENTS book

2. Read a novel of your choice.

3. Recite and learn two poems- The Road Not Taken and WIND of BEEHIVE Book.

B. WRITING:

1. Summarize the poems you read above in your own words, find out the poetic devices used in the poem.

2. Write the Answers to the questions given in ADVENTURES OF TOTO in your notebook.

3. Prepare a note of 5 HEADLINES (only positive news) from any ENGLISH NEWSPAPER for 15 days and write the new words with their meanings and make 1 sentence from each word.

4. Prepare a TENSE CHART with proper sentence structure and examples.

5. Write a diary entry about a memorable experience from your summer vacation and the new things you tried or learnt recently

C. LISTENING:

1.Listen to the English news channels daily for preparing HEADLINES asked above.

D.SPEAKING:

Prepare a speech on "My Vision For India