

HOPE HALL FOUNDATION SCHOOL
HOLIDAY HOMEWORK (2026-27)
CLASS-XI SCIENCE

ENGLISH

MODEL WORK

Topic: Advertisement Model

- Make a creative model/chart showing:
 - Display Advertisement
 - Classified Advertisement
- Add 1–2 examples of each type
- Use catchy slogans, designs, and proper format
- Keep it neat, colourful, and well-labelled

Students must be ready to present and explain their model clearly and confidently in class

PROJECT WORK (A3 SHEET)

Poster Making (Any ONE Topic)

- Save Environment
- Clean India
- Health & Fitness
- Digital Safety

Instructions:

- Use creative drawings, colours, and slogans
- Keep the message clear, attractive, and meaningful

WRITING WORK

Notice Writing

You are the Head Boy/Head Girl of your school. Write a notice informing students about the celebration of Annual Day. Include date, time, venue, and participation details.

Debate Writing

Topic: “Social Media: Boon or Bane”

- Write 150–200 words
- Include arguments for or against the topic
- Follow proper format

CHEMISTRY

1. Separation Techniques Model

Demonstrate:

- Filtration
- Chromatography

2. Periodic Table Trend Model

Creative idea:

- 3D periodic table showing trends:
 - - Atomic size
 - Electronegativity
 - Ionization energy



Use colors/arrows to represent trends.

3. Hybridization Model

Show:

- sp (linear)
- sp² (trigonal planar)

- sp^3 (tetrahedral)



Use sticks at correct angles (important for scoring well).

4. Atomic Structure (Bohr / Quantum Model)

A 3D model showing:

- Nucleus (protons + neutrons)
- Electron shells (K, L, M...)
- Energy levels



You can even make a **rotating model** using wires or rings.

5. Orbital Shapes Model

Show different orbitals:

- s (sphere)
- p (dumbbell)
- d (complex shapes)



Use balloons, clay, or thermocol to represent shapes clearly.

PHYSICS

Chapters: Units and Dimensions & Motion in a Straight Line

Instructions:

- Answer all the questions neatly in a separate project file.
- Draw diagrams wherever necessary.
- Use coloured pens/pencils for headings and graphs.
- Write formulas with proper units.
- Submission should be handwritten.

Q1. Measurement Around Us

Make a table of any **20 physical quantities** used in daily life.

Write for each:

- SI Unit
- Symbol of the unit
- Type of quantity (Fundamental/Derived)

Example: Length – metre (m) – Fundamental Quantity

Q2. Dimensional Formula Activity

Find the **dimensional formulas** of the following quantities:

1. Force
2. Pressure
3. Energy
4. Velocity
5. Power

Also write one use of dimensional analysis.

Q3. Speed and Motion Survey

Observe the motion of any **3 moving objects** around you (car, bicycle, fan, train, etc.).

Prepare a report including:

- Type of motion
- Approximate speed
- Distance travelled in a given time
- Which object is moving with uniform motion and why?

Q4. Graph-Based Project

Draw a neat **Distance-Time Graph** and **Velocity-Time Graph** for a body moving in a straight line with uniform velocity. Write:

- What the slope of each graph represents
- Two differences between the graphs

Q5. Real-Life Numerical Application

A car starts from rest and moves with a uniform acceleration of 2 m/s^2 for 10 seconds. Find:

1. Final velocity
2. Distance travelled

Also explain where such motion is seen in real life.

BIOLOGY

1. Construct a working 3 D model of:

- A. Respiratory system
 - B. Dialysis machine
 - C. Human nephron
 - D. Human heart
 - E. Reflex action pathway in human
- (Do any one)

2. Revise your syllabus for UT exam

COMPUTER SCIENCE

Q1. Create one Chart/ A3 sheets on the basis of following topic:-

- a) Uses of Computer
- b) Computer System Architecture

Q2 Make a **chart or 3D model** showing a flowchart for:

- Student result system (Pass/Fail)
 - ATM withdrawal process
 - Online food ordering
- Include:
- Proper symbols (oval, rectangle, diamond)
 - Logical steps

PHYSICAL EDUCATION

Q1 Write notes on the following:-

- a) Career in book writing industry
- b) Career in sports photography
- c) Career in sports
- d) Career in marketing
- e) Career in coaching

Q2 Make a labeled diagram on any individual game and write its rules (On chart paper).

Q3 Prepare a chart on IPL (Indian Premier League) 2026

MATHEMATICS

Venn Diagram Art

Instructions:

- Use colored paper, chart paper, or digital tools to create Venn diagrams showing:
 - Union
 - Intersection
 - Difference
 - Complement

Real-Life Scenario Modeling

Instructions:

- Choose a topic: e.g., Students who like Math, Science, or both.
- Collect real or hypothetical data of at least 10–15 students.

- Represent the data using a **three-set Venn diagram**.
- Write a short analysis of your results (who likes what, overlaps, etc.).

Set Theory Collage/Poster

Instructions:

- Create a creative **poster or digital collage** showing:
 - Types of sets
 - Set notations
 - Symbols (\cup , \cap , \subset , \emptyset , etc.)
 - Fun facts about sets
- Use drawings, printed pictures, or magazine cutouts.

PSYCHOLOGY

Q1) Prepare project file on the Impact of Meaningfulness of studying material on Learning

Q2) Prepare project file on Span of Attention

Q1. Write about any of these 3 psychologists in detail and about their contribution in the field of psychology.

- Carl Roger
- Sigmund Freund
- James Watson
- Abraham Maslow
- Ivan Pavlov

Q2. **AI has the potential to revolutionize the science, practice and education of psychology.** Read a research paper on artificial intelligence and psychology and explain the given statement.

Q3. Make a poster on “**Mental Health**”.

Q4. Research about different fields of psychology and it’s scope in future.

PAINTING:

1. Draw and paint a composition (At least one human figure) on A2 size sheet.
2. Draw and paint a Landscape on A2 size sheet.

ECONOMICS

Q1 “The Government and the policy makers use statistical data to formulate suitable policies of economic development”. Illustrate with two examples.

Q2 Prepare a project on any one topic:-

- (1) Role of RBI
- (2) India's population growth rate
- (3) Globalization

- Note**
1. Write a story on prevention of drugs among students.
 2. Take pledge against taking drugs on 26th June.

All students are instructed to submit their holiday homework within the first week of July.

