

RAMJAS SCHOOL ANAND PARVAT



SESSION: 2025-26

HOLIDAY HOMEWORK

CLASS XI SCIENCE

“Learn while you explore”, makes for a summer you ‘ll adore! “



Dear Students,

Learning is the beginning of wealth, Learning is the beginning of health, Learning is the beginning of spirituality. Searching and Learning is where the miracle process all begins.

.....Jim Rohn

The summer vacation, this time would be ice creams, candies and cool pool, but time can in honing skills and interests. It is better to bloom, than to be a bud, and you are responsible young members of the nation and it's your duty to follow rules. Here are some holiday activities designed for creative utilization of time. Give flight to your imagination and spend time with a purpose. This summer vacation, the holiday homework is designed by the mentors of the school as a medium for you all to achieve the motto of 'Fun and Learn'

REMEMBER

- Neatness and hygiene are part of your routine.
- Holiday homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.
- It's a perfect time to enhance your speaking skills and vocabulary by conversing in English with your family and siblings.
- Reading is essential for those who seek to rise above the ordinary. Spend your quality time reading motivational books.
- A beautiful handwriting makes a good impression. Practice one page of English and Hindi writing daily.
- Schedule your time for activities so that there is no piling up at the last moment.
- Holiday homework should be your authentic creative work.

Please note that this file contains 5 pages ↓





RAMJAS SCHOOL, ANAND PARVAT, NEW DELHI-05
SUMMER HOLIDAY HOMEWORK
CLASS 11 SCIENCE
SESSION 2025-2026

SUBJECT: ENGLISH

1) Choose any one topic from the following and prepare a handwritten project file using A4 size sheets-

- i. Science and Technology
- ii. Current Trends in Socio Economic Structure
- iii. Nation Building
- iv. Promoting Global Understanding
- v. Workforce Education Skills

NOTE: Further details of the project will be shared in class

2) In your English Practice Notebook, cut out and paste 5 clippings each of Classified Ads under the following heads-

- For sale
- To-let
- Situation vacant
- Matrimonial
- Lost/ Found/ Missing

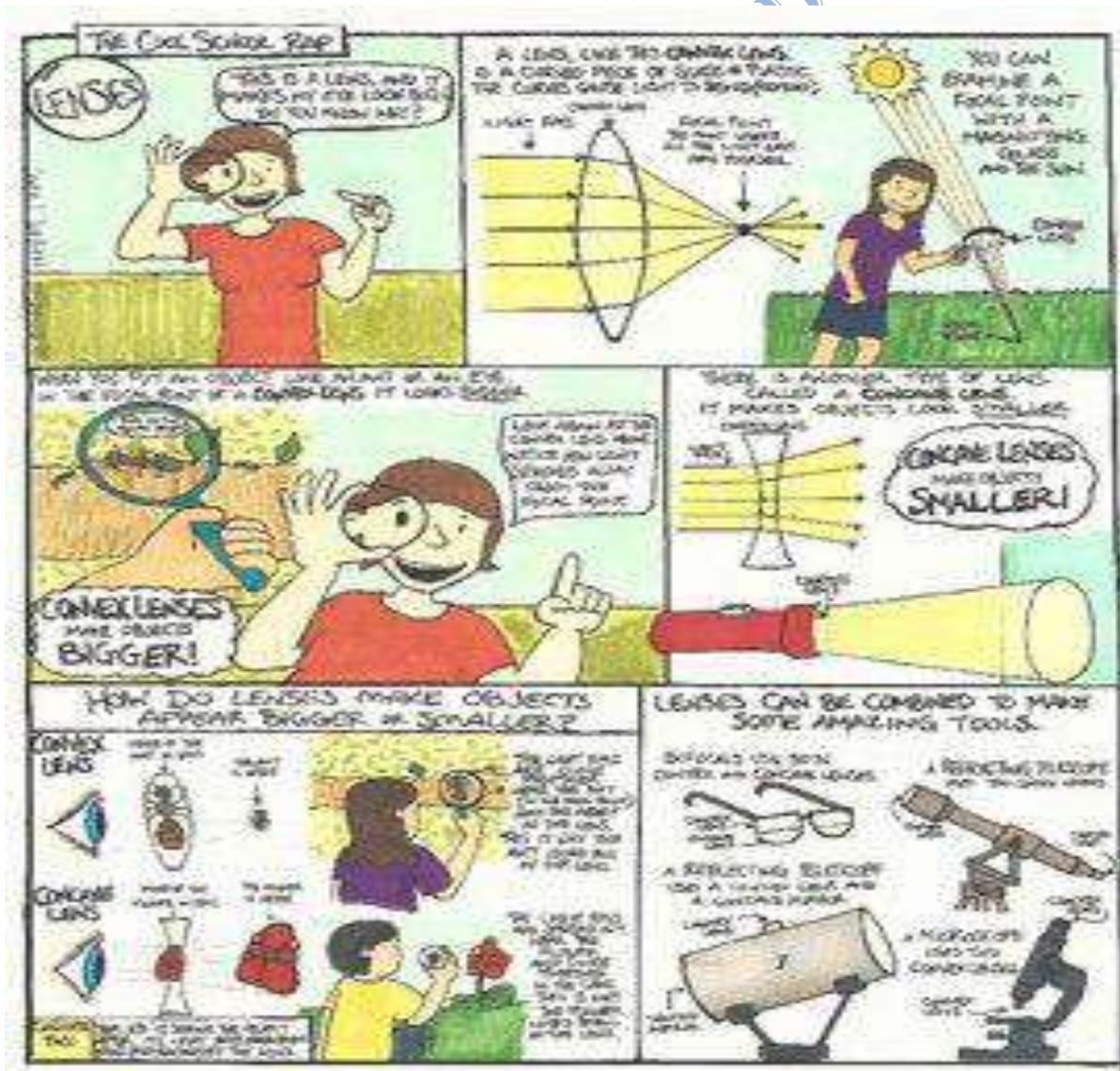
SUBJECT : PHYSICS

1. Revise Ch-1 and solve all the NCERT back exercise questions of the chapter, on white A-4 size sheets.
2. MAKE YOUR OWN COMIC STORY.

Instructions for the comic story:

TOPIC	Motion
CHAPTERS COVERED	NCERT Chapter 2, 3
NAME OF THE BOOK	NCERT Physics Class XI
TYPE OF ACTIVITY	Make your own Comic Story

ART FORM USED	WRITING, PAINTING AND SKETCHING (STILL IMAGES AND TEXT)
PLAN OF IMPLEMENTATION	A4 size sheet can be divided into 4-8 small squares/rectangles which includes the following information:- <ul style="list-style-type: none"> • Introduction of the TOPIC • About the concept (in short) • Relation to other subjects • applications
FOLLOW UP EXERCISE	<ol style="list-style-type: none"> 1. Research on the topic. 2. Realization of justified uses in daily life. 3. Linking the topic with all sciences: Physics, Biology, Chemistry



SUBJECT : CHEMISTRY

1. Revise Ch-1 and solve all the NCERT back exercise questions of the chapter, on white A-4 size sheets.
2. Make a power-point presentation/ model/ case-study/ poster (allotted to you as per roll number; see below) on any relevant topic of chemistry.

Power Point presentation Roll No. 1,5,9,13,17, 21....so on

Model Roll No. 2,6,10,14,18, 22....so on

Case-Study Roll No. 3,7,11,15,19, 23....so on

Poster Roll No. 4, 8,12, 16, 20, 24....so on

- Suggested topics are given below, but you are allowed to take up any other topic of your interest, as well.
- Presentation should be your own work & not downloaded from internet. Poster to be made on A-3 size sheet. Case-study should be 7-8 pages, excluding the title page.
- Research is to be done thoroughly and work done should be creative + interactive.

Suggested topics:

TYPES OF BATTERIES

POSTER ON ANY ONE ELEMENT OF YOUR CHOICE

STUDY OF SOLUBILITY OF SOLUTIONS AND FACTORS AFFECTING IT

NOBLE LAUREATES OF THE DECADE OR CENTURY

RECENT ADVANCES IN THE FIELD OF CHEMISTRY

SALT ANALYSIS (CATION AND ANION ANALYSIS)

VSEPR THEORY

MOLECULAR ORBITAL THEORY

GALVANIC CELL/DANIEL CELL

SUBJECT: MATHS

Do Art Integrated Project on any one of the following Topics :

1. Sets
2. Relations and Functions
3. Trigonometry
4. Types of function
5. Relation of Geometry and Maths

Mode of performing Art Integrated Projects

1. Art
2. Collage
3. PPT
4. Poster
5. Mind Map
6. Flow charts

Solve 10 questions from NCERT Exemplar on following topics

1. Sets
2. Relations and Functions
3. Trigonometry

SUBJECT:PSYCHOLOGY

1.To make a Psychology project on any one of the following topics:

Anxiety,Cognitive Thinking,Empathy,Depression and Memory.

2.To write two practicals on practical file

3.Painting on Mental Disability

4.Revision of Ncert chapter 1 and Chapter 2 questions with examples.

5.To write mcq's of the read chapters on Psychology notebook with completed question answers.

SUBJECT : BIOLOGY

1. Completion of Notebooks till Biological classification.

2. Completion of practical file

3. Learn and Revise ch-1 and 2

4. Project Based Learning :- Nutrition and Digestion. (to be done in Notebooks).

5. Prepare an Investigatory Project (handmade) on the topic related to your syllabus.The project should be of 15-20 pages, excluding the title page and bibliography page.

It should contain the following headings:

- Cover page (having school name, name of student, class, topic of project)
- Table of contents
- Certificate
- Acknowledgement
- Introduction to project
- Theory
- Experimental Analysis / Investigation done
- Observation

- Conclusion / Inference
- Bibliography / References

SUBJECT : COMPUTER SCIENCE

Q1 Convert the following Binary numbers into Decimal numbers:

(a) 1010 b) 111010 c) 101011111

Q2 Convert the following binary numbers into their equivalent octal numbers:

a) 100101111 c) 1010011

b) 111011010 d) 10011101

Q3. What is Von Neuman Architecture? Explain with the help of diagram.

Q4. Differentiate the following in tabular form:

a) RAM vs HDD b) Compiler vs Interpreter

Q5. Give 2-3 names/examples of each software category:

a) Utility software b) Proprietary software c) FOSS d) System Software

Q6. Draw the logic gates circuit for the following expressions: a) $AB'+BC$ b) $AB + CD$

Q7. Write 3 advantages and limitations of Python programming language.

Q8. Convert decimal number into binary number.

a)52 b) 44 c) 25.80 d) 62.325

ART INTEGRATED PROJECT

Q9. Prepare a PowerPoint presentation on the topic flowchart.

Roll no 1-17 – Draw a flowchart of calculator calculating + - * / operations of two numbers in the same PowerPoint presentation.

Roll no 18-36 – Draw a flowchart of buying IPL match tickets from standard, premium, pavilion and VIP categories in the same PowerPoint presentation.
