



L.R.S. ACADEMY

A Senior Secondary English Medium School, Nagina (Bijnor)
(Affiliated to C.B.S.E. New Delhi)

SUMMER HOLIDAY HOMEWORK

**CLASS
XI (PCM)**



Laying the foundation of excellence

Principal's message

Dear Students,

Summer vacation is a much-awaited time for rest, reflection, and rejuvenation. It offers a wonderful opportunity to relax, explore your interests, and spend quality time with your loved ones.

However, this break also gives you the chance to continue learning beyond the classroom. Read good books, try something creative, and take up activities that help you grow as a person. The holiday homework given to you is designed not just to revise your lessons, but also to encourage independent thinking and creativity.

Make sure to balance fun with responsibility. Stay safe, take care of your health, and use your time wisely. We look forward to seeing you refreshed and recharged after the holidays.

Wishing you a joyful and productive summer break!

Warm regards,

Noopur Chandra

**Principal
LRS Academy, Nagina**

Instructions to do holiday homework -:

- 1. Take separate thin notebook for each subject cover each notebook & label properly.**
- 2. Take care of your handwriting.**
- 3. Cover the notebook properly & label it.**
- 4. school will reopen on 01/07/2025 & Holiday homework will be summited at the same date.**
- 5. Holiday homework marks will be added in the next exam.**



L. R. S. ACADEMY, NAGINA

HOLIDAY HOME WORK- 2025-26

Class –XI (PCM)

ENGLISH

1. Instagram Profile of the Grandmother (Visual & Tech Fun)

Design a mock Instagram profile for the grandmother using chart paper or Canva:

Username: @wisegranny1920

Make 5 “posts” with images and captions (e.g. feeding sparrows, praying, storytime with the author)

Include hashtags like #BlessedWithWisdom #OldSoul #GrandmaGoals

2. Podcast Episode

Prepare a short podcast episode content, titled “Tea with Daadi” where you interview the grandmother (played by you or a family member) about her life, values, and memories.

3. Then vs Now” Parallel Timeline

Create a split-page timeline:

On the left: The grandmother’s life (100 years ago)

On the right: A modern teenager’s life (today) Show differences in values, education, technology, and lifestyle—while highlighting emotional similarities.

MATHEMATICS

1. What is set. Define all kinds of set with suitable examples.
2. Show all the operations of sets by the Venn Diagram.
3. How is relation and function relate to the set. Show it by the suitable examples.
Note: Make a Chart of all the formulae of Sets and Trigonometry. Five Students can share one chart.

CHEMISTRY

1. Prepare a project on the given topic as explained in the class.
2. Revise the syllabus done so far
3. Solve the following in your class note book.
 - a. Calculate the mass of one atom of silver ($\text{Ag} = 108\text{u}$)
 - b. The mass of 216.5 ml of a gas at STP is found to be 0.6862g. calculate the molecular mass of the gas.
 - c. Calculate the mass of sodium which contains the same number of atoms as are present in 10g of magnesium.
 - d. 10g of sucrose is dissolved in 100g of water. Find the mass percentage of sucrose in the solution.
 - e. 4g of NaOH is dissolved in 200 cm^3 of water. Find the molarity of the solution.

- f. 1.0 g of pure sample of CaCO_3 is treated with 50 cm^3 of 1/20 Hcl solution. Calculate the volume of CO_2 that will be evolved at STP.
- g. How many protons and neutrons are present in the following nuclei
 ${}^4_2\text{He}$, ${}^{12}_6\text{C}$, ${}^{40}_{16}\text{Ar}$, ${}^{22}_{10}\text{Ne}$, ${}^{235}_{92}\text{U}$
- h. The frequency if a radiation belonging to radio waves is 3×10^7 Hz. Find the wave number and wave length of the radiation.
- i. One of the spectral lines of calcium has a wave length of 456mm. calculate the frequency of this line.
- j. Write the electronic configuration the following atoms Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn.

PHYSICS

1. Make dimension chart in note book.
2. Solve at least 2 numerical of all uses of dimension.
3. Make a flow chart of all short definition with formula of chapter kinematics
4. Solve all four equations of uniform motion.
5. Draw all possible graphs of chapter kinematics.

Note:- For numericals, use only helping book.

PHYSICAL EDUCATION

Practical 1- Fitness test administration (SAI Khelo India Test) – Battery of test for age group 9 to 18)

Practical 2- Explain any 10 Asanas their procedure, benefits and contraindications.

Practical 3- Any one IOA recognized sport/game of your choice.

Note :-

- It is compulsory to label the diagram of each activity.
- Do it in the Practical Manual of Physical Education.