

Sushila Model School
Dayanand Nagar, Ghaziabad
Holiday Homework(2025-26)
Class-XII(Science)

Subject	Homework
English	<p>1. Collect the information about Kailash Satyarthi . Make and write a report on child trafficking and child labour on colourful A4 size pastel sheets.</p> <p>2. Take an interview of Sunita Williams(Collect all the information using internet) and write it on the A4 sheets and decorate the file.</p>
Chemistry	<p>Complete your Investigatory project as per given topics.</p> <p>Roll No-1.Sterlization of water using bleaching powder.</p> <p>Roll No-2.Analysis of fertilizer.</p> <p>Roll No-3.Presence of oxalate ions in guava fruit in different stages of ripening.</p> <p>Roll No-4. Effect of KHSO_4 as food preservative.</p> <p>Roll No-5.Quantity of the presence of casein in different sample of milk .</p> <p>Roll No-6.Measuring solubility of the saturated solutions .</p> <p>Roll No-7. Determination of contents in cold drink.</p> <p>Roll No-8.Presence of insecticides and pesticides in fruits and vegetables.</p> <p>Roll No-9. Effect of sodium carbonate on foaming capacity of a soap.</p> <p>Roll No-10. Extraction of nicotine from samples of cigarettes.</p> <p>Roll No-11. Green chemistry</p> <p>Roll No-12.Rate of evaporation of different liquids .</p> <p>Roll No-13.Determination of caffeine in tea samples .</p> <p>Roll No-14. Determination the amount of phosphate in detergents.</p> <p>Roll No-15. Preparation of Potash alum .</p> <p>Roll No-16.Sterlization of water using bleaching powder.</p> <p>Roll No-17.Analysis of fertilizer.</p> <p>Roll No-18.Presence of oxalate ions in guava fruit in different stages of ripening.</p> <p>Roll No-19. Effect of KHSO_4 as food preservative.</p> <p>Roll No-20.Quantity of the presence of casein in different sample of milk</p> <p>Roll No-21.Measuring solubility of the saturated solutions .</p> <p>Roll No-22. Determination of contents in cold drink.</p> <p>Roll No-23.Presence of insecticides and pesticides in fruits and vegetables.</p> <p>Roll No-24. Effect of sodium carbonate on foaming capacity of a soap.</p> <p>Roll No-25. Extraction of nicotine from samples of cigarettes.</p> <p>Roll No-26. Green chemistry</p> <p>Roll No-27.Rate of evaporation of different liquids .</p> <p>Roll No-28.Determination of caffeine in tea samples .</p> <p>Roll No-29. Determination the amount of phosphate in detergents.</p>

Biology	<p>Complete your Investigatory project as per given topics.</p> <p>Roll No 2. - Any rare disease</p> <p>Roll No 7- Sexually transmitted diseases</p> <p>Roll No 9- Coffee addiction</p> <p>Roll No 10- Infertility</p> <p>Roll No 12- DNA fingerprinting</p> <p>Roll No 13- Allergies</p> <p>Roll No 15- Useful microbes</p> <p>Roll No 18- Biodiversity and conservation</p> <p>Roll No 19- Immunity</p> <p>Roll No 29- Drug abuse</p>
Mathematics	<p>• Surf, collect data and complete Activities of Ch-1 & 2 in your Mathematics Lab Manual</p> <p>• Solve two case study each of Ch-1 and Ch-2 in your fair notebook.</p>
Physical Education	<p>Prepare a practical file on the following topics:- Sai khelo India test , proficiency in games and sports (volleyball),yogic practices</p>
Computer Science	<p>Prepare a practical file on the given topics (Topics: Data file Handling, Review of python,Functions,) with 5 SQL Queries</p> <p>* Project Work</p> <ol style="list-style-type: none"> 1. Decide your final project topic 2. Write a 1-page summary including: <p>* Title</p> <p>* Problem Statement</p> <p>* Tools Used(e.g. Python+CSV or MySQL)</p> <p>* Proposed Features</p> <p>Note: Submission program typed and printed or in a well-maintained Handwritten file.</p>
Physics	<p>Prepare a detailed investigatory project report (15-20 pages) on specific topics assigned in the class.</p> <p>Roll no. 1,9,17 & 25</p> <ol style="list-style-type: none"> 1. To study various factors on which the internal resistance/EMF of a cell depends. <p>Roll no. 2,10,18,& 26</p> <ol style="list-style-type: none"> 2. To study the variations in current flowing in a circuit containing an LDR because of a variation in <ol style="list-style-type: none"> (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of an incandescent lamp (of fixed power) used to 'illuminate' the LDR. <p>Roll No 3,11,19 & 27</p> <ol style="list-style-type: none"> 3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.

Roll no.4,12,20 &28

4. To investigate the relation between the ratio of

(i) output and input voltage and

(ii) number of turns in the secondary coil and primary coil of a self-designed transformer.

Roll no.5,13,21 &29

5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.

Roll no. 6,14 &22

6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.

Roll no. 7,15 & 23

7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.

Roll no 8,16 &24

8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.