INFORMATION	
SUBJECT NAME: PHYSICS	**CLASS & SECTION: X (A,B)**
SUBJECT TEACHER NAME: Mr Onkar Singh, Mr Bhandarkar C L	
INSTRUCTIONS: Please prepare file in support of model. Use your own creativity. Marks for projects will be counted for subject Enrichment internal marks.	

ASSIGNMENT

CHAPTER11: ELECTRICITY

Content 1. What is Ohm's law, and what are its limitations?

Content 2. A 10-meter long wire of uniform resistance of 20 Ω is connected in a series with a 5 Ω resistor and a battery of 12 V. Calculate the current in the wire.

Content 3. A wire of resistance 20 Ω and length 10 m is stretched such that its length is increased to 20 m. Calculate its new resistance?

Content 4. Distinguish between the terms **electrical energy** and **electrical power**. Give the commercial unit of electrical energy and express it in joules.

Content 5. What are the advantages of connecting electrical devices in **parallel** instead of in series? Use a household circuit as an example.

CHAPTER10: THE HUMAN EYE AND THE COLORFUL WORLD

Content 1. Explain the principle of accommodation of the human eye. What are ciliary muscles and how do they help in this process?

Content 2. Describe how a rainbow is formed in the sky, mentioning the necessary conditions for its appearance.

Content 3. A person with myopia can only see objects clearly up to a distance of 200 cm. Calculate the focal length and the power of the concave lens required to restore normal vision.

Content 4. A person can't see objects beyond 1.5 meters. What is the type of vision defect, and what kind of spectacle lens (power) is required to correct it?

Content 5. What is scattering of light? Which color of light is scattered the most and why?

Prepare at least one model/project from the following: -

1. Prepare model to verify Ohm's law of electricity.

2. Prepare the colorful chart (3X2 ft) for the different defect of vision their causes, defective eye ray diagram and its rectification.

3. Prepare the model to show scattering of light in atmosphere.

4. Prepare the model for spectrum produced in glass prism.

5. Prepare the model -How to measure DC current and P.D **in a circuit.**

[You may prepare model of your choice relevant to physics class -x]

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK 2025-26

SUBJECT NAME- CHEMISTRY	
CLASS & SECTION: X	**SUBJECT TEACHER NAME: TONY ABRAHAM**

INSTRUCTIONS:

1. Make a separate note book for the HW

1. When magnesium ribbon is burnt in oxygen, an ash of white colour is produced. Name the type of reaction giving justification for your answer. Write the balanced chemical equation for the reaction that occurs.
2. Give one chemical equation each for the chemical reaction in which the following changes occur (Mention the change in temperature/colour and/or the compound precipated with the equation) (a) Change in temperature (b) Change in colour (c) Formation of precipitate
3. What is chlor-alkali process ? Write chemical equation for the reaction involved in this process. Name the electrode at which (i) chlorine gas, and (ii) hydrogen gas is given off
4. The metals produced by various reduction processes are generally not very pure. They contain impurities of other metals and non-metals which must be removed to obtain pure metals. The most widely used process for refining metals such as gold, silver, zinc, copper, etc. is electrolytic refining.
(a) What is the cathode and anode made of in the refining of silver by this process ?
(b) Name the electrolyte used in this process and write its chemical formula
5. Write a balanced chemical equation for the reaction between zinc granules and dilute sulphuric acid. How will you test the gas evolved?
6. Write the balanced chemical equation for the reaction that takes place when lead nitrate crystals are heated. Name the type of reaction.
7. Identify the type of reaction in the following and justify:
   a) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$ b) $2KClO_3 \rightarrow 2KCl + 3O_2$
8. What is corrosion? Write a chemical reaction to show rusting of iron.
9. Explain the importance of a balanced chemical equation with an example.
10. What is rancidity? How can it be prevented?
11. Write a balanced chemical equation for the reaction of sodium carbonate with dilute hydrochloric acid. Name the type of reaction.
12. A shining piece of copper was placed in silver nitrate solution. After some time, the solution turns bluish green. Write the balanced chemical equation for this reaction. Identify the type of reaction.
13. What happens chemically when quicklime is added to water? Write the balanced chemical equation. State two uses of the product formed.
14. A white salt on heating decomposes to give brown fumes and a residue is left behind. Name the salt and write the chemical equation of the reaction.
15. Write the chemical equations to show what happens when sodium hydroxide solution reacts with (a) zinc metal, (b) aluminium metal.
16. Name the products obtained when sodium hydrogen carbonate reacts with hydrochloric acid. Write a balanced equation.
17. A student takes some zinc granules in a test tube and adds dilute hydrochloric acid. Write the chemical reaction that takes place. How will he test the evolved gas?
18. Write the chemical equation of the reaction of copper oxide with dilute hydrochloric acid. Name the type of reaction.
19. Explain why aqueous solution of an acid conducts electricity.
20. Why is common salt sometimes treated with iodine? Write the chemical equation for the preparation of common salt.
21. Crystals of copper sulphate are heated in a dry test tube. Explain the change observed with the help of a

chemical equation.
22. Fresh milk has a pH of 6. When it changes into curd, will its pH value increase or decrease? Why?
23. Name the gas usually liberated when an acid reacts with a metal. Write a balanced chemical equation for the reaction of zinc with sulphuric acid. How will you test the gas?
24. Explain the chemical reaction of Plaster of Paris with water. Write the balanced chemical equation.
25. Write the chemical equations for the reactions of magnesium with:
a) Dilute hydrochloric acid b) Oxygen c) Cold water
26. What is the difference between roasting and calcination? Write chemical equations for each.
27. What happens when: a) Copper reacts with moist air? b) Aluminium is exposed to moist air?
28. Explain with examples: (i) displacement reaction, (ii) reaction of a metal with a salt solution.
29. Show with the help of a chemical reaction how a less reactive metal can be coated on a more reactive metal.
30. Write the balanced chemical equation for the reaction of sodium with water. Write two observations made during the reaction.
31. What is aqua-regia? How does it help in dissolving gold?
32. Write the reactions of iron with: a) Dilute hydrochloric acid b) Steam
33. Why does calcium float in water? Write the chemical equation for the reaction.
34. Explain with the help of equations the extraction of zinc from zinc oxide.
35. Bee-sting causes pain and irritation. Why?

To complete the written work in Practical Note book

1. A. Finding the pH of the following samples by using pH paper/universal indicator:
(i) Dilute Hydrochloric Acid
(ii) Dilute NaOH solution
(iii) Dilute Ethanoic Acid solution
(iv) Lemon juice
(v) Water
(vi) Dilute Hydrogen Carbonate solution
B. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with:
a) Litmus solution (Blue/Red)
b) Zinc metal
c) Solid sodium carbonate
2. Performing and observing the following reactions and classifying them into:
A. Combination reaction
B. Decomposition reaction
C. Displacement reaction
D. Double displacement reaction
(i) Action of water on quicklime (ii) Action of heat on ferrous sulphate crystals
(iii) Iron nails kept in copper sulphate solution (iv) Reaction between sodium sulphate and barium chloride solutions
3. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:
i) $ZnSO_4(aq)$ ii) $FeSO_4(aq)$ iii) $CuSO_4(aq)$ iv) $Al_2(SO_4)_3(aq)$
Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.
4. Experimentally show that carbon dioxide is given out during respiration.
5. Study of the following properties of acetic acid (ethanoic acid):
i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate
6. Study of the comparative cleaning capacity of a sample of soap in soft and hard water.

(Tony Abraham)
PGT Chemistry

Note: Kindly allocate the required number of questions.*

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK : 2025-26

INFORMATION	
SUBJECT NAME: BIOLOGY	**CLASS & SECTION: X A,B,C**
SUBJECT TEACHER NAME: BHUPENDRA BIHARI VYAS	
INSTRUCTIONS: Questions given are based upon HIGH ORDER THINKING SKILLS. Attempt all the questions. Prepare a separate notebook for the same.	

ASSIGNMENT

1. "All living organisms are dependent on light for their nourishment". Justify the statement.
2. Explain why the plants growing in deserts take up CO_2 at night and utilize it during the day.
3. What will happen to the process of photosynthesis if the potted green plants are kept in (a) Bright light (b) Dark (c) Green light (d) Absence of CO_2
4. At times, we feel burning sensations in our throat due to indigestion. Why?
5. Blood pressure is high in the arteries and low in the veins. Give reason.
6. Why do we feel an urge to pass out urine?
7. What steps would you suggest to be taken by your friends and family to mitigate respiratory problems?
8. Give reasons for the following:
(a) Pituitary is often termed as master endocrine gland.
(b) Pancreas is categorized as heterocrine gland.
(c) Adrenals are known as glands of emergency.
9. Why do the leaves of 'Touch me not' plant droops down when touched?
10. Name the chemical that fruit dealers kept in wrapped paper in each box. What is its natural analogue in plants? Is this practice healthy? Give your comments.
11. What will happens to the carpel of a bisexual flower if pollination fails to occur?
12. 'Regeneration cannot be regarded as reproduction'. Why?
13. Suppose there is no meiosis and the gametes are formed by mitosis. What kind of situations do you expect under such circumstances?
14. What are the limitations of electrical impulses over chemical control & coordination?
15. What are STDs? Which method of contraception can protect the person from STDs ? Explain.

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME – SOCIAL SCIENCE	
CLASS & SECTION: X A,B,C	**SUBJECT TEACHER NAME: J S SHEKHAWAT & D SHARMA**

INSTRUCTIONS:

1. *Make a separate file for holiday homework.*
2. *All Questions are compulsory.*
3. *Draw neat & clean figures wherever required.*

ASSIGNMENT

INTERDISCIPLINARY PROJECT WORK – CLASS X

Topic: The Nineteenth Century (1815–1914) to the End of Bretton Woods and the Beginning of "Globalisation"

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1. Objectives

- To explore the key economic, political, and social developments from 1815 to the late 20th century.
- To understand how colonialism, industrialisation, and wars shaped modern global relations.
- To study the evolution of the world economy from the nineteenth century to the rise of globalisation.
- To develop interdisciplinary learning through connections between history, economics, geography, and political science.
- To enhance research, analytical, and presentation skills among students.

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2. Interdisciplinary Linkages

Subject	Integration Focus
History	Industrial Revolution, Colonialism, World Wars, Decolonisation, Bretton Woods, and Globalisation.
Economics	World trade, capitalism, global market integration, and IMF-World Bank roles.
Geography	Mapping industrial regions, colonial empires, and trade routes.
Political Science	Impact of global institutions (UN, WTO, IMF) and international cooperation.
English / IT	Report writing, essay preparation, digital presentations, and data visualisation.

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3. Suggested Subtopics (Students may choose any one or combine two):

1. The Industrial Revolution and the Making of a Global World

2. European Expansion and Colonial Empires (1815–1914)
3. The Great Depression and the Bretton Woods System (1944)
4. The End of Bretton Woods and the Rise of Globalisation
5. Impact of Globalisation on Developing Nations (with special reference to India)

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4. Project Work Guidelines

Each student will:

- Conduct **independent research** on the chosen subtopic.
- Prepare a **project file/report (15- 20 pages)** handwritten.
- Include **maps, charts, graphs, and timelines** to illustrate key ideas.
- Support the project with **relevant case studies**, statistics, and real-world examples.
- Give a short **presentation or viva** in class summarising their findings.

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5. Project File Format

1. **Cover Page –** Title, Name, Class, Roll No., School Name, Subject.
2. **Acknowledgement**
3. **Objectives / Aim of the Project**
4. **Introduction –** Background of the topic.
5. **Main Content / Research Work –** Analysis, facts, data, maps, charts, etc.
6. **Conclusion –** Key findings and reflections.
7. **Bibliography –** Books, websites, or references used.

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6. Learning Outcomes

After completing this project, students will be able to:

- Explain how industrialisation, colonisation, and wars led to a globalised world.
- Analyse the economic and political consequences of the Bretton Woods System.
- Identify the links between past global developments and today's world economy.
- Express ideas effectively through written, visual, and oral communication.

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT : MATHEMATICS	
CLASS & SECTION: X A , X B & XC	**SUBJECT TEACHER NAME: RAKESH RAMPURIA & AMIT KUMAR JHA**

INSTRUCTIONS:

1. Use separate Note book for Mathematics.

2. Writing should be very neat and clean.

3. Do all work with date & day.

INSTRUCTIONS FOR PROJECT WORK:

1. Introduce yourself (Name of cadet, School No, Class & Section) and your topic (Name of Activity/Objective) at the beginning of your PROJECT WORK.

2.Activityshould be framed in such a way that it is self-explanatory and well illustrated.

3. One cadet will do any one project out of the listed projects.

ASSIGNMENT

Notebook Assignment:

CHAPTER 1: **REAL NUMBERS**

Q.1 The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 am, at what time they change together next.

Q.2 Prove that $6-\sqrt{7}$ is irrational number, given that $\sqrt{7}$ is an irrational number.

Q.3 An army contingent of 612 members is to march behind an army band of 48 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march?

Q.4 Explain why $2\times 3\times 5+5$ and $5\times 7\times 11+7\times 5$ are composite numbers.

CHAPTER 2: **POLYNOMIALS**

Q.1 If α and β, are zeroes of the quadratic polynomial $x2 - 7x + 10$, form a quadratic polynomial whose zeroes are α^2 and β^2.

Q.2 Find a quadratic polynomial whose zeroes are reciprocals of the zeroes of the polynomial $f(x) = ax^2+bx+c$, $a\neq 0.c\neq 0$.

Q.3 Find the zeroes of a quadratic polynomial $2x^2+3x-14$ and verify the relationship between the zeroes and its coefficients.

Q.4 Write the polynomial, the product and sum of whose zeroes are $-9/2$ and $-3/2$ respectively.

CHAPTER 3: **PAIR OF LINEAR EQUATIONS IN TWO VARIABLES**

Q.1 Two people are 16 km apart on a straight road. They start walking at the same time. If they walk towards each other with different speeds, the will meet in 2 hours. Had they walked in the same direction with same speeds as before, they would have met in 8 hours. Find their walking speeds.

Q.2 If the system of linear equations $2x+3y=7$ and $2ax+(a+b)y=28$ have infinite number of solutions, then find the values of a and b.

Q.3 A lending library has a fixed charge for the first three days and an additional charge for each day thereafter. Rittik paid Rs. 27 for a book kept for 7days and Manmohan paid Rs. 21 for a book kept for

5 days. Find the fixed charges and the charge for each extra day.

Q.4 Determine graphically the coordinates of the vertices of a triangle, the equations of whose sides are given by 2y-x=8, 5y-x=14 and y-2x=1.

CHAPTER 4: **QUADRATIC EQUATIONS**

Q.1 Two water pipes together can fill a tank in 15/8 hours. The pipe with larger diameter takes 2 hours less than the pipe with smaller diameter to fill the tank separately. Find the time in which each pipe can fill the tank separately.

Q.2 If one zero of the polynomial p(x) =6x2+37x-(k-2) is reciprocal of the other, then find the value of k.

Q.3 Find the value of m for which the quadratic equation (m-1) x^2+2(m-1) x+1=0 has two real and equal roots.

Q.4 A train travels 360 km at a uniform speed. If the speed had been 5 km/hr more, it would have taken 1 hr less for the same journey. Find the speed of the train.

CHAPTER 5: **ARITHMEIC PROGRESSIONS**

Q.1 Rohan repays his total loan of Rs. 1, 18,000 by paying every month starting with the first instalment of Rs. 1,000. If he increases the instalment by Rs. 100 every month, what amount will be paid by him in the 30th instalment? What amount of loan has he paid after 30th instalment?

Q.2 The ratio of 11th term to the 18th term of an AP is 2:3. Find the ratio of the 5th term to the 21st term. Also, find the ratio of the sum of first 5 terms to the sum of first 21 terms.

Q.3 If pth term of an AP is q and qth term is p, then prove that its nth term is (p+q-n).

Q.4 If m times the mth term of an Arithmetic Progression is equal to n times its nth term and m $\neq$ n, show that the (m + n)th term of the A.P. is zero.

CHAPTER 6: **TRIANGLES**

Q.1 Sides AB and BC and median AD of a triangle ABC are respectively proportional to sides PQ and QR and median PM of ΔPQR. Show that ΔABC ~ PQR.

Q.2 Diagonals AC and BD of a trapezium ABCD with AB$\parallel$DC intersect each other at point O. show that OA/ OC = OB/ OD .

Q.3 .If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, prove that the other two sides are divided in the same ratio.

Q.4 If the diagonals of a quadrilateral divide each other proportionally, prove that it is a trapezium.

CHAPTER 7: **COORDINATE GEOMETRY**

Q.1 Find the ratio in which y-axis divides the line segment joining the points (5,-6) and (-1,-4).

Q.2 The line segment joining the points A (4,-5) and B (4, 5) is divided by the point P such that AP: AB=2:5. Find the coordinates of P.

Q.3 If the points A(2,3) , B(-5,6), C(6,7) and D(p,4) are the vertices of a parallelogram ABCD, find the value of p.

Q.4 Points P and Q trisect the line segment joining the points A (– 2, 0) and B (0, 8) such that P is near to A. Find the coordinates of points P and Q.

CHAPTER 8: **INTRODUCTION TO TRIGONOMETRY**

Q.1 Prove that (cosec A − sin A)(sec A − cos A) = 1 /(cot A+tan$A$) .

Q…2 Prove that: (sinθ−cosθ+1)/(sinθ+cosθ−1) = 1 /(secθ−tanθ).

Q.3 Prove that: (sin A − 2sin^3 A)/(2cos^3 A − cos A)= tan A.

Q.4 Prove that: (2cos^3 θ−cosθ)/(sin θ−2sin^3 θ) = cot θ

CHAPTER 9: **SOME APPLICATIONS OF TRIGONOMETRY**

Q.1 From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45^0 and 60^0 respectively. Find the height of the

tower.(Use $\sqrt{3} = 1.73$)

Q.2 A man on the top of a vertical tower observes a car moving at a uniform speed coming directly towards it. If it takes 18 minutes for the angle of depression to change from 30^0 to 60^0, how soon after this will the car reach the tower?

Q.3 Two ships are approaching a light-house from opposite directions. The angles of depression of the two ships from the top of the light-house are 30^0 and 45^0 . If the distance between the two ships is 100 m, find the height of the light-house. [Use $\sqrt{3} = 1.732$]

Q.4 The angle of elevation of an aeroplane from a point A on the ground is 60_0 . After a flight of 15 seconds, the angle of elevation changes to 30^0. If the aeroplane is flying at a constant height of $1500\sqrt{3}$ m, find the speed of the plane in km/hr.

CHAPTER 10: **CIRCLES**

Q.1 Prove that opposite sides of a quadrilateral circumscribing a circle subtend supplementary angles at the centre of the circle.

Q.2 Prove that the length of tangents drawn from an external point to a circle are equal.

Q.3 Prove that a parallelogram circumscribing a circle is a rhombus.

Q.4 From an external point, two tangents are drawn to a circle. Prove that the line joining the external point to the centre of the circle bisects the angle between the two tangents.

PROJECT WORK:

1. To make a mathematical instrument 'clinometer' for measuring the angle of elevation/depression of an object.
2. To establish a formula for the sum of first n terms of an Arithmetic Progression.
3. To obtain the formula for the lateral surface area of a right circular cylinder in terms of radius (r) of it base and height (h).
4. To verify that the lengths of tangents to a circle from some external point are equal.
5. To verify experimentally that the tangent at any point of a circle is perpendicular to the radius through that point.
6. To get familiar with the idea of probability of an event through a double card experiment.
7. To give a suggestive demonstration of the formula for the volume of a right circular cone.
8. To find the formula for the volume of a sphere with the help of an activity.
9. To give a suggestive demonstration of the formula for the surface area of a sphere in terms of its radius.
10. To give a suggestive demonstration of the formula for the lateral surface area and total surface area of a right circular cone.
11. To obtain the formula for the lateral surface area of a right circular cylinder in terms of radius (r) of its base and height (h).
12. To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
13. To find the sum of the first n odd natural numbers.
14. To verify the distance formula by graphical method.
15. To verify the Basic Proportionality Theorem using parallel line board and triangle cut-outs.
16. To verify section formula by graphical method.
17. To establish the criteria for similarity of two triangles.
18. To obtain formula for area of a circle experimentally.

Note: Kindly allocate the required number of questions*

SAINIK SCHOOL CHITTORGARH

SUMMER VACATION HOLIDAY HOMEWORK

INFORMATION	
SUBJECT NAME: English	**CLASS & SECTION: X A,B and C**
SUBJECT TEACHER NAME: Rawal Rathore	

INSTRUCTIONS:

1. The holiday homework will be considered as your English project work.
2. The marks awarded for this will be counted towards Internal –assessment.
3. On page 1: write -English Assignment, Name, Class and Roll number.

ENGLISH PROJECT WORK
NAME:
CLASS: SECTION
SCHOOL NUMBER:
HOUSE:

5. Last page of the Assignment will carry the following certificate

CERTIFICATE

This is to certify that I_____ OF Class _____. Have done the English Assignment work on my own. It is my own original work as per the guidelines provided by _____(Name of the teacher).
Signature
Name:

Use your holidays wisely to strengthen your English reading, writing, and analytical skills. Complete the following tasks neatly and sincerely.

1. Daily Reading Practice (20 Days) Read **one page daily** from any English **storybook, newspaper, or magazine**.Objective: Improve your **reading comprehension and vocabulary**.*(No written work required — just make it a daily habit!)*

2. Literature Work a) Write 5 **Questions & Answers** from the chapters covered in class in your **Literature notebook**.(1-5 of both books)

b) Creative Writing Task

- Recreate the story **'A Letter to God'** in **your own words**.
- Imagine yourself as **Lencho** and modify the story as you wish.
- Word limit: **150 words**

c) Nelson Mandela – Long Walk to Freedom

- What is an **autobiography**? Read and study the autobiography of **Mr. Nelson Mandela**.
- Write the **main features** of his life and **the lesson we can learn from him**. Word limit: **100 words**

3. Writing Skills a) Analytical Paragraphs

- Write 3 **Analytical Paragraphs** on topics of your choice (other than those done in class)

b) Movie Review Assignment

Watch any three of the following movies and write a **critical analysis** for each:

1. *Freedom Writers 2.12th Fail 3 Idiots 4.The Pursuit of Happyness.Super 30 5.* For each movie, include:

Synopsis (brief summary of the story)
Five Emotions shown in the movie: *joy, sadness, anger, disgust,* and *fear*
Name of the character representing each emotion Their physical appearance Their role in the movie
Your favourite character and the reason why

4. a) Sample Paper Practice Solve Any one of the **five previous years' CBSE Sample Papers** (2020-25) covering: Reading Section Writing Section Grammar Section *(To be done in HW Copy)*

5. Subject Enrichment Activity (Speaking Skill)

Prepare a **2–3 minute speech** on **any ONE** of the following topics:

1. Importance of Sports and Games 2.Pleasures of Mountaineering 3.Modern Fashion
4. Inside an Examination Hall 5.If I Become a Millionaire 6.Generation Gap
7. Variety is the Spice of Life 8. Cowards Die Many a Time Before Their Death
9. Adversity Brings Out the Best in Man 10.Ai in day to day life

Be ready to present it after the holidays.*(Practice speaking clearly and confidently.)*

6. **HW assigned on Wordsworth Language lab system to be completed in stipulated time**

Note: Kindly allocate the required number of questions.Submit Hw on the very first day after Autumn break*

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

INFORMATION	
SUBJECT NAME: HINDI	**CLASS & SECTION: X – A, B, C**
SUBJECT TEACHER NAME: RAMESH SAH	

निर्देश: * सभी प्रश्न अनिवार्य है प्रश्नों को क्रमानुसार हल करें ।

* प्रत्येक प्रश्न का उत्तर साफ-सुथरी फाइल में अलग पृष्ठ पर लिखें।

* लेखन में मौलिकता व रचनात्मकता का विशेष ध्यान रखें।

* रंगीन चित्र, शीर्षक या सजावट से फाइल को आकर्षक बना सकते हैं।

* शब्दों की सीमा केवल मार्गदर्शन हेतु है – रचनात्मकता पर कोई रोक नहीं।

ASSIGNMENT

क्षितिज भाग 1 एवं कृतिका भाग 1

प्रश्न 1. 'मेरी दिनचर्या' - यात्रा वृत्तांत / कहानी के रूप में:

अपने अवकाश के दौरान किसी एक दिन को चुनें। उस दिन सुबह उठने से लेकर रात सोने तक की अपनी दिनचर्या को एक मनोरंजक कहानी या एक छोटे-से यात्रा वृत्तांत के रूप में लगभग 200-250 शब्दों में लिखिए। इसमे अपनी भावनाओं और छोटे-मोटे अनुभवों को भी शामिल करें। (उदाहरण: 'आज का दिन एक छोटे-से सफ़र जैसा था...')

प्रश्न 2. 'घर के एक सदस्य से इंटरव्यू' - संवाद / रचनाकार परिचय:

अपने परिवार के किसी एक सदस्य (जैसे दादा-दादी, नाना-नानी, माता-पिता, या बड़े भाई-बहन) का एक छोटा सा साक्षात्कार (Interview) लीजिए। उनसे उनके बचपन के किसी मनपसंद किस्से या जीवन के किसी महत्वपूर्ण अनुभव के बारे में 5-7 प्रश्न पूछिए। पूछे गए प्रश्न और उनके उत्तरों को संवाद शैली में फ़ाइल में लिखिए।

प्रश्न 3. 'विज्ञापन की दुनिया' - रचनात्मक लेखन:

अपने दैनिक जीवन में इस्तेमाल होने वाली किसी एक वस्तु (जैसे पेन, कॉपी, चाय, साबुन, साइकिल) के लिए एक आकर्षक और प्रभावी विज्ञापन तैयार कीजिए। इसमें एक स्लोगन और उस वस्तु की विशेषताओं को दर्शाते हुए एक छोटा सा चित्र भी बनाइए।

प्रश्न 4. 'प्रेरणादायक कविता और मेरा जीवन' - कविता से जुड़ाव:

हिन्दी साहित्य के किसी भी कवि की कोई भी एक छोटी, प्रेरणादायक कविता (जो आपके पाठ्यक्रम में न हो) चुनिए। उस कविता को फ़ाइल में सुंदर अक्षरों में लिखिए। साथ ही, 100 शब्दों में यह भी लिखिए कि उस कविता का संदेश आपको क्यों अच्छा लगा और वह आपके जीवन में कैसे उपयोगी हो सकता है।

प्रश्न 5. 'मोबाइल, वरदान या अभिशाप?' - निबंध/पक्ष-विपक्ष:

वर्तमान समय में मोबाइल फ़ोन की उपयोगिता पर आधारित एक छोटा सा संतुलित निबंध (लगभग 200 शब्द) लिखिए। आपको यह भी बताना है कि आप इसका सदुपयोग कैसे करते हैं और इसके अधिक उपयोग से बचने के लिए क्या-क्या तरीके अपनाते हैं।

प्रश्न 5. 'एक लेखक/कवि, जिसकी मुझे तलाश है' - साहित्यकार परिचय:

आपके पाठ्यक्रम के किसी भी एक कवि या लेखक (जैसे सूरदास, तुलसीदास, मन्नू भंडारी, यशपाल आदि) को चुनिए। उनके जीवन या उनकी रचनाओं के बारे में 5 ऐसी बातें लिखिए, जो आपको सबसे अधिक प्रेरित करती हैं। साथ ही, उनकी एक प्रसिद्ध रचना के शीर्षक का उल्लेख भी कीजिए।

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT: COMPUTER SCIENCE (083) | **CLASS & SECTION :** X-A, B, C

SUBJECT TEACHER: MR ABHISHEK BHARDWAJ

INSTRUCTIONS

(i) Do your homework by yourself.
(ii) Use same notebook for holiday homework.
(iii) Don't use computer to find the output of a program.
(iv) Answers should be neat & clean with concepts.
(v) Do all work with date & day.
(vi) Try to do your written work regularly to enhance your writing power.
(vii) Pay special attention towards your health and caring.
(viii) Completed Homework notebook to be submitted on **07 Nov 2025** *positively.*
(ix) In case of any difficulty please mail me at **ssccomputerscience@gmail.com**

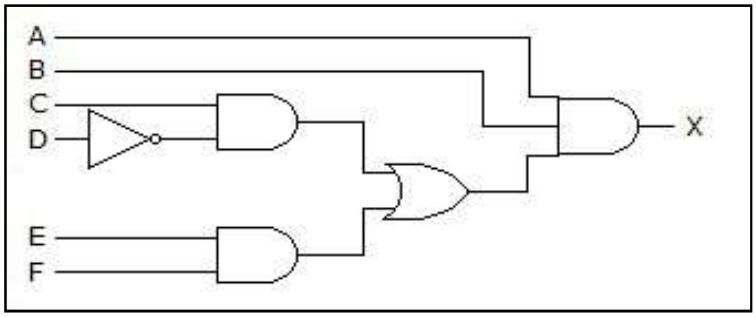
Chapter 2 : Number System

1. Convert the following number systems into corresponding equivalent number system .
   (i) Convert the number $(5062)_{10}$ to the Binary system.
   (ii) Convert $(159)_{10}$ to the Octal number system.
   (iii) Convert $(380)_{10}$ to the Hexadecimal number system.
   (iv) Convert the octal number $(714)_8$ to the decimal number.

Chapter 3 : Boolean Algebra (Logic Design)

Find the step by step Outputs of the following Digital Circuits-

2.



3.