

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK 2026

SUBJECT NAME: ENGLISH	
CLASS & SECTION: VIII A,B& C	SUBJECT TEACHER NAME: Rawal Rathore
GENERAL INSTRUCTIONS <ul style="list-style-type: none">• Use A4-size sheets or a project file and write neatly in your own handwriting.• Include a cover page, index, acknowledgement, conclusion and bibliography, where applicable.• Use relevant pictures, drawings or newspaper cuttings.• Write in your own words, check grammar and spelling, and acknowledge sources.	
1. A Tale of Valour – Courage and Sacrifice Guiding Question: What does Major Somnath Sharma’s story teach us about courage, duty and service to the nation? Instructions: <ul style="list-style-type: none">• Briefly introduce Major Somnath Sharma and the Battle of Badgam.• Describe the qualities that made his actions courageous.• Explain the meaning of duty, sacrifice and service.• Create a short timeline and include two relevant pictures. Task Word Limit: 300–400 words	
2. Verghese Kurien – I Too Had a Dream Guiding Question: How did Verghese Kurien’s vision and determination contribute to the development of India’s dairy sector? Instructions: <ul style="list-style-type: none">• Introduce Verghese Kurien and his dream.• Describe how teamwork and perseverance helped him achieve his goals.• Explain how his work benefited farmers and communities.• Present three qualities students can learn from his life. Task / Word Limit: 300–400 words	
3. Listening Skills – Discussion About Studies Guiding Question: How can students develop effective study habits and balance their studies with rest and other activities? Instructions: <ul style="list-style-type: none">• Complete the assigned Listening Skills task, “Discussion About Studies”, on the Wordsworth English Language Lab system.• Follow the instructions provided on the lab platform.• Note down the key ideas or learning points, if required.• Task / Word Limit: As assigned on the <i>Wordsworth English Language Lab</i>	
4. Listening Skills – Nutrition Guiding Question: Why is balanced nutrition important for students’ health, growth and learning? Instructions: <ul style="list-style-type: none">• Complete the assigned Listening Skills task, “Nutrition”, on the Wordsworth English Language Lab system.• Follow the instructions provided on the lab platform.• Record the important points or new information, if required. Task / Word Limit: As assigned on the <i>Wordsworth English Language Lab</i>	

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME: HINDI

CLASS & SECTION: VIII A, B, C

**SUBJECT TEACHER NAME: ROHIT KUMAR
NAMDEV**

सामान्य निर्देश

- सभी प्रश्न अनिवार्य हैं ।
- दिए गए निर्देशों का पालन करते हुए सभी प्रश्नों को हल करें ।

ASSIGNMENT

प्रश्न - 1. स्वदेश का हमारे जीवन में क्या महत्व है? अपने देश के प्रति विद्यार्थियों के पाँच प्रमुख कर्तव्य लिखिए। प्रत्येक कर्तव्य को एक-दो वाक्यों में स्पष्ट कीजिए।

प्रश्न - 2. पाठ 1 से 5 तक से संबंधित कुल 20 बहुविकल्पीय प्रश्न तैयार कीजिए, जो पाठ्य पुस्तक (मल्हार भाग 3) के अभ्यास प्रश्न में न दिए हों। प्रत्येक प्रश्न में चार विकल्प दीजिए और सही उत्तर भी लिखिए।

प्रश्न - 3. पाठ्य पुस्तक के आधार पर कबीर के दोहों में व्यक्त सामाजिक बुराइयों, आडंबरों और मानवीय गुणों से संबंधित विचारों को उदाहरण सहित समझाइए।

प्रश्न - 4. 'प्रदूषण मुक्त दीपावली' विषय पर लगभग 200 शब्दों में अनुच्छेद लिखिए। इसमें पर्यावरण संरक्षण, ध्वनि प्रदूषण और सुरक्षित तरीके से त्योहार मनाने के उपायों का उल्लेख कीजिए।

प्रश्न - 5. गयाप्रसाद शुक्ल, भीष्म साहनी, दुष्यंत कुमार, भारतेन्दु हरिश्चंद्र एवं कबीरदास जी का संक्षिप्त जीवन परिचय, साहित्यिक योगदान एवं प्रमुख रचनाएँ फोल्डर के रूप में तैयार कीजिए।

नोट- फोल्डर बनाने हेतु A4 साइज के रंगीन पेपर का प्रयोग करें या रंगीन चार्ट पेपर को A4 साइज में मोड़कर फोल्डर तैयार करें।

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME: COMPUTER SCIENCE

CLASS & SECTION: VIII

SUBJECT TEACHER NAME: Mr KULDEEP

INSTRUCTIONS:

- Write the answers in your own words in the homework notebook; do not copy from the internet or AI tools.
- Make the presentation on a computer and save it with the file name given in the project work.
- Submit the notebook and the presentation file on the day the school reopens.

ASSIGNMENT

TOPIC 1: INTERNET AND CYBER SAFETY

Q1. Short Answer (3–4 lines each)

- a. What is the Internet? Give two uses of the Internet in daily life.
- b. Name any three cyber threats and write one line about each.
- c. What is a strong password? Write any three rules to create one.
- d. Write two advantages and two disadvantages of the Internet.

TOPIC 2: MS EXCEL

Q2. Short Answer (3–4 lines each)

- a. What is a spreadsheet? Name any two spreadsheet software.
- b. Explain the terms cell, cell address, row and column.
- c. Write the formulas to find the sum and average of cells B2 to B6.
- d. Differentiate between a workbook and a worksheet.

PROJECT WORK:

Title: Staying Safe on the Internet (MS PowerPoint Presentation)

Practical Tasks

1. Open MS PowerPoint and prepare a presentation of 5 slides.
2. Slide 1: Title of the topic with your name, class and roll number.
3. Slide 2: What is the Internet?
4. Slide 3: Cyber threats and safety tips (add at least two pictures).
5. Slide 4: Advantages and disadvantages of the Internet.
6. Slide 5: Conclusion – how should we stay safe on the Internet?
7. Apply a design theme, change the font and colour of the headings, and add at least one transition or animation.
8. Save the file as
classVIII_Name_SCHOOLNo.pptx

Note: Keep the text on each slide short (3–4 points) and write it in your own words.

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME:	
CLASS & SECTION: VIII A, B, C	SUBJECT TEACHER NAME: Mr. Manohar Raj
INSTRUCTIONS: <ul style="list-style-type: none">• Written Assignment - Complete all written work neatly in your fair notebook.• Project - Complete all written work neatly in project file.	

ASSIGNMENT

CHAPTER NO.: Chapter 1 - World Geography: Some Glimpses of Part II book

1. Written Assignment

Solve Chapter 1 - World Geography: Some Glimpses of Part II book.

Prepare the following questions and activities:

30 Multiple-Choice Questions (MCQs)

10 Fill in the Blanks

10 True or False Statements

5 Match the Following

10 Map Work Questions

10 Short Questions Answer

5 Long Questions Answer

Instructions:

Complete all written work neatly in your fair notebook.

PROJECT WORK:

Prepare one project report covering SST books (Part I).

Your project report must include the following points:

What have you learnt from the book?

Which is your favourite topic from the book, and Write a brief description about the topic?

Instructions:

Complete all written work neatly in project file.

Write the project report in a proper format with a suitable title.

Use maps, diagrams, pictures, and examples wherever required.

Ensure that all work is complete, accurate, and submitted after the holidays.

Wishing you a happy, enjoyable, and productive Autumn Break!

Add a clear submission deadline

Clarify the chapter task wording

Note:

Complete all work neatly

SAINIK SCHOOL CHITTORGARH
AUTUMN VACATION HOLIDAY HOMEWORK

SUBJECT NAME: MATHEMATICS

CLASS & SECTION: VIII A,B,C

SUBJECT TEACHER NAME: AMIT KUMAR JHA

INSTRUCTIONS:

- **Notebook:** Maintain a separate Holiday Homework Notebook (Interleaf or Ruled) for Part A.
- **Precision:** All geometrical figures, constructions, and graphs must be drawn neatly in pencil with a standard calibrated geometry box.
- **Working Steps:** Every question must show complete step-by-step arithmetic, prime factorisations, long-division brackets, or algebraic identities. Direct answers without working will not receive credit.
- **Project File:** Part B (Project Work) must be compiled in a separate A4 Practical File / Scrap Folder with appropriate sketches and data.
- **Evaluation:** Timely submission upon reopening is mandatory and forms an integral part of internal assessment.

ASSIGNMENT

CHAPTER 1: A SQUARE AND A CUBE

1. Using prime factorisation, determine whether 7056 and 9216 are perfect squares. If so, find their respective square roots.
2. Find the smallest natural number by which 2925 must be:
 - Multiplied so that the resulting product becomes a perfect square. Also find the square root of the new number.
 - Divided so that the resulting quotient becomes a perfect square. Also find the square root of the quotient.
3. Find the least square number that is completely divisible by each of the numbers 8, 15, and 20.
4. Calculate the square roots of the following decimal numbers using the long division method:
 - 53.29
 - 0.000529
5. A ceremonial drill ground at Sainik School Chittorgarh has an area of 9801 sq. m. Cadets stand in a solid square formation where the number of rows equals the number of cadets in each row. How many cadets are in the front rank?
6. An officer arranges 18,265 cadets in a solid square formation on the parade ground. After forming the complete square, 40 cadets are left over. Calculate the number of cadets in each row.
7. Find the least number of 6 digits that is a perfect square. Also find its square root.

CHAPTER 2: POWER PLAY (EXPONENTS & POWERS)

1. Simplify and express the final result with positive exponents:
 - $(\frac{2}{3})^{-2} \times (\frac{2}{3})^{-3}$
 - $[(-\frac{1}{4})^2]^{-3} \times (\frac{1}{2})^{-4}$
 - $(25 \times t^{-4}) / (5^{-3} \times 10 \times t^{-8})$ where $t \neq 0$
2. Evaluate the numerical value of: $(3^{-5} \times 10^{-5} \times 125) / (5^{-7} \times 6^{-5})$.
3. Find the value of the unknown exponent x in each equation:
 - $(\frac{5}{3})^{-4} \times (\frac{5}{3})^{-5} = (\frac{5}{3})^{3x}$
 - $(-3)^{x+1} \times (-3)^5 = (-3)^7$
 - $2^{(2x-1)} = 1 / 8^{(x-3)}$
4. The distance between the Earth and the Sun is approximately 149,600,000,000 m, while the diameter of a ballistic nylon fibre is 0.000028 m. Express both numbers in standard scientific notation ($k \times 10^n$).
5. The mass of an alpha particle is 6.645×10^{-27} kg and the mass of a proton is 1.673×10^{-27} kg. Calculate their total sum and difference in standard scientific notation.

6. A military survey map sheet has an initial thickness of 0.08 mm. If it is folded in half repeatedly, write an exponential formula for its thickness after n folds, and determine its thickness (in cm) after 8 folds.
7. Simplify: $[(2^n \times 2^3) - (2 \times 2^n)] / [2 \times 2^{(n+3)}]$.

CHAPTER 3: A STORY OF NUMBERS (RATIONAL NUMBERS & REPRESENTATION)

1. Verify the commutative and associative properties of addition for: $x = -2/3$, $y = 5/6$, $z = -7/12$.
2. Verify the distributive property of multiplication over addition, $a \times (b + c) = (a \times b) + (a \times c)$, for: $a = -3/4$, $b = 2/3$, $c = -5/6$.
3. Find ten distinct rational numbers strictly lying between $-3/5$ and $3/4$. Show your step method clearly.
4. Represent the following rational numbers on a single, neatly calibrated number line: $-9/4$, $-5/4$, $-1/2$, 0 , $3/4$, $7/4$, $11/4$.
5. Name the specific mathematical property illustrated in each expression:
 - $(-11/17) \times 1 = 1 \times (-11/17) = -11/17$
 - $(-13/19) \times (-19/13) = 1$
 - $2/7 + 0 = 0 + 2/7 = 2/7$
 - $3/8 \times (-5/7) = (-5/7) \times 3/8$
6. The perimeter of an isosceles triangular cross-country running loop is $14 \frac{1}{15}$ km. The unequal base track is $4 \frac{2}{3}$ km. Determine the exact length of each of the two equal running tracks.

CHAPTER 4: QUADRILATERALS

1. The four interior angles of a quadrilateral are in the ratio $2 : 3 : 5 : 8$. Calculate the measure of each angle. Is this quadrilateral convex or concave? Provide a reason.
2. Find the unknown values in the following figures:
 - In parallelogram ABCD, $\angle A = (3x - 10)^\circ$ and $\angle C = (x + 40)^\circ$. Find all four angles.
 - In parallelogram PQRS, adjacent angles are $\angle P = (2x + 25)^\circ$ and $\angle Q = (3x - 5)^\circ$. Find the value of x .
 - In kite DEFG, diagonal DF perpendicularly bisects EG at point O. If $OE = 5$ cm and $OD = 12$ cm, find side length DE.
3. The diagonals of a rhombus measure 12 cm and 16 cm.
 - Prove geometrically that the diagonals bisect each other at 90° .
 - Calculate the length of each side of the rhombus.
 - Determine its total perimeter and area.
4. In rectangle READ, diagonals RD and EA intersect at O. If $OR = 2x + 4$ and $OE = 3x + 1$, calculate the value of x and the length of diagonal RD.
5. In an isosceles trapezium ABCD, $AB \parallel CD$, $AD = BC$, and $\angle A = 70^\circ$. Determine the measures of angles $\angle B$, $\angle C$, and $\angle D$.

CHAPTER 5: NUMBER PLAY (DIVISIBILITY, PATTERNS & CRYPTARITHMS)

1. Test the divisibility of 304194, 712965, and 108240 by 3, 9, and 11 using divisibility rules (without actual division). Show calculations.
2. If the 6-digit number 47A9B2 is divisible by both 9 and 11, find all possible single-digit values of (A, B) where $A, B \in \{0, 1, 2, \dots, 9\}$.
3. If the 4-digit number 21y5 is a multiple of 9, where y is a single digit, find all possible values of y .
4. Solve the following cryptarithms where each letter represents a distinct digit from 0 to 9:
 - $AB + 37 = 6A$
 - $AB \times 6 = BBB$
 - $SEND + MORE = MONEY$ (Explain the deduction for M, S, and O clearly)
5. Construct a 3×3 Magic Square using digits from 1 to 9 such that every row, column, and diagonal adds up to 15. Explain mathematically why 5 must be in the centre.

CHAPTER 6: WE DISTRIBUTE, YET THINGS MULTIPLY (ALGEBRAIC EXPRESSIONS & IDENTITIES)

1. Multiply the following expressions and combine like terms:
 - $(2x + 5y)(3x - 4y)$
 - $(a^2 + 2b)(a - b^2)$

- $(x^2 - 5x + 6)(2x - 3)$
2. Expand each expression using standard algebraic identities:
- $(3a - 4b)^2$
 - $(2x + 1/(2x))^2$
 - $(4x - 5y)(4x + 5y)$
 - $(2a + 3b - c)^2$
 - $(100 - 3)^2$ using $(a - b)^2$
3. Evaluate the following products using algebraic identities without direct multiplication:
- 103×97
 - 105^2
 - 998^2
 - 1.05×0.95
4. If $x + (1/x) = 7$, find the exact values of: (i) $x^2 + (1/x^2)$ and (ii) $x^4 + (1/x^4)$.
5. If $x - (1/x) = 5$, find the exact values of: (i) $x^2 + (1/x^2)$ and (ii) $(x + 1/x)^2$.

PART B: MATHEMATICS PROJECT WORK (PRACTICAL FILE)

Cadets are required to choose ANY ONE of the following two project options. The project must be completed neatly in an A4 Practical File / Scrap Folder with appropriate drawings, data, and calculations.

PROJECT OPTION 1: Symmetry, Geometry, and Strategic Defense of Chittorgarh Fort

- **Theme & Scope:** Practical application of Chapters 1, 4, and 6 (Quadrilaterals, Square Dimensions, and Algebraic Modeling).
- **1. Cover Page:** Include School Crest, Cadet Name, Roll No., House, Subject, Academic Session, and Title.
- **2. Geometric Fortification Mapping:** Identify and sketch defensive quadrilaterals used in fort bastions (Burj), parapets, and gates (Pol). Identify parallelograms, rhombuses, and trapeziums. Mark parallel lines and transverse angles.
- **3. Geometry of Vijay Stambha:** Vijay Stambha stands on a square plinth. Taking base side = 14 m and height = 37 m, calculate base perimeter, plinth surface area, and scale ratio between base width and total tower height.
- **4. Defense Trench Algebraic Model:** A security trench surrounding an outpost has length $(4x + 6)$ m and width $(2x + 3)$ m. Derive an algebraic polynomial for its area. Calculate the cost to level the trench at ₹60 per sq. m when $x = 8$ m.
- **5. Cadet Reflection:** Write a 100–150 word summary on how geometric symmetry and thick masonry angles offered defensive advantages against artillery sieges.

PROJECT OPTION 2: Cadet Daily Routine – Time, Calorie & Energy Budget

- **Theme & Scope:** Practical application of Chapters 2, 3, and 6 (Rational Numbers, Exponents, and Algebraic Formulations).
- **1. 24-Hour Time Budget:** Tabulate daily hours spent on PT, Academics, Drill, Self-study, Games, and Sleep as fractions of 24 hours in lowest terms. Verify that the sum of all fractions equals 1.
- **2. Energy & Steps in Powers of Ten:** Record or estimate daily walking/running steps over 5 active days. Express total distances covered in metres using standard scientific notation ($k \times 10^n$).
- **3. Mess Calorie Polynomial:** If morning mess breakfast provides $(12x + 150)$ kcal, lunch provides $(25x + 300)$ kcal, and dinner provides $(20x + 200)$ kcal, write an algebraic identity for total daily energy intake. Calculate the calorie intake when $x = 40$.
- **4. Cadet Reflection:** Write a 100–150 word reflection on the role of quantitative measurement and discipline in military training.

Note:

EVALUATION RUBRIC

Assessment Component	Criteria & Evaluation Focus
Punctuality & Discipline	Timely submission upon return from vacations, compliance with instructions
Chapter 1 & 2 Problem Sets	Accuracy of prime factor trees, long division square roots, exponents, scientific notation
Chapter 3 & 4 Problem Sets	Rational number properties, calibrated number lines, geometric proofs of quadrilaterals
Chapter 5 & 6 Problem Sets	Cryptarithm deduction steps, divisibility proofs, algebraic expansions & evaluations
Project Work (Practical File)	Technical sketches, real-world mathematical modeling, neatness, structured documentation

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOLIDAY HOMEWORK : 2026-27

INFORMATION

SUBJECT NAME: SCIENCE

CLASS & SECTION: VIII A,B,C

SUBJECT TEACHER NAME: BHUPENDRA BIHARI VYAS

INSTRUCTIONS:

Format: The project must be compiled in an A4-size practical/project file with one-side ruled sheets.

Handwriting: The write-up must be neatly handwritten. Headings should be highlighted using black ink, while running text should be in blue ink.

Illustrations: Draw neat, labeled pencil diagrams or paste relevant printouts/photographs on the blank (left-hand) pages facing the respective written content.

ASSIGNMENT TOPIC : MICROORGANISMS "FRIENDS OR FOES"

SECTION I: INTRODUCTION TO MICROORGANISMS

- Definition and Discovery of Microbes
- Major Groups of Microorganisms
 - Bacteria
 - Fungi
 - Protozoa
 - Algae
 - Viruses (Borderline of Living and Non-Living)

SECTION II: MICROORGANISMS AS "FRIENDS" (BENEFICIAL ROLES)

- Commercial and Domestic Uses
 - Curd and Cheese Making (Lactobacillus)
 - Bread and Baking Industry (Yeast)
 - Fermentation Process and Alcohol Production
- Medicinal Applications
 - Production of Antibiotics (Penicillin, Streptomycin)
 - Vaccines and Immunization
- Agricultural and Environmental Benefits
 - Biological Nitrogen Fixation (Rhizobium and Blue-Green Algae)
 - Decomposition of Organic Waste and Manure Formation

SECTION III: MICROORGANISMS AS "FOES" (HARMFUL ROLES)

- Disease-Causing Microorganisms (Pathogens)
- Common Microbial Diseases in Humans
 - Modes of Transmission (Air, Water, Food, Vectors)
 - Preventative Health Measures
- Microbial Diseases in Animals and Plants
 - Anthrax in Cattle
 - Citrus Canker, Rust of Wheat, and Yellow Vein Mosaic

SECTION IV: FOOD SPOILAGE AND PRESERVATION

- Causes and Signs of Food Spoilage
- Methods of Food Preservation
 - Chemical Preservatives
 - Salting and Sugar Preservation
 - Use of Oil and Vinegar
 - Heat and Cold Treatments (Boiling, Freezing, Pasteurization)
 - Airtight Storage and Nitrogen Packaging

SAINIK SCHOOL CHITTORGARH

AUTUMN VACATION HOMEWORK -2026-27

SUBJECT NAME : SANSKRIT

CLASS & SECTION: VIII

SUBJECT TEACHER NAME : P CHANDRASEKHARAN

ASSIGNMENT

1. भू धातु अस् धातु कृधातूनां रूपाणि लृट् लोट् एवं विधिलिङ् लकारेषु लिखित्वा दशवाक्यानि रचयत ।
2. इदं शब्दस्य त्रिषु लिङ्गेषु रूपाणि लिखित्वा प्रत्येक कारके तेषां शब्दार्थान् लिखत ।
3. सुभाषितरसंपीत्वा जीवनं सफलंकुरु पाठे विद्यमानान् श्लोकान् लिखित्वा तेषां श्लोकानां हिन्धां भावार्थः लिखत ।
4. डिजीभारतं अधिकृत्य एकंअनूच्छेदं संस्कृतभाषायां लिखत ।