

SAINIK SCHOOL KAZHAKOOTAM
SUMMER VACATION ASSIGNMENT 2026

CLASS:VII

SNO	SUBJECT	TOPIC/ACTIVITY
1	ENGLISH	<p>Prepare a PowerPoint presentation on the chapter allotted from the English textbook <i>Poorvi</i>. The presentation must include the following:</p> <p>1. Introduction 2. A short note on the chapter 3. Theme 4. Summary 5. About the author 6. Relevant pictures and photographs 7. Videos (if applicable) 8. Any other information you find interesting and worth sharing. 9. Presentation should be neat, creative, and well-organized.</p> <p>Note: Conduct a brief session in the class based on your presentation after the vacation.</p>
2	HINDI LOWER	I अनुच्छेद लेखन 1 मेरा देश भारत 2 अनुशासन का महत्व 3 समाचार पत्र II गिनती 1to100 III दस मुहावरे और उनके अर्थ
3	HINDI HIGHER	बारह खड़ी लेखन और हर एक अक्षर से पाँच शब्द निर्माण। अपने गांव के बारे में एक चित्र सहित प्रस्तुति तैयार कीजिए
4	MALAYALAM LOWER	Write 50 Malayalam words and their equivalent English words.
5	MALAYALAM HIGHER	Explain the details of the ten sacred flowers (Dashapushpangal) with pictures
6	MATHS	Cross word puzzle on arithmetic expressions and word problems on arithmetic expressions
7	SCIENCE	<p>1. Construct a simple electric circuit using a cell, connecting wires, a switch, and a bulb. Draw a neat and properly labelled circuit diagram. Write a detailed report including the aim, materials required, procedure, observation, result, and conclusion. Also mention the precautions to be taken while setting up the circuit.</p> <p>2. Project Work: "The Bridge to Adulthood" Interview 10 peers To collect data on the physical, emotional, and social changes experienced during adolescence.</p> <p>3. Find out 10 inspirational stories of great scientists who overcame significant challenges, persevered through failure, and changed the world with their inventions and discoveries.</p>
8	SOCIAL SCIENCE	Locate and mark all the states of India and their capitals on the political map of India

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CLASS:VIII

SNO	SUBJECT	TOPIC/ACTIVITY
1	ENGLISH	Identify 50 new words from the Class 8 English textbook. Write their meanings, arrange them in alphabetical order, and compile them into a mini dictionary.
2	HINDI LOWER	बारह खड़ी लेखन और हर एक अक्षर से पाँच शब्द निर्माण। गिनती १से १००तक, एक त्योहार, एक खेल, एक लेखक, एक पर्यटन स्थल, समय का महत्व। इन विषयों पर एक अनच्छेद लिखिए
3	HINDI HIGHER	1 25 मुहावरों का अर्थ लिखकर वाक्य में प्रयोग कीजिए ॥ अनुच्छेद लेखन 1 बेरोज़गारी की समस्या 2 नारी सशक्तिकरण 3 नयी शिक्षा प्रणाली
4	MALAYALAM LOWER	Find 50 new Malayalam words from the text and write their English and Hindi equivalents.
5	MALAYALAM HIGHER	Read a Malayalam book and prepare book review. or Make a brochure on World Environment Day.
6	MATHS	NCERT exemplar questions of VSA and L A type based on first chapter A Square and A Cube.
7	SCIENCE	I.)1)Define force and pressure 2)Types of forces: contact & non-contact (with examples) 3)Pressure formula and unit 4)Write 5 examples of force in daily life 5)Why do camels have broad feet? 6)Define friction 7)Types of friction: static, sliding, rolling 8)Advantages and disadvantages of friction II.)Project:" The "Kitchen Fermentation" Lab " Conduct an experiment to observe how temperature affects the rate of fermentation in milk using a curd starter (Lactobacillus).
8	SOCIAL SCIENCE	Slogan Making Activity on Sustainable Development and Resource Conservation

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CLASS:IX

SNO	SUBJECT	TOPIC/ACTIVITY
1	ENGLISH	Write 10 questions to interview your grandparents on your visit. The questions may be enquiring their life, childhood, things that they miss, school days, friendships etc. Interview them with the questions, take a short video of the same about 3-4 min long and send to your Subject teacher via mail/WhatsApp.
2	HINDI	1 50 मुहावरों का अर्थ लिखकर वाक्य में प्रयोग कीजिए II अनुच्छेद लेखन 1 स्वच्छता ही सेवा 2 बढ़ता भ्रष्टाचार 3 नारी शिक्षा
3	MALAYALAM	Write the lesson "Amma" in the form of a screenplay.
4	MATHS	10 questions given as assignment. 1. Draw a square root spiral on a chart paper/Make a beautiful square root spiral. 2. Simplify $(3\sqrt{7})/(\sqrt{5+\sqrt{2}})-(5\sqrt{5})/(\sqrt{2+\sqrt{7}})+(2\sqrt{2})/(\sqrt{7+\sqrt{5}})$. 3. If $x=\sqrt{(17-12\sqrt{2})}$, then find x^2+1/x^2 . 4. If $a=(\sqrt{5-\sqrt{3}})/(\sqrt{5+\sqrt{3}})$, $b=(\sqrt{5+\sqrt{3}})/(\sqrt{5-\sqrt{3}})$ find the value of $(a^2-ab+b^2)/(a^2+ab+b^2)$. 5. If $x=3+2\sqrt{2}$, then find the value of $[(x-1/x)]^3$. 6. Define irrational numbers and explain the four primary properties that distinguish them from rational numbers. 7. Based on your study of the Sulba Sutras (ancient Indian Sanskrit texts dating from roughly 800-500 BCE) provide five key points reflecting your understanding of them. 8. Why should I study irrational numbers? Give three practical uses for them. 9. How can you prove $\sqrt{5}$ is irrational theoretically. 10. Insert five irrational numbers between $7/11$ and $5/7$.
5	SCIENCE	I. Part A: Definitions (Write with suitable examples) 1) Distance and Displacement 2) Speed and Velocity 3) Acceleration 4) Force and Inertia 5) Mass and Weight 6) Work, Energy, Power Part B: Application-Based Questions 1) Why do passengers fall forward when a bus suddenly stops? 2) Why is it easier to push an empty cart than a loaded one? 3) Why do we feel lighter on the Moon? 4) Why do we use seat belts in vehicles? II. Trash - to - cell Build an animal cell using zero new materials . If you didn't find it in the recycling bin / the waste bin, you can't use it.

6	SOCIAL SCIENCE	1. "Create a creative album illustrating the structure of the atmosphere and key elements of climate, including temperature zones, world pressure belts, world permanent winds and types of rainfall." 2. Assignment: "Exploring the Scope of Geography and its Interconnection with real life"
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CLASS:X

SNO	SUBJECT	TOPIC/ACTIVITY
1	ENGLISH	<p>Cadets are required to compose a letter addressed to their English teachers. The content of the letter should reflect a piece of literary creativity, such as a poem, short story, or any expressive writing, based on one or more of the following themes:</p> <p>Personal experiences during the vacation Expectations or concerns regarding the upcoming academic year Expression of a meaningful thought or idea</p> <p>The letter should demonstrate originality, clarity of thought, and effective use of language.</p> <p>Cadets must ensure that the letter is sent via post to the teacher's campus address and reaches before the end of the vacation.</p>
2	HINDI	<p>अपने मनपसंद समसामयिक दस विषयों पर अनुच्छेद लिखाए। औपचारिक पत्र के पांच नमूने प्रस्तुत कीजिए। नवयुवकों को सेना में भर्ती होने की प्रेरणा देते हुए स्लोगन एवं विज्ञापन तैयार करें। ग्रीष्मावकाश के समय के घरेलू जीवन पर एक कहानी या डायरी लिखिए</p>
3	MALAYALAM	<p>Make an album of 10 Malayalam authors. (Picture & Biography)</p>
4	MATHS	<p style="text-align: center;">https://drive.google.com/file/d/1tftvtYbdpD2-JmkMqUkTomTK7GRMG3B9/view?usp=drive_link</p>
5	SCIENCE	<p>I.) Draw neat and properly labeled ray diagrams for the following: Concave Mirror – for different positions of the object Convex Mirror – for different positions of the object Convex Lens – for different positions of the object Concave Lens – for different positions of the object For each case, clearly mention: Position of the image Nature of the image (real/virtual, erect/inverted) Size of the image (magnified/diminished/same size) .</p> <p>II.) Just go through the chapters 1 to 4 and find out the name and chemical formula of all the substances mentioned in the chapters.</p> <p>III) Construct two 3D models using everyday materials to illustrate the stages of cell division—one model for mitosis and one for meiosis. Clearly label each stage and highlight the key differences between the two processes.</p>
6	SOCIAL SCIENCE	<p>1. Assignment: "Impact of International Conflicts on India's Energy Security" 2. Visit the nearest Bank in your locality and learn about the functions of Bank and how a financial institution influences in the daily life of the people</p>

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CLASS:XI

SNO	SUBJECT	TOPIC/ACTIVITY
1	ENGLISH	Cadets will conduct an in-depth interview with a grandparent or an elderly relative to author a comprehensive biography. Format Requirements: (a) The biography must follow the five-chapter format discussed in class. (b) Each chapter must contain a minimum of 400 words. (c) The project is to be completed in a dedicated 50–60 page notebook.
2	MATHS	Exercise and miscellaneous questions from Chapters 1 and 2.
3	PHYSICS	Physical World and Measurements 25 MCQs and A Work Sheet
4	CHEMISTRY	MOLE CONCEPT-15 MCQ questions . Define:-ATOMIC MASS,MOLAR MASS FORMULA MASS with example
5	BIOLOGY	1.25 Multiple Choice Questions from Chapter Cell structure and function 2. 10 Exercise questions from Cell- structure and function
6	COMPUTER SCIENCE	1. Write short notes on various external memory devices, explaining their types, features, and uses with suitable examples. 2. Write a short note on various programming languages, explaining their types and uses with suitable examples.

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CLASS : XII

SNO	SUBJECT	TOPIC/ACTIVITY
1	ENGLISH	<p>Cadets are required to write their autobiography, reflecting on their past not as a mere sequence of random events, but as meaningful experiences that have shaped their character, values, and aspirations. The autobiography should follow a thematic structure rather than a strictly chronological narration. They must organise their reflections based on themes emerging from the First and Second Quadrants discussed during Module One of the Communication and Personality Development Workshop.</p> <p>Format Requirements:</p> <p>(a) Follow the specific structural blueprint (the four-chapter format discussed in class)</p> <p>(b) Each chapter must contain a minimum of 500 words.</p> <p>(c) The project is to be completed in a dedicated 50–60 page notebook.</p>
2	MATHS	<p>Cadets are given last ten 5 PYQ of CBSE on Chapters 1, 3 and 4 in pdf format.</p>
3	PHYSICS	<p>Completing the practical rough record for class XII</p>
4	CHEMISTRY	
5	BIOLOGY	<p>Solving Previous Year questions from Chapter Sexual reproduction in flowering plants 2. 5 Exercise questions from Sexual reproduction in flowering plants</p>

6	COMPUTER S	<p>Write the above programs in Python using Functions:</p> <ol style="list-style-type: none">1. Write a program that converts a given temperature from Celsius to Fahrenheit and Fahrenheit to Celsius using the respective formula. – Temperature Conversion2. Write a program to calculate the roots of a quadratic equation ax^2+bx+c using the quadratic formula. Handle imaginary roots appropriately. - Roots of a Quadratic Equation3. Write a program to perform various operations (append, insert, delete, and sort) on a list of integers entered by the user.- List Operations4. Write a program to check whether a given string is a palindrome, ignoring spaces and case sensitivity.5. Write a program to count the number of vowels, alphabets, digits and special symbols in a given sentence entered by the user.6. Write a program to reverse a given string without using built-in reverse functions.7. Write a program to check whether a given number is an Armstrong number. (Sum of Cubes of digits is same as number).8. Write a Python program to find the second largest number in a list without
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