

ST. XAVIER'S SCHOOL

DHARAHARA, BALLIA (U.P.)

SUMMER ASSIGNMENT 2025 – 2026

CLASS IX

SUBJECT		TOPIC
ENGLISH	Make a Project file on the topic:	
	→	Section 1: Grammar Portion
		Modal Verb Chart: Create a table with columns for Modal Verb, Meaning, Example Sentence, and Function. Fill it with at least 10 modals.
	→	Section 2: Figures of Speech/Literary Devices
		Define each literary device (Simile, Metaphor, Personification, Alliteration, Irony, Assonance, Consonance, Oxymoron, Repetition, Pun, Imagery).
		Provide one example from Beehive or Moments.
		Write neatly with definition, example, and explanation.
	→	Section 3: Diary Entries on War and Peace
		Write 5 diary entries (120–150 words each) on the theme of War and Peace.
		Impact of War.
		Dream of Peace.
		War's Destruction.
		Peaceful Moments.
		Hope for Unity.

		Reflect personal thoughts, emotions, or imagined experiences related to war (e.g., conflict's impact) or peace (e.g., harmony, unity).
	→	Section 4: Paragraph Writing
		Write 5 paragraphs (120–150 words each) on topics given below;
		Topics: Lost and Found, Summer Camp, Event (e.g., Annual Function or Independence Day), Competition, Public Issue (e.g., Water Conservation).
SCIENCE	Make a Project file on the topic:	
PHYSICS	→	Make a Project on "Use of Science & Technology in our daily life."
	→	Solve all the problems of NCERT - Chapter 1.
BIOLOGY	→	1.Solve the questions given on the end of the first chapter (Biology) in NCERT.
	→	2. Draw the well labelled diagram of Plant /Animal Cell on chart paper.
	→	3. Incomplete notebooks also must be completed
	→	Write down the following activities with object, principle, method, diagram and precautions.
	→	4. Activity - Put the dried raisin in pure water
	→	5. Activity -Put a fresh grape in pure water
CHEMISTRY	→	Make a Project file on "Exploring States of Matter and Changes in State".
SOCIAL SCIENCE	Make a Project file on the topic:	
	→	Disaster Management
HINDI	→	किन्हीं 10 विज्ञापनों का चित्र अपनी उत्तर पुस्तिका में लिखकर, उनसे होने वाले एक - एक लाभ -हानि लिखिए।

MATHEMATICS	Make a Project file on the topic:	
	→	Chapter 1: Number Systems - Rational and Irrational Numbers: - Find five rational numbers between $\frac{2}{5}$ and $\frac{3}{7}$. - Represent 5 on the number line. - Classify the following numbers as rational or irrational: $3.14, \frac{22}{7}, 7, 0.333 \dots, 2 - 3$. - Simplify: $(3 + 3)(2 + 2)$ - Rationalize the denominator of $\frac{1}{5-2}$. - Laws of Exponents: - Simplify: $(2^3)^2 \times 2^{-4}$. - Evaluate: $(64)^{1/2} + (125)^{1/3}$. - Simplify: $\frac{3^5}{3^{-2} \times 3^3}$. - Solve for x: $2^{x-1} = 16$.
	→	Chapter 2: Polynomials - Basic Concepts: - Identify the degree of the polynomial: $5x^3 - 4x^2 + 7x - 12$. - Classify the following polynomials as linear, quadratic, or cubic: $2x + 5, x^2 - 3x + 2, 4y^3 - y$. - Find the value of the polynomial $p(x) = x^2 - 5x + 6$ at $x = 2$ and $x = -1$. - Remainder and Factor Theorem: - Find the remainder when $x^3 + 3x^2 - 5x + 8$ is divided by $x - 2$. - Check whether $(x + 3)$ is a factor of $2x^3 + 5x^2 - 7x - 6$. - Find the value of k if $(x - 1)$ is a factor of $x^2 + kx - 3$. - Factorization of Polynomials: - Factorize: $x^2 + 7x + 12$. - Factorize: $4x^2 - 9y^2$. - Factorize: $a^3 - 27$. - Factorize: $x^2 + 52x + 8$.
	→	Chapter 3: Coordinate Geometry Cartesian Plane: - Plot the following points on a graph paper: A(2,3), B(-1,4), C(-2, -3), D(3, -2), E(0,5), F(-3, 0). - Write the coordinates of the vertices of a triangle formed by any three of the plotted points. - Identify the quadrant or axis in which the following points lie: (5, -3), (-2, -5), (4,2), (-3,0), (0, -4).

		2. Applications: - Find the coordinates of a point that is equidistant from (2,2) and (6,2) and lies on the x-axis. - Describe the location of your school and your home using the concept of coordinates, taking a landmark in Ballia as the origin.
	→	Chapter 4: Linear Equations in Two Variables 1. Introduction to Linear Equations: - Check if (3,2) is a solution of the equation $2x - 3y = 0$. - Write two solutions for the equation $3x + 2y = 12$. - Express the linear equation $2x = 5y - 7$ in the form $ax + by + c = 0$ and indicate the values of a, b, and c. 2. Graph of a Linear Equation in Two Variables: - Draw the graph of the equation $x + y = 5$. Find two solutions from the graph. - Draw the graph of the equation $y = 3x$. - Draw the graph of the equation $x = -4$.
INFORMATION TECHNOLOGY	Complete the following questions in a Project file	Q.1-What do you mean by Communication?
		Q.2-Why communication skill is required?
		Q.3- Write all the elements of Communication cycle?
		Q.4-what are the 7Cs in reference to communication?
		Q.5- What do you mean by Verbal communication?
		Q.6-What is the non-verbal communication? Name any four ways of non- verbal communication?
		Q.7-What is visual communication? Write advantage and disadvantage of visual communication?
		Q.8-Write all eight basic Parts of speech in English Grammar?
		Q.9-What are the advantages of Asking Question?
		Q.10-Name three basic types of sound in English Language.
		Q.11-Name two types of Greetings.

		Q.12-What is 5W+1H Method for Asking Question?
		Q.13-What do you mean by paralanguage?
		Q.14-What do you mean by punctuation? What is the sign and use of following punctuation?
		a) Full Stop b) Comma c) Question mark d) Exclamation
		Q.15-Draw the components of Visual Communication.