



DELHI PUBLIC SCHOOL SIDDHARTH VIHAR

(under the aegis of DPS Society, East of Kailash)

From the Principal's Desk

"Explore the world with your mind wide open,
for every question asked is a step toward
a new discovery."

Dear Young Learners,

As the holiday season begins, I wish each
one of you a joyful, peaceful, and
meaningful break. This is a time to relax,
reflect, and truly enjoy the company
of your loved ones.

Summer vacation is a wonderful
opportunity to distress, rejuvenate,
and also engage in meaningful
activities that enrich your mind and
soul. As Holidays are not just about
rest—they're about togetherness.
Spend quality time with your parents,
play with your siblings, and most
importantly, cherish the company
of your grandparents. Listen to their
stories, learn from their experiences,
and show them how much you care.
These simple moments of love and
connection are the true essence
of family life.





Use this time to step away from screens and get involved in real conversations and shared activities. Make the most of this precious time by spending quality moments with your family, exploring new interests, and learning something new each day. Remember, learning doesn't only happen in classrooms—it happens in kitchens, gardens, books, and even during thoughtful conversations with your loved ones. And while you are enjoying your break, do not forget your responsibility as a student. **Complete your holiday projects independently, with sincerity and creativity.** It's a wonderful opportunity to explore, think critically, and express yourself. Seek help only when truly needed, but let the ideas and efforts be your own.

Let this summer be a time of joy, bonding, learning, and reflection. I look forward to seeing all of you after the break—energized, wiser and full of stories to share.

Dear Parents,

This summer, let us work hand-in-hand to ensure our children use their time productively. Encourage them to take up hobbies, read regularly, and engage in daily household responsibilities. Help them develop habits of self-discipline, kindness, and gratitude. Most importantly, motivate them to complete their holiday homework with their own efforts, instilling a sense of responsibility and ownership in their work.

Warm Wishes,

Ms. Vandana Midhaa

Principal

"The world is full of wonders waiting to be understood dare to ask, learn, and explore beyond the known."

Stay healthy, happy, and blessed!



DELHI PUBLIC SCHOOL, SIDDHARTH VIHAR

(Under the aegis of the Delhi Public School Society, New Delhi)

Affiliated to CBSE | Affiliation Number: 2132884 | School Code: 61164



SUMMER HOLIDAY HOMEWORK

CLASS XI SESSION 2025-26

ENGLISH	Topic of Project	Time Travel Tales – A Creative Fusion of Art and Science"
	Learning Objective with competency	To explore and understand the core concept of "The Adventure" through art, imagination, and integration with science and history.
	Guidelines for the project	Create a visual storyboard or comic strip depicting Professor Gaitonde's journey into the parallel world, blending Indian history, alternate realities, and scientific theories (like Catastrophe Theory or Quantum Theory). Choose any medium: Hand-drawn comic strip, Digital storyboard, Collage with historical & scientific symbols, Mini graphic novel (5–7 pages).
	Description of Project	Include- Gaitonde's shift from the real to the alternate world, Maratha rule in 20th-century India, Visual explanation of the scientific theory behind parallel universes. Reflection: Write a 100–150-word note on what you learned and how art helped you understand the concept.
	Assessment Criteria	Assessment will be done based on Creativity, originality and understanding of the topic.
PHYSICS	Topic of Project	1. Mechanics Projects (Basic Knowledge of physics) - Investigate how factors like length, mass, and angle of release affect the period of a simple pendulum. - Create experiments demonstrating Newton's three laws of motion, e.g. using a trolley on a track to show inertia, acceleration & action-reaction pairs. - Explore the physics behind projectile motion by launching different objects and analysing their trajectories. - Examine the effects of friction by sliding various materials across different surfaces and measuring the forces involved. - Investigate the efficiency of simple machines like levers, pulleys, and inclined planes by calculating the work input and output. 2. Electromagnetism Projects (Basic Knowledge of physics) - Construct a basic motor using wires, a magnet, and a battery, and explore how electromagnetic forces cause rotation. - Map out the magnetic field around different shapes of magnets using iron filings or a compass.

		• Design a simple transformer to understand how voltage is increased or decreased in an AC circuit. • Set up an experiment to observe how moving a magnet through a coil generates an electric current. • Create an electromagnet and explore how factors like the number of coils and the strength of the current affect its magnetic field. 3. Optics Projects (Basic Knowledge of physics) • Investigate how convex and concave lenses bend light and experiment with creating images at different focal lengths. • Build a periscope and study the principles of reflection and refraction that allow it to work. • Use a prism to split white light into its component colours and explore the factors that affect the dispersion of light. • Study how light behaves when it passes from one medium to another and under what conditions total internal reflection occurs. • Build a simple model to understand how lenses in the eye focus light onto the retina and explore common vision problems like myopia & hyperopia. 4. Thermodynamics Projects (Basic Knowledge of physics) • Create a basic model of a heat engine, such as a Stirling engine, to understand how heat energy is converted into mechanical work. • Compare conduction, convection, and radiation by setting up experiments to see how different materials and conditions affect heat transfer. • Demonstrate the first or second law of thermodynamics with experiments involving heat transfer and energy conservation. • Determine the specific heat capacity of various substances by heating them and measuring the temperature change. • Test different materials to see how well they insulate against heat and investigate which is the most effective. 5. Modern Physics Projects (Basic Knowledge of physics) • Explore how light of different wavelengths causes electrons to be emitted from a metal surface, illustrating the quantum nature of light. • Design experiments to measure the half-life of radioactive materials or study the radiation types emitted by different sources. • Create a thought experiment or model to explain the basics of Einstein's theory of relativity, such as time dilation or the equivalence of mass and energy. • Look into how particles can pass through potential barriers that they seemingly shouldn't be able to, a key concept in quantum mechanics.
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		Conduct experiments to show how light can behave as a wave and particle, depending on the experimental setup.
	Learning Objective with competency	Competency Areas Addressed: - Scientific Inquiry: Designing experiments, collecting and analysing data, and drawing conclusions. - Critical Thinking: Evaluating evidence, identifying assumptions, and making reasoned judgments. - Communication: Presenting research findings in a clear and concise manner. - Problem-Solving: Applying physics principles to real-world situation
	Guidelines for the project	Project Structure - Introduction: Briefly introduce the project topic and its relevance. - Aim/Objective: State the specific goal of the project - Theory: Explain the relevant physics principles and concepts. - Experimental setup: Describe the equipment and material used in the experiment. - Methodology: Explain the procedure followed to collect data. - Observation & Results: Present the collected data in a clear and organized manner. - Analysis: Analyse the data and interpret the results in relation to the physics principles. - Conclusion: Summarize the main findings of the project and discuss any limitation or area for future research. - References: Cite all sources used in the project. Only Printed report to be submitted
	Description of Project	A physics investigator project for class XI typically involves conducting a specific experiment, investigating a particular phenomenon or building a model to demonstrate a scientific principle. The project aims to deepen understanding of physics concepts through practical application. It's an opportunity to explore topics beyond the textbook.
	Assessment Criteria	On the basis of all points mentioned in the description part. CBSE assessment criteria for biology project: (By external board examiner) - Content (40%): Depth, accuracy, and experimental design. - Presentation (30%): Clarity, organization, and visual appeal. - Scientific Skills (30%): Experiment design, data analysis, critical thinking. Includes components like cover page, index, introduction, methodology, conclusion, and references.
CHEMISTRY	Topic of Project	INVESTIGATORY PROJECT (ANY ONE TOPIC) Comparative study of the rate of fermentation of the following materials: wheat flour, gram flour, potato juice, carrot juice, etc.

		Extraction of essential oils present in Saunf (aniseed), Ajwain (Carum), Illaichi (cardamom).
	Learning Objective with competency	Learning Objectives: 1. Apply scientific principles*: Students will apply chemical principles to investigate a real-world problem or phenomenon. 2. Develop critical thinking*: Students will critically evaluate data, analyse results, and draw conclusions. 3. Enhance research skills*: Students will design, conduct, and report on an independent investigation. 4. Develop scientific literacy*: Students will demonstrate understanding of chemical concepts, theories, and applications. Competencies: 1. Scientific inquiry: Design and conduct experiments, collect and analyse data. 2. Critical thinking: Evaluate data, identify patterns, and draw conclusions. 3. Problem-solving: Apply chemical principles to solve real-world problems. 4. Communication: Effectively report findings through written and oral presentations. 5. Analytical thinking: Interpret data, identify limitations, and suggest improvements.
	Guidelines for the project	The project must be neat and should be between 6-12 pages. <u>Include the following sections:</u> • Title Page • Acknowledgment • Certificate • Index • Introduction • Observation • Bibliography • Use subtitles and bullet points where appropriate
	Description of Project	Identification of the material with the fastest/slowest fermentation rate. Understanding of the factors influencing fermentation rates (e.g., sugar content, pH, temperature). Insights into the potential applications of fermentation in food processing and biotechnology. This project will provide valuable insights into the fermentation process and its applications!
	Assessment Criteria	The activity can be marked considering- Content- 3 marks Presentation – 2 marks Picture- 3 marks On time submission - 2 marks
BIOLOGY	Topic of Project	Behavior and Hormones Biology Research PROJECT (ANY ONE TOPIC - Already assigned to the students in the classroom) 1. Report on the Significance of Certain Hormones

		Concerning the Body Functioning - How Hormones Contribute to Depression - Hormonal Changes During Pregnancy - Hormones Influence on Mind and Behavior - How Hormones Contribute to Depression - Hormonal Changes During Pregnancy - Cortisol and Testosterone Influence Risk-Taking - Current Oxytocin Science - Endocrine-Related Diseases - How Hormones Affect Human Behavior - Hormonal Control of Reproductive System
	Learning Objective with competency	The introduction sets the stage for your report. The aim includes your hypothesis, an explanation of what prompted your research and what you hoped to achieve.
	Guidelines for the project	Your project describes how you did the study. Describe in detail the methodology used to collect your data or make your observations. Your report should be detailed enough for someone to be able to repeat the experiment. Include photographs or drawings of self-designed equipment. The research work studied, reexplained and presented by you may include each little thing to understand.
	Description of Project	A research project should be prepared and must be available along with the project data book with relevant written material. A research paper helps organize data as well as thoughts. A good paper includes the following sections: project title, your name, class, aim/objective, scientific principle involved, content, further scope of project, conclusion, acknowledgement and bibliography.
	Assessment Criteria	On the basis of all points mentioned in description part. CBSE assessment criteria for biology project: - Content (40%): Depth, accuracy, and experimental design - Presentation (30%): Clarity, organization, and visual appeal - Scientific Skills (30%): Experiment design, data analysis, critical thinking Includes components like cover page, index, introduction, methodology, conclusion, and references.
MATHEMATICS	Topic of Project	LAB MANUAL FILE Following activities needs to be done in a LAB MANUAL FILE Activity-1 To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n. Activity-2 To verify distributive law for three given non-empty sets A, B and C, that is, $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$. Activity-3 To identify a relation and a function. Activity-4 To verify the relation between the degree measure and the radian measure of an angle. Activity-5 To find the values of sine and cosine functions in the second, third and fourth quadrants using their given values in the first quadrant. Kindly consider the given link for reference:

		https://bit.ly/3RY0N56	
	Learning Objective with competency	To understand and apply the concepts of sets and trigonometric functions in practical contexts. To enhance analytical thinking through classification, representation, and interpretation of data using sets and trigonometry. Competency: Demonstrates conceptual understanding and applies set theory and trigonometric identities to real-life problems and mathematical reasoning.	
	Guidelines for the project	Do the project in a lab manual file with proper formatting. Neatly organize the content with headings, diagrams, and explanations. References or sources (if any) must be cited.	
	Description of Project	This project focuses on the fundamental mathematical concepts of Sets and Trigonometric Functions, which form the base for logical reasoning and spatial analysis. Students will learn how to categorize and operate on sets using Venn diagrams and solve practical problems using trigonometric ratios and identities. The project integrates real-life situations to illustrate the importance of these concepts beyond the classroom.	
	Assessment Criteria	Criteria	Marks
		Conceptual Clarity	5
Real-Life Application and Analysis		5	
Graphical Representation and Examples		5	
Neatness, Presentation & Originality		5	
TOTAL		20	

APPLIED MATHS	Topic of Project	Applications of Indices and Exponents in Real Life
	Learning Objective with competency	- Learning Objectives: - Understand the laws of indices and their mathematical usage. - Apply the concept of exponents to solve practical problems involving large and small numbers. - Interpret and manipulate exponential expressions in real-life contexts such as finance, science, and technology.
	Guidelines for the project	- Select a real-world problem where indices or exponents are used (e.g., compound interest, population growth, radioactive decay, or scientific notation). - Explain the mathematical concept of indices and laws of exponents. - Collect or create relevant data and express it using exponential notation. - Solve problems using appropriate laws of indices. - Present your findings in a clear and logical format with step-by-step calculations. - Include graphical or tabular representations where

		possible. 7. Limit the project to 8–10 pages including conclusion and references. 8. Maintain neatness and clarity throughout the project.
	Description of Project	This project focuses on the use of indices and exponents to simplify calculations and model real-world situations. It begins with an introduction to the laws of indices, such as the product, quotient, and power rules. The project then explores applications such as calculating compound interest using the formula $A = P \left(1 + \frac{r}{100}\right)^n$, or expressing very large/small quantities in scientific notation. Students will gain a better understanding of how exponents help in managing complex numerical data in fields like finance, science, and computing.
	Assessment Criteria	Criteria
		Marks
		Clarity of Concept
		Application to Real-life Problem
		Correct Use of Laws of Indices
		Presentation and Structure
		TOTAL

ACCOUNTS

ACCOUNTS	Topic of Project	Accounting Recording of transactions Accounting equation Assignment (share in Erp on last working day)
	Learning Objective with competency	Preparation of Vouchers, accounting equation and books of original entries
	Guidelines for the project	Prepare accountancy project with real life examples
	Description of Project	1.Record 10 real-life financial transactions in journal 2.Explain accounting equation with the help of examples (20 transactions) 3.Write at least 10 points about accounting practices done by sole proprietor 4. Collection of source documents, preparation of vouchers, recording of transactions with the help of vouchers.
	Assessment Criteria	Project Work- 20 marks

BUSINESS STUDIES

BUSINESS STUDIES	Topic of Project	Business and its Significance
	Learning Objective with competency	Learning Objectives: 1. To understand the concept of Business Management. . 2. To develop critical thinking and problem-solving skills. Competency: 1. Critical thinking and analysis 2. Understanding of Business and its concepts.

	Guidelines for the project	The project requires the students to follow the following steps: 1. Students understand the designated topic of research and do the analysis by reading and exploring it in depth. 2. In the light of the above learners to research on the given topic exploring it in depth. 3. For study aid students to take reference from NCERT, study material (as shared), PPT's (as shared), and reliable internet sources. 4. Books/Journals/Internet sources)
	Description of Project	Prepare a PowerPoint presentation on any one businessman. Your presentation should include: i) Details of the Businessman. ii) Evolution of the business iii) The rise of the Business Empire. iv) The growth and expansion of the empire. v) The future prospects of the business. etc.
	Assessment Criteria	Assessment Criteria: 1. Content and analysis (30%) 2. Data collection and presentation (25%) 3. Critical thinking and conclusions (25%) 4. Organization and presentation (20%)
ECONOMICS	Topic of Project	Diagrammatic Presentation of Statistical Data
	Learning Objective with competency	Learning Objectives: 1. To understand the importance of statistical data representation. 2. To learn various diagrammatic presentation techniques (bar graphs, histograms, pie charts, etc.). 3. To develop skills in data analysis and visualization. Competency: 1. Data analysis and interpretation 2. Visual representation of data 3. Critical thinking and problem-solving
	Guidelines for the project	Guidelines: 1. Choose a relevant topic (e.g., population growth, climate change, etc.). 2. Collect and analyze data from credible sources. 3. Create diagrammatic presentations (graphs, charts, etc.) to visualize the data. 4. Interpret and discuss the findings.
	Description of Project	1. Collect, analyze, and present statistical data using various diagrammatic techniques. 2. Demonstrate your understanding of the data presentation and interpretation
	Assessment Criteria	1. Data collection and analysis (20%) 2. Diagrammatic presentation (30%) 3. Interpretation and discussion (30%) 4. Overall presentation and report (20%)
POLITICAL SCIENCE	Topic of Project	Choose one of the following suggested topics: • Making of the Constitution • Elections in India • Working of the Indian Judiciary System
	Learning	Understand the historical context and circumstances that led to

	Objective with competency	the framing of the Indian Constitution. Competencies: Demonstrate knowledge of the processes involved in constitution-making. Understand the processes involved in conducting free and fair elections. (Analyze and evaluate) Analyze landmark judgments and their implications on Indian society. (Demonstrate and develop)
	Guidelines for the project	Details to be provided in the project: It will be of minimum 17– 20 pages 1. Content (Main topic) 2. Acknowledgement 3. Index 4. Introduction 5. Body of the topic 6. Conclusion 7. Bibliography 8. Certification Prepare a handwritten project on A4-sized sheets. Ensure the project is well-researched, organized, and presented neatly.
	Description of Project	This project aims to delve into the historical journey of the Indian Constitution's formation. It will explore the socio-political context of pre-independent India, the composition and functioning of the Constituent Assembly, and the philosophical underpinnings that guided the drafting process.
	Assessment Criteria	Project (10 marks) Viva (10 marks)

GEOGRAPHY	Topic of Project	“Unstable Hills: A Case Study of the 2024 Wayanad Landslides”
	Learning Objective with competency	<u>Learning Objective:</u> To understand the geographical and human-induced causes of landslides in hilly regions, analyse their environmental and socio-economic impacts, and evaluate the effectiveness of disaster preparedness and response in Kerala. <u>Competency:</u> Demonstrates the ability to critically analyse natural disasters in the Indian context and propose appropriate mitigation and management strategies.
	Guidelines for the project	- The project must be neat and should be between 8-10 pages, including visuals like maps, photos, and graphs. - Use reliable sources such as government reports, news articles, and academic references <u>Include the following sections:</u> - Title Page - Acknowledgment - Certificate - Index - Introduction - Causes of the Wayanad Landslides - Impacts (Environmental, social, economic) - Government and community response

		• Preventive measures and suggestions • Conclusion • Bibliography ❖ Mapwork must include a labelled map of Kerala showing Wayanad and other landslide-prone areas. ❖ Use subtitles and bullet points where appropriate. ❖ Creative elements such as a poster or infographic are encouraged.
	Description of Project	This project aims to examine the 2024 landslides in Wayanad district of Kerala, triggered by intense monsoon rains and aggravated by environmental mismanagement. Students will explore the root causes, the immediate and long-term effects, and evaluate the preparedness and mitigation strategies adopted by the Kerala government and local communities. The project will also promote awareness about sustainable development and disaster risk reduction in hilly regions.
	Assessment Criteria	<u>Total weightage- 20 Marks</u> 05- Content and Presentation 05- Research and Analysis/Map work 05- Class presentation of content 05- Viva
HISTORY	Topic of Project	Mesopotamian: Development and Legacy of Writing Contribution of Roman Civilization Urbanization in Southern Mesopotamia Piecing together the past of 'Genghis Khan' The Three Orders Slavery in Ancient, Medieval and Modern period The Crisis of the Fourteenth Century PROJECT (ANY ONE TOPIC - Already assigned to the students in the classroom)
	Learning Objective with competency	To facilitate an understanding of contemporary issues in context to our past. Learners develop skills to comprehend, analyze, interpret, evaluate historical evidence and also understand the limitations of historical evidence. To develop 21st century managerial skills of coordination, self-direction and time management. Competency- Students get an opportunity to get exposed to diverse cultures, races, religions and lifestyles and develop skills to brainstorm, understand, critically analyze, and evaluate. Learners have the skills to analyze the developments in different spheres-economic, cultural, social, political and religious. Through the project, students would get an opportunity to explore the way societies were organized, develop the skill to reason for human existence so far and the culture and tradition that have been followed ever since.

	Guidelines for the project	The project requires the students to follow the following steps: 1. Students understand the designated topic of research and do the analysis by reading and exploring it in depth. 2. In the light of the above learners to research on the given topic 3. For study aid students to take reference from NCERT, study material (as shared), PPT's (as shared), and reliable internet sources. 4. Books/Journals/Internet sources) 5. Present the research via a creative depiction of the subject stated above added with facts, timeline, maps and pictographic representation 6. Students will execute the collected information in colorful A-4 sheets and compile all the sheets in a file which should be decorated creatively. The project can be sufficed in 10-15 pages maximum.
	Description of Project	1. Name of the Project (Topic) 2. Table of Content (Index) 3. Certificate 4. Acknowledgment 5. Research Project Purpose: a) Name of the Project (Topic) b) Statement of Purpose (Objective of the project) 6. Introduction 7. Detailed explanation of the topic (Main Topic) with Timeline, Pictures and Mind Map 8. Learnings from the Project (Conclusion) 9. Bibliography (References) 10. Teachers Remarks
	Assessment Criteria	Total weightage- 20 Marks 05- Content and Presentation 05- Research and Analysis 05- Class presentation of content 05- Viva
PSYCHOLOGY	Topic of Project	Analysing a Book or Movie Through the Lens of Psychology
	Learning Objective with competency	To critically evaluate human behavior depicted in media through critical thinking
	Guidelines for the project	1. Choose any one book or movie with strong psychological themes. Suggested options: Movies: Inside Out, A Beautiful Mind, The Pursuit of Happiness, Taare Zameen Par Books: The Curious Incident of the Dog in the Night-Time, Man's Search for Meaning, 2. Watch or read carefully, taking notes on characters, behaviors, emotions, and situations. 3. Identify at least 3–5 psychological concepts from your syllabus (e.g., motivation, learning, perception, emotions, development). 4. Structure your review in the following format: Introduction: Brief about the book/movie and main characters Plot Summary: Keep it short and relevant to psychological

		focus Psychological Analysis: Detailed discussion of concepts observed. Reflection: What did you learn? Any changes in your thinking?
	Description of Project	This project aims to help students explore and apply psychological principles in a real-world, creative context. By reviewing a movie or book, students will learn to observe behavior critically, understand emotional responses, and link theoretical knowledge to everyday life situations. It strengthens the bridge between academic concepts and practical understanding.
	Assessment Criteria	Understanding of Psychological Concepts: 5 Application of Concepts in Review: 5 Clarity, Organization, and Presentation: 4 Creativity and Insightfulness: 3 Grammar, Language, and Expression :3 Total = 20 marks

ENTREPRENEUR	Topic of Project	Creative Zone of an Entrepreneur
	Learning Objective with competency	Learning Objectives: - To understand the creativity skill and innovation by entrepreneurs. - To develop critical thinking and problem-solving skills. Competency: - Critical thinking and analysis - Understanding the skills of being an entrepreneur.
	Guidelines for the project	General Instructions to prepare the project: - The project should be simple, brief and easy. - It should be handwritten. The cover page should be neat and simple in presentation. No glitters etc. should be used.
	Description of Project	Project A: Prepare a collage on the following topics (i) Indian MNC's and their CEO's with their Brand name, Brand Mark and Taglines. (ii) Non-Indian MNC's and their CEO's with their Brand name, Brand Mark and Taglines. Project B: Project on any ONE Entrepreneur – life history, achievements and road blocks faced by him/ her.
	Assessment Criteria	Total weightage- 20 Marks 05- Content and Presentation 05- Research and Analysis 05- Class presentation of content 05- Viva

COMPUTER SCIENCE	Topic of Project	- Research & Write (Short Report: 400–600 words) Topics (choose one): - Evolution of computers - Open-source vs proprietary software - Future of AI in everyday life - Role of Python in modern applications - Presentation Task Make an 8–10 slide PowerPoint/Canva presentation on:
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		• Cyber Safety and Digital Footprint - or • Career Options in Computer Science Include real-life examples and visuals.
	Learning Objective with competency	Understand emerging AI technologies – Develop knowledge of how AI is integrated into daily activities. Research and critical thinking – Gather, analyze, and evaluate sources to support ideas. Effective communication in writing – Convey complex ideas clearly and concisely in report format. Digital literacy – Use digital tools for research and reporting.
	Guidelines for the project	Write a short report (400–600 words) on how artificial intelligence (AI) is influencing everyday life. Include a brief introduction to AI, its current applications (like smart assistants, healthcare, education), and future potential. Use at least two reliable sources and cite them properly. Maintain clear structure: Introduction, Body, Conclusion. Avoid plagiarism and ensure original analysis. Use formal language and check grammar/spelling.
	Description of Project	Students will explore how artificial intelligence is shaping the way we live—from smart homes and virtual assistants to personalized learning and autonomous vehicles. The report will cover current real-life applications and speculate on future developments. Students will demonstrate their ability to conduct research, synthesize information, and write a concise, informative report.
	Assessment Criteria	• Content relevance and depth • Structure and organization • Use of evidence and examples • Language and grammar

ARTIFICIAL INTELLIGENCE	Topic of Project	IBM SKILLS BUILD and Practical work
	Learning Objective with competency	Learn AI basics and real-world applications. Build foundational Python skills. Analyze data using pandas. Develop self-learning and digital skills
	Guidelines for the project	IBM SKILLS BUILD I. Enroll in and complete at least one certification course from IBM Skills Build (https://skillsbuild.org/). Instructions: 1. Create your account on IBM Skills Build if not already done. 2. Choose any AI/ML/Data Science/Soft Skills related course (as per recommendations in the student handbook). 3. Complete the course and download the certificate. 4. Submit a printout or screenshot of your certificate as part of your Practical File. Practical work: Complete the following unit-wise activities and prepare handwritten responses for your Practical File. Use proper

		formatting and neat presentation.																																									
	Description of Project	Practical work: Practical 1: Categorize the given applications into the three domains as given on pg. 5 of the Students Handbook. Practical 2: Python Programs Level 1 (a) WAP to calculate and print simple Interest (b) WAP to find and print the sum of first 10 natural numbers. (c) WAP to print the squares of first ten even numbers (d) WAP to find if a number is positive, negative or zero Practical 3: Python Program Level 2 (a) Write a program to create series from an array in Python. (b) Consider the following admission.csv and answer the following questions: <table><thead><tr><th>Name</th><th>CLASS</th><th>Gender</th><th>Marks</th></tr></thead><tbody><tr><td>Amit</td><td>10</td><td>M</td><td>75</td></tr><tr><td>Ashu</td><td>9</td><td>F</td><td>95</td></tr><tr><td>Abhinav</td><td>9</td><td>M</td><td>86</td></tr><tr><td>Ravi</td><td>10</td><td>M</td><td>57</td></tr><tr><td>Rashmi</td><td>11</td><td>F</td><td>78</td></tr><tr><td>Ramesh</td><td>10</td><td>M</td><td>72</td></tr><tr><td>Mohit</td><td>9</td><td>M</td><td>53</td></tr><tr><td>Manavi</td><td>10</td><td>F</td><td>47</td></tr><tr><td>Dhruv</td><td>9</td><td>M</td><td>76</td></tr></tbody></table> a. Create a data frame from the admission.csv b. Display first 3 rows of the data frame. c. Display the details of Ravi. d. Display the total number of rows and columns in the data frame. e. Display the column “Gender”.		Name	CLASS	Gender	Marks	Amit	10	M	75	Ashu	9	F	95	Abhinav	9	M	86	Ravi	10	M	57	Rashmi	11	F	78	Ramesh	10	M	72	Mohit	9	M	53	Manavi	10	F	47	Dhruv	9	M	76
	Name	CLASS	Gender	Marks																																							
Amit	10	M	75																																								
Ashu	9	F	95																																								
Abhinav	9	M	86																																								
Ravi	10	M	57																																								
Rashmi	11	F	78																																								
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PAINTING	Topic of Project	Still life on different medium- charcoal, pencil shading, watercolor, oil pastel, pencil color.
	Learning Objective with competency	Understand lines, forms and light- shade
	Guidelines for the project	Paper should be A2 size, neat and use the medium properly.
	Description of	Improve drawing and perspective

	Project	
	Assessment Criteria	Neatness and using of materials
HINDUSTANI VOCAL	Topic of Project	Vargikaran of Thhats according to Sangeet Parijaat
	Learning Objective with competency	Understand pramukh Thhats written by Ahobal ji
	Guidelines for the project	Project file to be made on A 4 size-colored sheets
	Description of Project	Thhats and Tuning of Tanpura.
	Assessment Criteria	All the swaras of Thaats to be covered and Parts of Tanpura.
LEGAL STUDIES	Topic of Project	(Choose any one of the following options) - Legal issues related to any topic from the textbook or surroundings (e.g. Uniform Civil Code, Juvenile Justice, Death Penalty, etc.) - Recent legislation/amendment that brought about social change (e.g. RTI, IT Act, Consumer Protection Act) - Understanding the important elements of a Judicial Decision
	Learning Objective with competency	The project work aims to enable students to: - Identify a legal problem and provide its remedy - Select relevant legal sources and conduct research - Analyze and distinguish between types of cases - Apply case laws and relevant statutory laws (For Topic 3) Understand the structure and significance of a judicial decision
	Guidelines for the project	For Topics 1 & 2: - Choose a legal topic from the textbook or current legal scenario - Collect data from multiple reliable sources - Draft a statement of purpose - Support your project with research and evidence - Ensure clear presentation with proper headings and subheadings - Project file should be minimum 15 pages - Mention all sources/references used For Topic 3 (Judicial Decisions): - Select 5 decided cases, one from each category: - Criminal - Civil - Constitutional - International - Student's choice (preferably PIL) - For each case, include: - Name of the case - Parties involved

		○ Nature of the case ○ Facts and issues involved ○ Final judgment ○ Citation	
	Description of Project	Topic 1: Research a relevant legal issue from the textbook or environment and propose possible solutions or reforms. Topic 2: Analyze a recent legislation or amendment that caused a social change, including its origin, need, reform mechanism, and effectiveness in achieving justice. Topic 3: Study and present the judicial reasoning and decisions in five landmark cases of different legal nature, highlighting understanding of legal reasoning and structure.	
	Assessment Criteria	Criteria	Marks
		Preparation and presentation of file	5
		Research work	5
		Understanding and application of legal concept	5
		Viva	5
		Total	20