

English	Mathematics	Psychology	Legal
Activity: “Memory & Emotions Scrapbook” Students create a scrapbook with pictures/memories Write a short reflection linking to both texts	Sets Use Venn diagrams with colored paper to represent union, intersection, complement. Activity: Survey classmates (e.g., favorite sports) and represent data using sets	Understanding - Psychology - Branches of Psychology History of Psychology	Topic: Concept of State & Elements of State Activity: Create Your Own Country
Physics	Chemistry	AI	PAT
Use Vernier Callipers to measure the internal diameter and depth of a beaker. Calculate its volume and density.	Preparation of Molar & Molal Solution	1. Identify AI applications in daily life 2. Categorize AI domains	TOPIC- UNIT-1: ROLE OF PHYSICAL EDUCATION IN CHILD DEVELOPMENT Activity:-.Prepare chart on Health triangle
	DTI-	Sculpture/ Commercial Arts	Fashion Studies/
	- Simple Visual Design/Redesign of a Publication - Design a Story Book for Children	Clay shapes (basic forms) Still Life (Shading)	Chapter 1: Introduction to Fashion ACTIVITY:The Color Psychology
Data Science	Biology	electronics	Food & Nutrition
In this project, you can use a data set of popular dog breed characteristics to determine the best breed of dog for a hypothetical friend. You can consider various factors like the dog's lifespan, maximum weight, and whether the breed is good with children. You will collect, summarize, and compare data on finding the perfect dog breed.	Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound)	Basic Electronics	Unit 1: Food and Nutrition – Basic Concepts Ch 1: Food and its Functions Activity 1: Write functions of food Activity 2: Diagram of body functions Still Life (Shading)

Class: XI A

Month: May

English	Mathematics	Psychology	Legal
Activity: "Survival Strategy Presentation" Group activity: Plan survival in extreme conditions Present using poster/PPT	Relations & Functions Create arrow diagrams to show relations between two sets. Activity: Identify real-life functions (e.g., temperature vs time graph). z	Understanding Methods of Enquiry in Psychology using presentation method Include: slides with visuals to illustrate concepts share real-life examples to make it relatable (Case studies) quizzes, discussions (Interactive Elements)	Topic: Organs of Government (Legislature, Executive, Judiciary) Activity: Mock Parliament
Physics	Chemistry	AI	PAT
Use a Parallelogram Law of Forces apparatus to find the weight of a given body by adding two known vectors	Reaction of Metals with Acids , bases & water	1. Research AI companies 2. Skill comparison activity	TOPIC- UNIT-1: ROLE OF PHYSICAL EDUCATION IN CHILD DEVELOPMENT <i>Activity: 1 Group activity on</i>
	DTI	Fashion Studies/	Food & Nutrition Food & Nutrition
	- Preproduction – Write a Story Script for a Short Video Movie - Production and Post-production – Shooting and Editing the Video Movie	Chapter 2: Introduction to Fashion Studies ACTIVITY: Fabric Identification Burn Test	Ch 2: Nutrients Activity 1: Identify nutrients in daily food
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Statistics Project -1	Preparation and study of T.S. of dicot and monocot roots and stems (primary). Study of osmosis by potato osmometer. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.	Computer system s Fundamentals	Nature Painting with poster color Cultural sculpture (mini idol/model)

Class: XI A

Month: June

English	Mathematics	Psychology	Legal
SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK
Physics	Chemistry	A I	PAT
SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK
	DTI	Food & Nutrition	Sculpture /Commercial Arts
SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK
Data Science	Biology	Electronics	Fashion Studies/
Summer break	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK

English	Mathematics	Psychology	Legal
Activity: “History Meets Values” Report - Compare historical facts and moral values - Write a short report	Complex Numbers & Quadratic Equations - Represent complex numbers on Argand plane. - Activity: Solve quadratic equations and verify roots graphically.	Practical Work on Questionnaires Topic- Role of heredity and environment in development Activity: Cognitive Development (Jean Piaget)	Topic: Salient Features of the Constitution of India Activity: Constitution Poster Exhibition
Physics	Chemistry	AI	PAT
Determine the limiting friction between a wooden block and a horizontal surface. Plot a graph between Normal Reaction and Frictional Force.	Bomb Calorimeter for the calculation of enthalpy of combustion	1. Write Python programs 2. Practice loops & conditions	Topic:- UNIT 2: PROPS AND EQUIPMENT Activity:- 1.List down factors affecting selection of props and equipment
	DTI	Food & Nutrition	Fashion Studies/
	- Visually Map your Journey from Home to School - Design Charts about the Statistics of your School	Unit 1 Ch 4: Balanced Diet Activity 2: Record your diet (3–5 days)	Chapter 3: Basic Pattern Development ACTIVITY: Elements of Design: Sketching Series
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Consider a company manufacturing metal utensil for home cookware. The company has a factory in which 200 workers work on an everyday basis. Describe how the set-up of the factory (proper equipment, safety measure and infrastructure) has a correlation and causal relationship with workers of the factory. Try to derive the correlation between workers of the factory, the profitability and sustenance of the company. One should also think about the end product the customers will be using and what difference it may cause to their lives.	Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). Study of distribution of stomata on the upper and lower surfaces of leaves	Introduction to Operating systems	Illustration Painting Black and White Timeline with miniature sculptures

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Activity: “Art & War Reflection Project” Create artwork + write reflection on loss and culture	Complex Numbers & Quadratic Equations - Represent complex numbers on Argand plane. - Activity: Solve quadratic equations and verify roots graphically.	learning by Doing Part Completion Test using Open Book Test Method	Topic: Jurisprudence – Meaning and Purpose of Law Activity: Law Around Us Case Study
Physics	Chemistry	AI	PAT
Measure the force of limiting friction for a roller on a horizontal plane and compare it with sliding friction.	Lewis Acids & Bases, PH of solutions & buffer formation	1. Data analysis using Pandas 2. Mini project	Topic:-. UNIT 2: PROPS AND EQUIPMENT Activity;-Prepare a timetable for the inspection of playfield area 2.List down the safety measure to be kept in mind while doing playfield inspection
Medical Diagnostic	DTI	Food & Nutrition	Fashion Studies/
	- Nature and Design - Simple Product Design	Ch 5: Methods of Cooking Activity 1: List cooking methods	Chapter 4: Basics of Textiles ACTIVITY: The "Paper Drape" Challenge
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Python Project-1	Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.	Installation and configuration of windows 10	Advertisement Poster with Poster Color Relief sculpture (cave style)

Class: XI A

Month: September

English	Mathematics	Psychology	Legal
Activity: “Eco Awareness Campaign” Poster making + slogan writing + short speech	HALF YEARLY EXAM	HALF YEARLY EXAM	Topic: Sources of Law (Custom, Legislation, Judicial Precedent) Activity: Legal Research Task
Physics	Chemistry	A I	PAT
HALF YEARLY EXAM	HALF YEARLY EXAM	1. Conduct survey 2. Create charts/graphs	Topic:- UNIT 3: HYGIENE AND SAFETY Activity:-.Identification of cleaning materials for play area 2.List the steps to maintain hygiene at playground.
	DTI	DTI Food & Nutrition	Fashion Studies/ Food & Nutrition
	HALF YEARLY EXAM	Half yearly	Half yearly
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Half yearly	Separation of plant pigments through paper chromatography. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.	Installation of Ubuntu Linux	Moral thoughts Calligraphy Terracotta toy/model making

English	Mathematics	Psychology	Legal
Activity: “Drama Writing ” Write a scene showing family discussion or argument	Permutations & Combinations - Activity: Count arrangements of objects (books, people seating). - Use cards/dice to understand combinations.	Psychology Practical work on Learning and Memory Celebrate Mental Health Awareness Week in school	Topic: Judiciary – Structure of Courts Activity: Court Hierarchy Chart
Physics	Chemistry	A I	PAT
Study the conservation of energy of a ball rolling down on a double inclined plane .	Lucas Test for Alcohols	Data Collection Project – Conduct survey & analyze results	Topic:- UNIT 3: HYGIENE AND SAFETY Activity:- Prepare a poster on First Aid principles 2. Conduct on ground demonstration of first aid
	DTI	Food & Nutrition	Fashion Studies/
	- User Research - Developing Visual Icons for Graphical User Interface	Ch 4–6 (Adult, Elderly, Pregnancy) Activity 1: Diet plan for pregnant woman	Chapter 5: Elements of Garment Construction ACTIVITY: Basic Stitching Sampler
Data Science	Biology	Electronics	Sculpture /Commercial Arts
R Studio Project -1	- Test for presence of urea in urine. - Test for presence of sugar in urine. - Test for presence of albumin in urine. - Test for presence of bile salts in urine	Installation of Motherboard and BIOS	Book Page Drawing Ashoka pillar / sculpture replica

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Activity: Travel Blog Writing Write a blog describing a journey	Sequences & Series - Identify arithmetic progression in real life (e.g., savings pattern). - Activity: Create patterns and find nth term.	Project File work to undertake one project which would involve use of different methods of enquiry.	Topic: Criminal and Civil Court Process Activity: Mock Court Trial
Physics	Chemistry	A I	PAT
study the dissipation of energy of a simple pendulum by plotting a graph between the square of amplitude (A^2) and time (t).	Detection of Nitrogen, Sulphur & Halogen by Lassaigne's Solutions	Data Collection Project – Conduct survey & analyze results	Topic:- UNIT 3: HYGIENE AND SAFETY Activity:-Preparation of flowchart on the sequential steps of CPR 2.Demonstration of CPR
	DTI	Food & Nutrition	Fashion Studies/
	- Understanding Indian Toys - Designing a Toy or Game	Unit 3: Public Health Activity1: Health awareness list Unit 4: Nutrition Disorders Activity 1: Chart on malnutrition	Chapter 6: Practical Work & Portfolio Development ACTIVITY: Analyzing the Fashion Cycle
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Consider that you are participating in a survey where you are figuring out the probability of a new-born baby to be underweight. Underweight is when a baby is born with a weight less than 2.5kgs. Average weight of a new-born is 3.5kgs and it deviates from average by 1.25kgs. Use z-score to figure out probability of a new-born baby to be underweight.	Types of inflorescences (cymose and racemose). Human skeleton and different types of joints with the help of virtual images/models only.	Installation of CPU and Heat Sink	Sports Day Poster with Water Color Relief sculpture Mural panel

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Activity: “Debate & Letter Writing Combo” - Debate: “Modern education fails creativity” - Follow-up: Letter expressing generational gap	Conic Sections - Draw parabola, ellipse using thread and pins. - Activity: Identify real-life examples (satellite dishes, orbits).	Students will prepare their own simplified detailed mind-map for the chapters for better retention	Topic: Family Justice System Activity: Legal Awareness Campaign
Physics	Chemistry	A I	PAT
Study the effect of different detergents on the surface tension of water by observing capillary rise.	Bending of test-tube, & cork boring	PROJECT AND REVISION	Topic:- UNIT 4: SPORTS AND FITNESS Activity:- 1. Preparation of chart for describing the various aspects of organising sports competition
	DTI	Food & Nutrition	Fashion Studies/
	- Problem Analysis and Ideation - Design Solution Final Presentation and Documentation	Unit 3: Public Health Activity 1: Health awareness list Unit 4: Nutrition Disorders Activity 1: Chart on malnutrition	Chapter 6: Practical Work & Portfolio Development ACIVITY: Textile Surface Ornamentation
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Suppose you were working with an NGO to help in vaccinating all the kids in your area against Polio. Now that vaccination drive is completed and all the kids are vaccinated, you wanted to make sure that you discard the data about kids that you collected during vaccination. Explain the technique that you would use to discard this data and how will you implement this action.	Mitosis in onion root tip cells and animal’s cells (grasshopper) from permanent slides	Installation of RAM Modules	Composition Poster with Poster Color/ Temple sculpture design (clay)

English	Mathematics	Psychology	Legal
Activity: “Case Study & Satire Writing” Write satire on governance	Limits & Derivatives - Activity: Understand limit concept using tables and graphs. - Show rate of change using simple motion examples.	Extended Essay submission	Revision
Physics	Chemistry	A I	PAT
Observe and explain the effect of heating on a bi-metallic strip (Expansion and contraction principles).	volumetric Analysis (Preparation of Standard solutions)	Revision	UNIT 4: SPORTS AND FITNESS Activity:-.List down the important point to be kept in mind before beginning any physical activity
	DTI	Food & Nutrition	Fashion Studies/
Revision	Revision	revision	Chapter 6: Practical Work & Portfolio Development ACTIVITY: The Brand Identity Workshop Accessory Design: From Concept to Craft
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Python Project-2 R Studio-2	Preparation of project file as given topics	Installation of Disk Drivers Computation assembly and disassembly	National Event Poster with Water Color/ Bronze-style clay sculpture

Class: XI A

Month: February

English	Mathematics	Psychology	Legal
Revision	Annual Examination	File Submission and Revision	Annual Examination
Physics	Chemistry	A I	PAT
Annual Examinations	Annual Examinations	Revision	Annual Examinations
	DTI	Food & Nutrition	Fashion Studies/
	Annual examinations	revision	Annual Examinations
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Annual Examinations	Annual examinations	Tools and Safety	ANNUAL EXAM / File Submission and Revision

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Month: March

English	Mathematics	Psychology	Legal
Annual Exam	Annual Exam	Annual Exam	Annual Exam
Physics	Chemistry	A I	PAT
Annual examinations	Annual examinations	Annual Examinations	Annual Examinations
	DTI	Food & Nutrition	Fashion Studies/
Annual Examinations	Annual examinations	Annual Examinations	Annual Examinations
Data Science	Biology	Electronics	Sculpture /Commercial Arts
Annual examinations	Annual examinations	Annual examinations	Annual examinations