



ADRIEL HIGH SCHOOL
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Annual Planner
Class : XI

BIOLOGY

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
1. The Living World No. of Periods : 4	Understand taxonomy, nomenclature and Scientific names.	Lecture, Visualization Discussion	Herbarium sheets, Flash cards of Taxonomic hierarchy of an organisms	Textbook, Flashcards Audio – Visual Aid	Identify living traits & naming rules.	Difficulty with scientific names.	Red Flag: Flashcard practice for scientific names. O White Flag: Group discussion for concept clarity. Green Flag: Research project on species discovery.
2. Biological Classification No. of Periods : 5	Explain the basis of classification Describe 5 kingdom classification. Differentiate prokaryotes & eukaryotes. Identify the different kingdoms and their distinguishing features.	Group discussion, Videos	Sorting activity using images and classification chart.	Textbook, Videos, Specimen models, charts.	Classify organisms into kingdoms.	Confusion between Monera & Protista and their different groups.	Red Flag: Simplified notes and mnemonic aids. O White Flag: Assignment comparing kingdoms. Green Flag: Presentation on unique microorganisms
3. Plant Kingdom No. of Periods : 7	Differentiate plant groups. Explain characteristic features of different groups of plants with their examples.	Visual aids, Group project	Group posters for plant divisions	Textbook, Specimens	Classify plants, explain life cycles.	Confusion in Bryophytes and pteridophytes	Red Flag: Visual flowcharts. O White Flag: Group quiz on plant groups. Green Flag: Visit to Botanical garden to observe plant diversity.
4. Animal Kingdom No. of Periods : 7	Identify phyla. Explain classification criteria.	Mind maps, Comparative charts	Preparation of Classification chart	Textbook, Videos, Specimen models.	Classify animals into phyla.	Struggle to differentiate between chordata , cephalochordata and urochordata.	Red Flag: Phylum identification flashcards. O White Flag: Practice classification sheets. Green Flag: Develop phylum guide with examples.

5. Morphology of Flowering Plants No. of Periods : 8	Identify plant parts. and describe their functions in biological systems.	Visual aids, Demonstration	Scrapbook collection	Local specimens, Textbook	Identify different types of stem , root and leaf; different parts of an angiospermic flower and their arrangement. Explain the floral description of a flower.	Difficulty remembering terms and floral diagram and floral formula.	Red Flag: Simplified explanation with flow chart and Labeling practice. ○ White Flag: Diagram-based revision chart. Green Flag: Search for floral diagrams and floral formula of few local flowers.
6. Anatomy of Flowering Plants No. of Periods : 6	Explain tissues. Describe plant anatomy.	Microscope , demonstration	Prepare temporary slides, Observe & draw tissues	Permanent Slides, Microscope	Identify tissues & draw diagrams.	Difficulty identifying tissue types.	Red Flag: Tissue identification worksheets. ○ White Flag: Peer teaching sessions. Green Flag: Research tissue adaptations in plants.
7. Structural Organisation in Animals No. of Periods :5	Explain structural organization of Frog.	Videos, Charts	Make flash cards of different organ system of frog.	Textbook, Videos, Specimen model of life cycle of frog.	Study the external and internal structure of frog.	Confusion in two types of respiration in frog and male and female reproductive system.	Red Flag: Flashcards of different organ system. ○ White Flag: External and internal structure quiz. Green Flag: Case study on economic importance of frog.
8. Cell: The Unit of Life No. of Periods :6	Understand Cell Theory, Endomembranous system of cell. Structure of an eukaryotic cell , types of chromosomes. Differentiate prokaryotic & eukaryotic cells.	Visual aids, Lecture	Model-making Diagram making.	Textbook Models	<input type="checkbox"/> Differentiate between gram positive and gram negative bacteria. <input type="checkbox"/> Explain the structure and function of different cell organelles.	Confusion about Cell membrane and cell wall extensions. Satellite chromosomes.	Red Flag: Picture recognition and Labeling exercises. ○ White Flag: Cell comparison tables. Green Flag: Research project on new organelles.
9. Biomolecules No. of Periods :8	<input type="checkbox"/> Analyze the chemical composition of biomolecules and their importance in metabolism. <input type="checkbox"/> Differentiate between	Discussion, Visualization,	Classification chart and comparison tables.	Textbook, Videos	<input type="checkbox"/> Categorise biomolecules & explain. like amino acids , proteins , lipids and nucleic acid; and their role in	<input type="checkbox"/> Proteins vs enzymes confusion. <input type="checkbox"/> Struggle to understand lipid as a biomacromolecule.	Red Flag: Simplified explanation with basics of Chemistry. ○ White Flag: Biomolecules crossword. Green Flag: Research biomolecules in health.

	biomacromolecules and biomicromolecules. <input type="checkbox"/> Explain the structure, classification of carbohydrates , protein, lipids , nucleic acid ,and enzymes				biological processes. <input type="checkbox"/> Learn the structure of biomolecules and their extraction		
10. Cell Cycle & Cell Division No. of Periods :5	<input type="checkbox"/> Explain cell cycle phases. <input type="checkbox"/> Identify the different phases of mitosis and meiosis. <input type="checkbox"/> Differentiate between mitosis and meiosis. <input type="checkbox"/> Identify haploid and diploid cell ;and where these occur.	Diagrams, Visualization	Making chart or model on mitosis and meiosis.	Videos, Textbook	Explain the cell cycle and cell division. <input type="checkbox"/> Understand the different phases of cell cycle, the different stages of mitosis and meiosis and their significance.	Confusion in interphase and interkinesis; G1 , G2 and S phase.	Red Flag: Flow Diagram-based revision. O White Flag: Sequence-based quiz. Green Flag: Create 3D model.
11. Photosynthes is in Higher Plants No. of Periods :6	Explain light & dark reactions. <input type="checkbox"/> Understand the steps of the Calvin cycle (C3 pathway) and its role in glucose formation. <input type="checkbox"/> Compare C3, C4, and CAM plants in terms of carbon fixation. <input type="checkbox"/> Analyze the effects of light intensity, CO ₂ concentration, temperature, and water availability on photosynthesis.	Diagrams, Experiments, Visualization	Light and photosynthesi s experiment	Plant, Textbook, Videos	<input type="checkbox"/> Differentiate between light-dependent (photochemical phase) and light-independent (biosynthetic phase) reactions. <input type="checkbox"/> Explain cyclic and non-cyclic photophosphor ylation and the formation of ATP and NADPH	Difficulty in Calvin cycle steps.	Red Flag: Stepwise reaction charts. O White Flag: Photosynthesis process quiz. Green Flag: Explore artificial photosynthesis.

					<input type="checkbox"/> Apply Blackman's Law of Limiting Factors to understand how photosynthetic rate is controlled.		
12. Respiration in Plants No. of Periods :6	<input type="checkbox"/> Differentiate between aerobic and anaerobic respiration in plants and Compare them based on energy yield, products, and location. <input type="checkbox"/> Explain fermentation in plants, including alcoholic fermentation and lactic acid fermentation. <input type="checkbox"/> Identify how temperature, oxygen availability, water content, and type of substrate affect respiration rates.	Visualization, Explanation	Make flow chart representing glycolysis, Kreb's Cycle and ETS.	Videos, Textbook, Flow Chart	<input type="checkbox"/> Understand the process of Glycolysis , Krebs cycle and electron transport chain (ETC) and ATP synthesis in mitochondria. <input type="checkbox"/> Explain the concept of respiratory quotient (RQ) and its significance in Explain respiration processes.	Confusion in two phases of Glycolysis Chemical reaction occurring in Kreb's cycle. Struggle to memorise electron acceptor in	Red Flag: Mnemonics for pathway. O White Flag: Comparison table activity. Green Flag: Research new respiration pathways.
13. Plant Growth & Development No. of Periods :6	<input type="checkbox"/> Explain phases of growth <input type="checkbox"/> Analyze growth curves and interpret data from growth measurements. <input type="checkbox"/> Explore how plant hormones are used	Visualization , Explanation	Hormone function role play.	Textbook, Flow Charts	<input type="checkbox"/> Explain growth stages & hormones. <input type="checkbox"/> Understand the role of plant hormones in growth and development.	Confusion and struggle to memorise hormone roles.	Red Flag: Hormone flashcards. O White Flag: Case study on hormones. Green Flag: Explore genetic control of growth.

	in agriculture circulation.						
14. Breathing & Exchange of Gases No. of Periods : 7	<input type="checkbox"/> Differentiate between external respiration, internal respiration, and cellular respiration. <input type="checkbox"/> Explain human respiratory system. <input type="checkbox"/> Explain the process of breathing with the role of the diaphragm and intercostal muscles. <input type="checkbox"/> Gain knowledge of common respiratory diseases like asthma, emphysema, bronchitis, pneumonia, and occupational lung diseases.	Visualization, Observation, Demonstration	Make a 3D chart explaining mechanism of breathing.	Model of human respiratory system, Textbook	<input type="checkbox"/> Explain the transport of oxygen by hemoglobin and carbon dioxide . <input type="checkbox"/> Understand how the respiratory system is regulated by the nervous system. <input type="checkbox"/> Know the concept of Respiratory Volumes and Capacities Define body fluids and their importance in the human body.	Confusion in alveolar exchange, partial pressure of oxygen and carbon dioxide.	Red Flag: Recapitulation and simplified explanation of partial pressure. O White Flag: Respiratory system quiz. Green Flag: Research lung disorders.
15. Body Fluids & Circulation No. of Periods :8	<input type="checkbox"/> Differentiate between arteries, veins, and capillaries. Compare open and closed circulatory systems. <input type="checkbox"/> Understand the difference between single circulation and double circulation. <input type="checkbox"/> Identify common cardiovascular disorders like hypertension, heart	Visualization, Observation, Demonstration	Heart model-making	Textbook Model of Human heart, Blood group system flowchart.	<input type="checkbox"/> Explain the composition and functions of blood and lymph. <input type="checkbox"/> Describe the ABO blood group system and Rh factor. <input type="checkbox"/> Explain the process of blood clotting. <input type="checkbox"/> Describe the structure and functioning of	Struggle to understand different nodal tissue location in heart and cardiac cycle..	Red Flag: Reinforcement through Blood group system flowchart. O White Flag: Circulation quiz. Green Flag: Research heart transplantation and artificial hearts.

	attack, and heart failure.				the human heart and the concept of double circulation.		
16. Excretory Products & Elimination No. of Periods : 7	<input type="checkbox"/> Recognize various metabolic wastes like ammonia, urea, and uric acid, and classify organisms based on their excretory products (ammonotelic, ureotelic, uricotelic). <input type="checkbox"/> Explain the structure and function of the kidneys, ureters, urinary bladder, and urethra. <input type="checkbox"/> Understand processes like ultrafiltration, selective reabsorption, and tubular secretion in nephron function.	Diagrams, Visualization.	Make working model of nephron and dialysis machine.	Charts, Videos	<input type="checkbox"/> Identify different types of nitrogenous waste products and their excretion in different organisms. <input type="checkbox"/> Explain the structure and function of the human excretory system. <input type="checkbox"/> Understand osmoregulation and the role of ADH. <input type="checkbox"/> Discuss disorders related to the excretory system.	Difficulty in nephron parts and their function.	Red Flag: Recapitulation through audio visual aid and Nephron labeling exercise. O White Flag: Kidney function quiz. Green Flag: Compare human and animal excretion.
17. Locomotion & Movement No. of Periods : 7	<input type="checkbox"/> Explain the mechanism of muscle contraction(sliding filament theory) <input type="checkbox"/> Describe the human skeletal system and its classification (axial and appendicular skeleton).	Demonstration Visualization	Make a flow chart representing different parts of human skeleton ,bones and joints.	Model of human skeleton Textbook	<input type="checkbox"/> Identify different types of movements, the major bones and joints of the human skeleton. <input type="checkbox"/> Explain the role of the skeleton in support,	Struggle to grasp the Sliding – filament theory of muscle contraction.	Red Flag: Stepwise flow chart to understand the muscle contraction. O White Flag: Case studies on movement. Green Flag: Research sports injuries.

	<input type="checkbox"/> Identify different types of joints and their movements. <input type="checkbox"/> Learn about common skeletal and muscular disorders (e.g., osteoporosis, arthritis, muscular.				protection, and movement. <input type="checkbox"/> Explain the structure and function of muscles. <input type="checkbox"/> Differentiate between skeletal, smooth, and cardiac muscles.		
18. Neural Control & Coordination No. of Periods :8	Explain the structure and function of the human nervous system. <input type="checkbox"/> Differentiate between the central nervous system (CNS) and peripheral nervous system (PNS). <input type="checkbox"/> Understand the role of the autonomic nervous system.	Reinforcement Visualization Explanation.	Make a model of human brain and a flow chart of nervous system.	Model of Neuron, Textbook	<input type="checkbox"/> Label and describe parts of a neuron: dendrites, cell body, axon, synapse. <input type="checkbox"/> Identify major parts: cerebrum, cerebellum, medulla oblongata, hypothalamus etc. <input type="checkbox"/> Discuss the role of different brain regions in body functions.	Difficulty in grasping transmission through synapse.	Red Flag: Nerve impulse flowchart. O White Flag: Brain parts quiz. Green Flag: Research neurological disorders.
19. Chemical Control & Coordination No. of Periods : 7	<input type="checkbox"/> Identify the endocrine glands and their locations in the human body. <input type="checkbox"/> Differentiate between endocrine and exocrine glands. <input type="checkbox"/> Explain the role of	Visualization, Explanation	Make a flow chart showing endocrine glands , their location, hormone secreted and function	Flow Charts, Textbook	<input type="checkbox"/> Learn about Disorders Related to Hormonal Imbalance like diabetes mellitus, goiter, gigantism,	Struggle in understanding the feedback mechanism in hormone regulation.	Red Flag: Hormone flashcards. O White Flag: Case studies. Green Flag: Research on hormone therapy.

	secreted by endocrine glands.		performed by them.		dwarfism, Addison's disease. □ Understand the effects of hyposecretion and hypersecretion of hormones. Explain glands & hormones.		
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ECONOMICS

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedial
Introduction	Understand basic economic concepts and their relevance	Lecture, Discussion, Real-life examples	Concept mapping, Group discussions	Textbook, Articles, Videos	Clarity on fundamental terms	Confusion in distinguishing micro & macroeconomics	One-on-one revision (Red Flag) ○ Group quiz (White Flag) Advanced case studies (Green Flag)
Consumer's Equilibrium	Explain consumer behavior and utility concepts	Lecture, Case Study, Diagrams	Budget analysis activity, Utility calculation	Textbook, Videos, Graphs	Understanding of demand theory	Difficulty in applying utility concepts	Step-by-step problem solving (Red Flag) ○ Group exercises (White Flag) Independent case study (Green Flag)
Demand	Analyze factors affecting demand, Law of demand	Lecture, Visual Aids, Graphical Representation	Market survey, Demand analysis	Textbook, Real-life data	Knowledge of demand curves	Struggles with exceptions to demand law	Extra practice worksheets (Red Flag) ○ Group discussions (White Flag) Independent research (Green Flag)
Elasticity of Demand	Explain price elasticity and its implications	Lecture, Practical Examples, Graphs	Elasticity calculation, Role-play as sellers	Textbook, Market Data	Understanding of price sensitivity	Confusion in formula applications	Guided numerical practice (Red Flag) ○ Peer learning exercises (White Flag) Advanced elasticity analysis (Green Flag)
Production Function	Understand inputs and outputs of production	Lecture, Graphs, Real-life Examples	Case study on firms, Cost analysis	Textbook, Industry Reports	Clarity on production concepts	Issues in understanding short-run vs long-run production	Simplified concept explanations (Red Flag) ○ Group discussions on case studies (White Flag)

							Research on firm production (Green Flag)
Cost	Explain cost concepts and cost curves	Lecture, Visual Aids, Cost Data	Real-life cost calculation, Diagram plotting	Textbook, Industry Case Studies	Understanding of cost behavior	Difficulty in drawing cost curves	Extra graphical practice (Red Flag) ○ Peer teaching activities (White Flag) Real-world cost analysis (Green Flag)
Revenue	Identify types of revenue and their significance	Lecture, Graphs, Practical Applications	Revenue comparison, Case study on companies	Textbook, Financial Reports	Knowledge of revenue sources	Confusion in distinguishing total, average, and marginal revenue	Step-by-step revenue breakdown (Red Flag) ○ Small group problem-solving (White Flag) Advanced revenue model analysis (Green Flag)
Producer's Equilibrium	Explain profit maximization concepts	Lecture, Graphs, Application in Real Life	Business strategy game, Profit maximization problems	Textbook, Business Reports	Understanding of equilibrium conditions	Issues in $MR=MC$ application	Extra numerical practice (Red Flag) ○ Peer discussion and explanation (White Flag) Independent profit study (Green Flag)
Supply	Analyze factors affecting supply, Law of supply	Lecture, Visual Aids, Market Trends	Market simulation, Supply curve plotting	Textbook, Industry Trends	Understanding of supply determinants	Confusion in shifts vs movement along supply curve	Hands-on supply curve drawing (Red Flag) ○ Group market discussions (White Flag) Industry-based research (Green Flag)
Main Market Forms	Differentiate types of market structures	Lecture, Case Study, Market Research	Comparison of real-world markets, Debate	Textbook, Business Articles	Awareness of perfect & imperfect competition	Issues in recognizing market structures	Simple case study analysis (Red Flag) ○ Group debates on market structures (White Flag) Research on different industries (Green Flag)
Price Determination & Applications	Understand equilibrium price and real-world pricing	Lecture, Graphs, Market Analysis	Price determination simulations, Pricing strategy case studies	Textbook, Market Data	Understanding of price mechanisms	Struggles with demand-supply equilibrium	Guided numerical problem-solving (Red Flag) ○ Peer group activities (White Flag) Research on pricing strategies (Green Flag)
Economics: An Introduction	Understand basic economic concepts and their relevance	Lecture, Discussion, Real-life examples	Concept mapping, Group discussions	Textbook, Articles, Videos	Clarity on fundamental terms	Confusion in distinguishing micro & macroeconomics	One-on-one revision (Red Flag) ○ Group quiz (White Flag)

							Advanced case studies (Green Flag)
Meaning, Scope and Importance of Statistics	Explain the role of statistics in economics	Lecture, Case Study, Data Analysis	Data collection exercises, Statistical analysis	Textbook, Research Papers	Awareness of statistical importance	Difficulty in interpreting statistical data	Step-by-step data interpretation (Red Flag) ○ Group exercises (White Flag) Independent statistical projects (Green Flag)
Collection of Data	Understand methods of data collection	Lecture, Surveys, Real-world Examples	Conducting surveys, Data collection	Textbook, Survey Reports	Understanding of data sources	Struggles with primary vs secondary data	Guided exercises on data types (Red Flag) ○ Peer learning sessions (White Flag) Real-life data collection projects (Green Flag)
Organisation of Data	Learn how to organize collected data	Lecture, Hands-on Exercises, Graphical Representation	Organizing raw data, Data tabulation	Textbook, Online Databases	Knowledge of data structuring	Issues in systematic data arrangement	Extra practice with datasets (Red Flag) ○ Group discussions (White Flag) Advanced data structuring exercises (Green Flag)
Tabular Presentation	Develop skills in tabular representation of data	Lecture, Practical Examples, Tables	Creating statistical tables, Organizing numerical data	Textbook, Data Reports	Understanding tabulation	Confusion in formatting tables	Step-by-step table formatting guide (Red Flag) ○ Peer table evaluation (White Flag) Case study-based table creation (Green Flag)
Diagrammatic Presentation	Represent economic data using diagrams	Lecture, Diagram Analysis, Real-world Examples	Creating bar diagrams, Pie charts	Textbook, Market Reports	Understanding of visual data representation	Difficulty in selecting appropriate diagrams	Guided practice with diagrams (Red Flag) ○ Peer feedback on diagrams (White Flag) Independent diagrammatic research (Green Flag)
Graphic Presentation	Use graphical tools to analyze data trends	Lecture, Graph Interpretation, Real Data Examples	Drawing line graphs, Histogram creation	Textbook, Market Graphs	Knowledge of graphical trends	Issues in understanding graph scales	Extra graphical practice (Red Flag) ○ Peer learning activities (White Flag) Real-world data graph analysis (Green Flag)
Measures of Central Tendency -	Explain mean as a measure of central tendency	Lecture, Numerical	Mean calculation	Textbook, Statistical Software	Understanding mean calculation	Struggles with complex data sets	Guided numerical problem-solving (Red Flag)

Arithmetic Mean		Practice, Graphs	exercises, Data analysis				<ul style="list-style-type: none"> ○ Small group problem-solving (White Flag) Advanced mean-based research (Green Flag)
Measures of Central Tendency - Median and Mode	Explain median and mode as measures of central tendency	Lecture, Practical Applications, Case Studies	Median and mode calculation, Real-life applications	Textbook, Statistical Tools	Understanding of median and mode	Confusion in choosing between measures	<ul style="list-style-type: none"> Step-by-step comparison exercises (Red Flag) ○ Peer discussion and explanation (White Flag) Research-based case studies (Green Flag)
Measures of Correlation	Explain the concept of correlation and its importance	Lecture, Graphs, Data Interpretation	Correlation coefficient calculation, Case studies	Textbook, Business Data	Understanding of correlation applications	Difficulty in interpreting correlation coefficients	<ul style="list-style-type: none"> Extra numerical practice (Red Flag) ○ Peer discussion and explanation (White Flag) Advanced correlation analysis (Green Flag)
Index Numbers	Explain the role and calculation of index numbers	Lecture, Real-World Data, Statistical Applications	Index number calculation, CPI and WPI analysis	Textbook, Market Reports	Awareness of economic indicators	Confusion in different index number formulas	<ul style="list-style-type: none"> Guided numerical practice (Red Flag) ○ Small group discussions (White Flag) Independent research on index trends (Green Flag)

PHYSICAL EDUCATION

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified & Remedials
Changing Trends and Career in Physical Education	Understand evolving trends and career opportunities in physical education.	Lecture, discussions, career counseling.	Career exploration activities, guest lectures.	Career guides, industry reports, online resources.	Awareness of career paths.	Limited exposure to non-traditional careers. More industry interactions needed.
Olympic Value Education	Learn about Olympic history, values, and ethics in sports.	Case studies, storytelling, discussions.	Analysis of Olympic events, role-playing activities.	Videos, Olympic archives, official reports.	Understanding of Olympic ideals.	Lack of connection between values and practical application. More real-life examples needed.
Yoga	Develop knowledge and practice of yoga for health and wellness.	Practical demonstrations, theoretical explanations.	Yoga sessions, breathing exercises.	Yoga mats, videos, instructor-led classes.	Improved flexibility and mental focus.	Difficulty in performing advanced postures. More progressive training required.

Physical Education and Sports for CWSN	Understand inclusive sports and physical activities for CWSN.	Inclusive education methods, demonstrations.	Adaptive sports activities, role-playing.	Assistive devices, case studies, videos.	Increased awareness of inclusive sports.	Lack of proper training in adaptive techniques. More hands-on experience needed.
Physical Fitness, Wellness, and Lifestyle	Develop awareness of fitness components and healthy lifestyle habits.	Fitness assessments, wellness coaching.	Physical activities, diet tracking.	Fitness apps, gym equipment, health journals.	Improved awareness of fitness and wellness.	Lack of consistent implementation. More personalized fitness plans needed.
Test, Measurements, and Evaluation	Learn methods for assessing physical fitness and sports performance.	Hands-on measurement techniques, data analysis.	Conducting physical fitness tests.	Testing tools, evaluation sheets, software.	Ability to assess and interpret data.	Difficulty in accurate test implementation. More practical training required.
Fundamentals of Anatomy and Physiology in Sports	Understand the structure and function of the human body in sports.	Diagrams, models, practical experiments.	Body movement analysis, group discussions.	Anatomy charts, 3D models, lab activities.	Clear understanding of body functions.	Difficulty in linking theory to performance. More real-life examples needed.
Fundamentals of Kinesiology and Biomechanics in Sports	Apply biomechanical principles to sports movements.	Motion analysis, video-based learning.	Posture correction activities, case studies.	Video analysis software, motion sensors.	Improved knowledge of movement mechanics.	Limited understanding of complex biomechanical concepts. More hands-on activities needed.
Psychology and Sports	Understand psychological factors affecting sports performance.	Discussions, case studies, role-playing.	Motivational training, stress management exercises.	Psychology books, expert talks, mental training tools.	Better awareness of mental preparation in sports.	Limited application of sports psychology. More athlete case studies needed.
Training and Doping in Sports	Understand training methods and the impact of doping in sports.	Lecture-based discussions, case studies.	Analyzing real-life doping cases, ethical debates.	Anti-doping agency reports, videos, research papers.	Better understanding of ethical sports training.	Lack of awareness of anti-doping regulations. More workshops on doping prevention needed.

INFORMATICS PRACTICES (IP)

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
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Chapter 1: Computer System	1. Understand components of a computer system. 2. Identify software and hardware requirements.	- Interactive discussions - Visual presentations	- Identify components in a real system - Compare different OS features	- Computers, projectors, charts	Students will be able to identify and explain computer components.	Confusion in differentiating software categories.	- Green Flag: Research on modern hardware - White Flag: Label computer components - Red Flag: Identify OS features
Chapter 2: Emerging Trends	1. Identify latest IT trends. 2. Explain applications of AI, IoT, and cloud computing.	- Group discussions - Case studies	- Research on AI applications - Cloud computing simulation	- Online articles, videos	Students will understand emerging trends in IT.	Difficulty in distinguishing AI from automation.	- Green Flag: AI project research - White Flag: List latest IT trends - Red Flag: Identify AI vs. automation
Chapter 3: Brief Overview of Python	1. Write and execute basic Python programs. 2. Understand syntax and semantics.	- Hands-on coding - Live demonstrations	- Write simple Python scripts - Debugging exercises	- Python IDE, laptops	Students will be able to write and run Python programs.	Struggle with syntax errors.	- Green Flag: Code simple problems - White Flag: Correct syntax errors - Red Flag: Debug given codes
Chapter 4: Working with Lists and Dictionaries	1. Understand lists and dictionaries in Python. 2. Perform operations on lists and dictionaries.	- Practical coding exercises - Concept visualization	- Implement lists and dictionaries in Python programs - Debug errors in list operations	- Python documentation, IDE	Students will use lists and dictionaries efficiently.	Difficulty in differentiating mutable and immutable types.	- Green Flag: Identify mutable vs. immutable types - White Flag: List dictionary methods - Red Flag: Solve list-based problems
Chapter 5: Understanding Data	1. Understand data collection and processing. 2. Learn statistical techniques for data processing.	- Case studies - Data visualization exercises	- Collect and analyze real-world data - Implement basic statistical operations	- Online datasets, visualization tools	Students will grasp data handling and processing concepts.	Difficulty in selecting appropriate statistical techniques.	- Green Flag: Compare statistical methods - White Flag: Identify data types - Red Flag: Solve basic data problems
Chapter 7: Database Concepts	1. Understand database fundamentals. 2. Differentiate between RDBMS and DBMS.	- Conceptual lectures - Practical SQL demonstrations	- Identify database components - Compare relational vs. non-relational databases	- SQL tutorials, MySQL server	Students will grasp database structures and types.	Confusion between primary key and foreign key.	- Green Flag: List DBMS vs. RDBMS features - White Flag: Identify keys in a table - Red Flag: Practice SQL queries

Chapter 8: Introduction to Structured Query Language (SQL)	1. Perform CRUD operations using SQL. 2. Use queries to retrieve data.	- Hands-on SQL practice - Query debugging	- Write and execute SQL queries - Perform joins and aggregations	- SQL editor, databases	Students will be able to write efficient queries.	Difficulty in understanding joins.	- Green Flag: Solve query-based exercises - White Flag: Identify query types - Red Flag: Execute basic SELECT queries
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****Note:**** Chapter 6 (Introduction to NumPy) is excluded as per syllabus requirements.

ENGLISH

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
The Portrait of a Lady	1. Analyze the relationship between the narrator and his grandmother. 2. Identify the themes of love, aging, and change.	Storytelling, Discussion	Character sketch, Personal reflection writing	NCERT Textbook	Understanding human emotions and relationships	Difficulty in understanding symbolism	Red Flag: Simplified explanation White Flag: Group discussions Green Flag: Writing an alternate perspective
We're Not Afraid to Die... If We Can All Be Together	1. Understand the themes of courage and resilience. 2. Analyze the impact of teamwork and family support.	Narrative discussion, Case studies	Survival story writing, Group discussion on teamwork	NCERT Textbook	Understanding survival instincts	Difficulty in relating to extreme survival situations	Red Flag: Timeline of events White Flag: Discussions Green Flag: Research on real survival stories
Discovering Tut: The Saga Continues	1. Learn about archaeological findings and historical mysteries. 2. Analyze how science helps uncover history.	Documentary analysis, Discussion	Research on other famous archaeological discoveries, Writing a report	NCERT Textbook, Videos	Awareness of ancient civilizations	Difficulty in linking history and science	Red Flag: Visual timeline White Flag: Discussions Green Flag: Research on another archaeological find
The Adventure	1. Understand the concept of alternate realities. 2. Analyze the mix of history and science fiction.	Storytelling, Discussion	Writing a short science fiction story, Group discussion	NCERT Textbook	Understanding time travel and alternate realities	Difficulty in grasping the concept of parallel worlds	Red Flag: Visual aids White Flag: Group discussions Green Flag: Writing an alternate ending

Silk Road	1. Explore the cultural and geographical significance of the Silk Road. 2. Analyze the author's journey and experiences.	Travel writing, Discussion	Map marking, Descriptive writing on a journey	NCERT Textbook, Maps	Understanding historical trade routes	Difficulty in understanding travel literature	Red Flag: Picture-based learning White Flag: Group discussions Green Flag: Research on other ancient trade routes
Poetry							
A Photograph	1. Understand the themes of nostalgia and loss. 2. Analyze poetic devices used in the poem.	Recitation, Discussion	Writing a personal reflection on an old photograph	NCERT Textbook, Audio clips	Awareness of emotions in poetry	Difficulty in interpreting deeper meanings	Red Flag: Poetic device worksheet White Flag: Poem discussions Green Flag: Writing a personal memory poem
The Laburnum Top	1. Analyze the symbolism in nature poetry. 2. Understand the poet's perspective on transformation.	Recitation, Discussion	Symbolism analysis, Creative writing inspired by nature	NCERT Textbook	Understanding poetic imagery	Difficulty in recognizing symbols	Red Flag: Visual representation White Flag: Group discussions Green Flag: Writing a nature-inspired poem
English Writing							
Note-Making and Summarization	1. Learn to extract key information. 2. Develop concise writing skills.	Demonstration, Practice	Summarizing a passage, Note-making from a lecture	Sample notes	Mastering the skill of condensing information	Struggle in identifying main points	Red Flag: Guided practice White Flag: Peer review Green Flag: Summarizing a real-world article
Classified Advertisements	1. Learn different types of advertisements. 2. Understand format and brevity in writing.	Explanation, Practice	Writing classified ads for various purposes	Sample advertisements	Understanding concise communication	Difficulty in structuring ads	Red Flag: Format templates White Flag: Group activities Green Flag: Writing real-world advertisements
Speech Writing	1. Structure an effective speech. 2. Use persuasive language techniques.	Explanation, Practice	Writing and delivering a speech, Peer review	Sample speeches, Videos	Mastering formal and persuasive speaking	Struggle in organizing speech points	Red Flag: Guided outlines White Flag: Class discussions Green Flag: Writing and delivering an impromptu speech
Debate Writing	1. Develop strong argumentative skills. 2. Use logical reasoning	Debate, Writing practice	Conducting a debate, Writing arguments	Sample debates, News articles	Ability to present arguments clearly	Difficulty in rebuttals	Red Flag: Step-by-step guidance White Flag: Practice debates

	and counterarguments effectively.		for/against a motion				Green Flag: Research on controversial topics
English Grammar							
Clauses	1. Identify different types of clauses. 2. Use clauses effectively in writing.	Sentence analysis, Practice worksheets	Combining sentences using clauses, Clause identification exercise	Grammar workbook	Understanding sentence structure	Confusion in dependent and independent clauses	Red Flag: Visual charts White Flag: Group exercises Green Flag: Writing complex sentences with varied clauses
Reordering of Sentences	1. Learn to arrange jumbled sentences correctly. 2. Improve logical sentence flow.	Exercises, Practice drills	Rearranging jumbled sentences, Writing coherent paragraphs	Grammar workbook	Improved sentence structuring	Struggle in maintaining logical order	Red Flag: Step-by-step exercises White Flag: Group discussions Green Flag: Writing a short story with restructured sentences
Transformation of Sentences	1. Convert sentences into different grammatical forms. 2. Understand how sentence structure affects meaning.	Explanation, Sentence transformation	Converting statements into different forms (negative, interrogative, exclamatory)	Grammar workbook	Mastery of varied sentence structures	Confusion in applying transformation rules	Red Flag: Guided practice White Flag: Sentence conversion drills Green Flag: Writing a passage using different sentence transformations

PHYSICS

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
Mathematical Tools	Understand mathematical concepts used in physics.	Problem-solving, concept-based learning.	Solve mathematical problems.	Mathematics reference books.	Students develop mathematical skills.	Difficulty in applying calculus to physics.	Green Flag: Solve advanced calculus problems. White Flag: Identify key mathematical formulas. Red Flag: Discuss real-world

							applications of mathematics in physics.
Units and Measurements	Learn SI units, dimensional analysis, errors in measurement.	Demonstrations, unit conversions.	Measure physical quantities.	Measuring instruments, physics lab.	Students grasp measurement techniques.	Confusion in error calculations.	Green Flag: Compare different unit systems. White Flag: Identify SI units. Red Flag: Discuss significance of precision in measurements.
Motion in a Straight Line	Understand displacement, velocity, acceleration.	Graphical analysis, motion equations.	Plot motion graphs.	Graph paper, physics simulations.	Students analyze motion patterns.	Difficulty in differentiating velocity and acceleration.	Green Flag: Solve kinematic equations. White Flag: Identify types of motion. Red Flag: Discuss real-life motion scenarios.
Motion in a Plane	Learn projectile motion, vectors, and relative velocity.	Vector analysis, practical demonstrations.	Conduct projectile motion experiments.	Physics models, simulations.	Students understand 2D motion.	Struggles with vector resolution.	Green Flag: Compare different types of projectile motion. White Flag: Define vector components. Red Flag: Discuss real-world applications of vectors.
Laws of Motion	Understand Newton's laws and their applications.	Force analysis, problem-solving.	Demonstrate inertia and friction.	Spring balance, pulleys.	Students grasp force and motion.	Confusion in third law applications.	Green Flag: Solve force equilibrium problems. White Flag: Identify action-reaction forces. Red Flag: Discuss implications of Newton's laws in daily life.
Work, Energy, and Power	Learn work-energy theorem, conservation of energy.	Practical demonstrations, numerical problem-solving.	Calculate work done in real situations.	Dynamometers, pendulums.	Students understand energy transformation.	Difficulty in work-energy relation.	Green Flag: Compare kinetic and potential energy. White Flag: Identify types of mechanical

							energy. Red Flag: Discuss conservation of energy examples.
System of Particles and Rotational Motion	Analyze motion of rigid bodies and rotational dynamics.	Experiments, torque analysis.	Study rotational equilibrium.	Rotational apparatus, physics lab.	Students understand moment of inertia.	Confusion in torque and angular momentum.	Green Flag: Solve rotational motion problems. White Flag: Identify key rotational motion equations. Red Flag: Discuss real-life examples of rotational motion.
Gravitation	Understand Newton's law of gravitation and planetary motion.	Orbital motion analysis, problem-solving.	Simulate gravitational force effects.	Gravity simulators, NASA models.	Students grasp gravitational force.	Difficulty in Kepler's laws applications.	Green Flag: Compare Earth's and Moon's gravity. White Flag: Identify factors affecting gravity. Red Flag: Discuss importance of gravitation in space exploration.
Mechanical Properties of Solids and Fluids	Learn elasticity, viscosity, fluid dynamics.	Practical experiments, case studies.	Study stress-strain behavior.	Springs, fluid containers.	Students understand material properties.	Confusion in Poiseuille's equation.	Green Flag: Compare different materials' elasticity. White Flag: Define stress and strain. Red Flag: Discuss applications of fluid mechanics.
Thermal Properties of Matter	Understand heat transfer, thermal expansion.	Experiments on conduction, convection, radiation.	Study expansion of solids and liquids.	Thermometers, calorimeters.	Students grasp thermal properties.	Difficulty in differentiating heat and temperature.	Green Flag: Compare different heat transfer methods. White Flag: Identify types of thermal expansion. Red Flag: Discuss applications of thermal properties.
Thermodynamics	Learn laws of thermodynamics and heat engines.	Case studies, heat engine analysis.	Study entropy changes.	Thermal engines, PV diagrams.	Students recognize	Confusion in entropy concept.	Green Flag: Compare heat engines. White Flag: Identify

					energy transfer principles.		thermodynamic processes. Red Flag: Discuss real-life examples of thermodynamics.
Kinetic Theory of Gases	Understand gas laws, kinetic theory postulates.	Simulations, problem-solving.	Study Maxwell's distribution.	Gas law models, physics simulations.	Students grasp microscopic behavior of gases.	Struggles with pressure-volume relations.	Green Flag: Compare real and ideal gases. White Flag: Identify gas law equations. Red Flag: Discuss significance of kinetic energy in gases.
Oscillations	Learn simple harmonic motion, damped oscillations.	Pendulum experiments, wave simulations.	Analyze motion of a simple pendulum.	Spring-mass systems, graphs.	Students understand periodic motion.	Difficulty in phase difference concepts.	Green Flag: Compare different types of oscillations. White Flag: Identify SHM parameters. Red Flag: Discuss damping and resonance effects.
Waves	Understand types of waves, wave speed, Doppler effect.	Water wave experiments, tuning forks.	Demonstrate interference and diffraction.	Sound tubes, ripple tanks.	Students grasp wave mechanics.	Confusion in longitudinal and transverse waves.	Green Flag: Compare sound and light waves. White Flag: Identify parts of a wave. Red Flag: Discuss applications of the Doppler effect.

MATHEMATICS

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
Sets	Understand set operations and apply in real life.	Interactive discussion, problem-solving.	Venn Diagram representation.	Textbooks, charts.	Solve set problems.	Difficulty differentiating sets.	Practice Venn diagrams.
Trigonometry	Learn trigonometric functions and identities.	Lecture, derivations, applications.	Measure angles, solve problems.	Graph papers, protractors.	Apply identities in problems.	Difficulty memorizing formulas.	Practice basic problems.
Relation and Function	Analyze functions, domain, and range.	Graphical representation.	Graph functions, mapping.	Graph sheets, software.	Graph and analyze functions.	Confusion in domain-range.	Practice graphing functions.

Linear Inequalities	Solve and apply inequalities.	Graphing and solving techniques.	Graph linear inequalities.	Graph sheets, markers.	Solve and graph inequalities.	Difficulty with notation.	Practice inequality notation.
Complex Numbers and Quadratic Equations	Understand imaginary numbers.	Algebraic manipulation.	Plot numbers on Argand plane.	Graph paper, tools.	Solve quadratic equations.	Confusion in imaginary unit.	Perform arithmetic operations.
Permutations and Combinations	Apply counting principles.	Factorial concepts, applications.	Arrange objects, solve problems.	Playing cards, sheets.	Apply counting effectively.	Difficulty differentiating methods.	Identify when to use permutations.
Binomial Theorem	Expand expressions using binomial coefficients.	Pascal's Triangle, expansions.	Expand polynomials.	Number charts, expressions.	Apply binomial expansion.	Confusion in coefficients.	Use Pascal's Triangle.
Sequence and Series	Analyze arithmetic and geometric progressions.	Formula derivation.	Solve sum problems.	Algebraic formulas, sheets.	Compute series sum.	Difficulty applying formulas.	Practice sum formulas.
Straight Lines	Derive line equations and understand slopes.	Graphical plotting.	Find distance, midpoint.	Geometry tools.	Use straight-line equations.	Understanding slopes.	Graph straight lines.
Conic Sections	Explore circles, ellipses, etc.	Equation derivations.	Identify conic sections.	Graph papers, models.	Analyze conic sections.	Confusion in conic types.	Identify conic equations.
Three-Dimensional Geometry	Understand 3D coordinate systems.	3D plotting exercises.	Solve distance formula problems.	3D models, software.	Solve basic 3D problems.	Difficulty visualizing 3D.	Apply distance formula.
Limits and Derivatives	Learn calculus concepts.	Graphical interpretations.	Differentiate functions.	Graph paper, tables.	Compute derivatives.	Understanding differentiation.	Apply limit formulas.
Statistics	Apply statistical measures.	Data collection, representation.	Conduct surveys.	Graph sheets, tools.	Calculate statistics accurately.	Interpreting data.	Compute basic statistics.
Probability	Understand probability rules.	Experimental exercises.	Toss coins, roll dice.	Coins, dice, charts.	Compute probability.	Understanding distributions.	Apply probability formulas.

POLITICAL SCIENCE

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
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Constitution: Why and How	Understand the importance and making of the Indian Constitution.	Debates, documentary analysis.	Study the Constituent Assembly debates.	Indian Constitution, historical records.	Students grasp constitutional significance.	Confusion in drafting process.	Green Flag: Compare different countries' Constitutions. White Flag: Identify key members of the Constituent Assembly. Red Flag: Discuss importance of constitutional amendments.
Rights in the Indian Constitution	Analyze fundamental rights and their significance.	Case law analysis, discussions.	Study landmark Supreme Court judgments.	Preamble	Students understand rights and freedoms.	Difficulty in linking rights to responsibilities.	Green Flag: Compare fundamental rights and duties. White Flag: Identify six fundamental rights. Red Flag: Discuss role of judiciary in protecting rights.
Elections and Representation	Understand the electoral system and representation in democracy.	Mock elections, debates.	Analyze Indian election processes.	Election Commission reports, voter guides.	Students grasp election procedures.	Confusion in proportional vs. first-past-the-post system.	Green Flag: Compare different electoral systems. White Flag: Identify functions of the Election Commission. Red Flag: Discuss importance of fair elections.
Executive	Learn about the role and functions of the executive.	Case studies, governance models.	Study powers of the President and Prime Minister.	political science books.	Students recognize executive authority.	Difficulty in distinguishing executive roles.	Green Flag: Compare Indian and US executive systems. White Flag: Identify roles of executive members. Red Flag: Discuss impact of coalition governments on executive power.
Legislative	Understand the structure and	Debates, parliamentary procedures.	Analyze real parliamentary sessions.	Lok Sabha and Rajya	Students grasp law-making process.	Confusion in bicameralism concept.	Green Flag: Compare Rajya Sabha and Lok Sabha.

	functioning of Parliament.			Sabha proceedings.			White Flag: Identify legislative powers. Red Flag: Discuss importance of committees in legislation.
Judiciary	Analyze the role of the judiciary in democracy.	Mock trials, case law studies.	Study landmark court rulings.	Supreme Court judgments, legal texts.	Students understand judicial review.	Difficulty in distinguishing judicial independence.	Green Flag: Compare different judicial systems. White Flag: Identify powers of the Supreme Court. Red Flag: Discuss importance of PIL (Public Interest Litigation).
Federalism	Understand the division of powers between central and state governments.	Case studies, comparative analysis.	Study federal structure of India.	Case Study	Students recognize federal dynamics.	Confusion in concurrent and residual powers.	Green Flag: Compare Indian and US federalism. White Flag: Identify federal and unitary features. Red Flag: Discuss challenges to Indian federalism.
Local Government	Analyze the role and significance of local governance.	Field visits, surveys.	Study Panchayati Raj and municipalities.	Local governance reports, Gram Sabha proceedings.	Students grasp grassroots democracy.	Difficulty in understanding decentralization.	Green Flag: Compare rural and urban local governance. White Flag: Identify powers of local bodies. Red Flag: Discuss impact of 73rd and 74th Amendments.
Constitution as a Living Document	Understand the adaptability of the Constitution.	Case studies, discussions.	Analyze amendments and judicial interpretations.	Constitutional amendments, court rulings.	Students grasp constitutional flexibility.	Confusion in judicial activism vs. judicial overreach.	Green Flag: Compare flexible and rigid Constitutions. White Flag: Identify major constitutional amendments. Red Flag: Discuss role of the judiciary

							in constitutional interpretation.
The Philosophy of the Indian Constitution	Analyze the ideals enshrined in the Constitution.	Debates, textual analysis.	Study the Preamble in depth.	debate	Students grasp constitutional philosophy.	Difficulty in understanding socialist, secularist principles.	Green Flag: Compare philosophical ideals across different constitutions. White Flag: Identify key values of the Preamble. Red Flag: Discuss importance of secularism in democracy.
Political Theory	Understand core political concepts like power, authority, legitimacy.	Theoretical discussions, group debates.	Study political ideologies and governance.	Political philosophy books, case studies.	Students grasp basic political thought.	Confusion in distinguishing between ideologies.	Green Flag: Compare democracy and authoritarianism. White Flag: Identify types of political ideologies. Red Flag: Discuss impact of political philosophy on governance.
Freedom	Analyze the meaning and limitations of freedom.	Case studies, philosophical discussions.	Study different concepts of freedom.	Political theory books, human rights reports.	Students understand civil liberties.	Difficulty in linking freedom to equality.	Green Flag: Compare positive and negative liberty. White Flag: Identify key thinkers on freedom. Red Flag: Discuss contemporary issues related to freedom.
Equality	Learn about political, social, and economic equality.	Theoretical debates, data analysis.	Study affirmative action policies.	Government policies, social justice reports.	Students recognize importance of equality.	Confusion in equality vs. equity.	Green Flag: Compare different types of equality. White Flag: Identify laws promoting equality. Red Flag: Discuss impact of caste and gender on equality.

Social Justice	Understand the concept of justice in a democratic society.	Case studies, policy analysis.	Study impact of reservation policies.	Legal case files, social justice movements.	Students grasp social justice frameworks.	Difficulty in understanding distributive justice.	Green Flag: Compare Rawls' and Ambedkar's views on justice. White Flag: Identify key policies for social justice. Red Flag: Discuss effectiveness of affirmative action policies.
Rights	Analyze different types of rights and their enforcement.	Human rights case studies, debates.	Study national and international rights frameworks.	UN Human Rights documents, legal texts.	Students understand significance of rights.	Confusion in natural vs. legal rights.	Green Flag: Compare civil, political, and socio-economic rights. White Flag: Identify fundamental rights. Red Flag: Discuss role of NHRC in human rights protection.
Citizenship	Learn about the meaning, rights, and duties of citizenship.	Comparative studies, debates.	Study different models of citizenship.	Government records, citizenship laws.	Students grasp responsibilities of citizens.	Confusion in naturalization and dual citizenship.	Green Flag: Compare Indian and global citizenship laws. White Flag: Identify different types of citizenship. Red Flag: Discuss role of active citizenship in democracy.
Nationalism	Understand the evolution and impact of nationalism.	Historical analysis, debates.	Study nationalist movements worldwide.	Freedom struggle records, political theory books.	Students recognize nationalist ideologies.	Difficulty in distinguishing cultural and political nationalism.	Green Flag: Compare different types of nationalism. White Flag: Identify key nationalist movements. Red Flag: Discuss role of nationalism in modern politics.

HISTORY

Theme	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
Writing and City Life	Understand the rise of writing and urbanization in Mesopotamia.	Source-based analysis, discussions.	Study ancient cuneiform texts and city layouts.	Archaeological reports, historical documents.	Students recognize early urban societies.	Difficulty in linking writing to administration.	Green Flag: Compare early writing systems. White Flag: Identify features of Mesopotamian cities. Red Flag: Discuss role of trade in early city life.
An Empire Across Three Continents	Analyze the expansion and governance of the Roman Empire.	Case studies, map analysis.	Study political and economic structures of Rome.	Roman history books, archaeological sources.	Students grasp empire administration.	Confusion in understanding decline of Rome.	Green Flag: Compare Roman and modern governance. White Flag: Identify key Roman emperors. Red Flag: Discuss reasons for Roman Empire's fall.
Nomadic Empire	Understand the Mongol Empire and its impact.	Comparative studies, documentary screenings.	Study Mongol military strategies.	Historical maps, biographies of Genghis Khan.	Students grasp Mongol expansion.	Difficulty in linking Mongol policies to trade.	Green Flag: Compare Mongol and other empires. White Flag: Identify major Mongol conquests. Red Flag: Discuss impact of Mongol rule on world trade.
The Three Orders	Analyze feudal society and its structure.	Role-plays, social structure diagrams.	Compare roles of clergy, nobility, and peasants.	Medieval history books, feudal law texts.	Students recognize medieval hierarchy.	Confusion in understanding feudal obligations.	Green Flag: Compare feudalism in Europe and Japan. White Flag: Identify roles in medieval society. Red Flag: Discuss impact of feudalism on economy.
Changing Cultural Traditions	Understand Renaissance, humanism, and Reformation.	Art analysis, historical debates.	Study famous works of Renaissance artists.	Paintings, manuscripts, philosophy books.	Students grasp impact of cultural shifts.	Difficulty in linking science to humanism.	Green Flag: Compare Renaissance and medieval thought. White Flag: Identify key Renaissance figures.

							Red Flag: Discuss role of printing press in cultural change.
Path to Modernisation	Analyze the Industrial Revolution and political transformations.	Comparative case studies, economic analysis.	Study technological innovations and their impact.	Economic reports, factory records.	Students recognize industrial and social change.	Confusion in linking industrialization to urbanization.	Green Flag: Compare pre-industrial and post-industrial economies. White Flag: Identify key industrial inventions. Red Flag: Discuss impact of industrialization on labor and society.
Displacing Indigenous People	Understand European colonization and its effects on native societies.	Historical analysis, documentary reviews.	Study case studies of Native Americans and Australian Aborigines.	Colonial records, ethnographic studies.	Students grasp impact of displacement.	Difficulty in linking colonization to modern inequalities.	Green Flag: Compare different colonial policies. White Flag: Identify major indigenous groups affected by colonization. Red Flag: Discuss long-term consequences of displacement.

ACCOUNTANCY

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
Accounting							
Introduction to Accounting	1. Understand the meaning and objectives of accounting. 2. Learn about the users of accounting information.	Lecture, Case studies	Identifying different users of financial data, Discussion on the importance of accounting	NCERT Textbook, Business Reports	Understanding the basics of accounting	Confusion in differentiating bookkeeping and accounting	Red Flag: Simple comparison charts White Flag: Group discussions Green Flag: Research on careers in accounting

Basic Accounting Terms	1. Learn essential accounting terminologies. 2. Apply these terms in financial statements.	Concept-based teaching, Practical exercises	Identifying terms in real-life scenarios, Flashcard games	NCERT Textbook, Accounting Glossary	Mastery of accounting vocabulary	Difficulty in remembering terms	Red Flag: Flashcards White Flag: Pair work Green Flag: Writing short case studies using accounting terms
Theory Base of Accounting & Accounting Standards	1. Explain the need for accounting principles and standards. 2. Learn about Indian and international accounting standards.	Case studies, Discussion	Research on IND-AS and IFRS, Debate on global accounting policies	NCERT Textbook, Financial Reports	Awareness of accounting principles	Difficulty in understanding standardization	Red Flag: Infographics White Flag: Group discussions Green Flag: Research on real-life accounting cases
Bases of Accounting	1. Differentiate between cash and accrual accounting. 2. Analyze their impact on financial statements.	Chart-based learning, Case studies	Comparing financial statements prepared using both methods	NCERT Textbook, Sample Financial Statements	Understanding different accounting approaches	Difficulty in recognizing the significance of each method	Red Flag: Visual representation White Flag: Hands-on activities Green Flag: Research on organizations using each method
Accounting Equation	1. Explain the accounting equation and its components. 2. Learn how transactions affect financial position.	Equation-based learning, Practice worksheets	Solving accounting equations, Creating a mock balance sheet	NCERT Textbook, Business Simulations	Mastery of fundamental accounting rules	Difficulty in maintaining balance in equations	Red Flag: Step-by-step guided practice White Flag: Group exercises Green Flag: Writing business case studies
Accounting Procedures - Rules of Debit & Credit	1. Understand the rules of debit and credit. 2. Apply these rules in	Role-play, Case-based learning	Simulating real transactions in class, Writing ledger entries	NCERT Textbook, Accounting Software	Understanding dual-entry system	Confusion in applying the rules	Red Flag: Mnemonics for debit and credit rules White Flag: Peer learning activities Green Flag: Research on historical evolution of double-entry accounting

	journalizing transactions.						
Origin of Transactions	1. Learn how transactions originate. 2. Classify transactions into different categories.	Scenario-based learning, Case studies	Identifying types of transactions from real-world examples	NCERT Textbook, Business Reports	Awareness of financial transactions	Difficulty in classifying transactions correctly	Red Flag: Simple classification tables White Flag: Practical exercises Green Flag: Writing case studies on financial transactions
Journal & Ledger	1. Understand the format and purpose of journals and ledgers. 2. Learn the process of recording transactions.	Hands-on accounting practice, Discussion	Preparing journals and ledgers for a small business	NCERT Textbook, Accounting Software	Understanding financial recording	Errors in ledger posting	Red Flag: Step-by-step ledger guides White Flag: Class discussions Green Flag: Research on automation in accounting
Cash Books, Other Books & GST	1. Explain different subsidiary books in accounting. 2. Learn about GST and its impact on transactions.	Real-life case studies, Practical exercises	Maintaining a cash book, Analyzing GST invoices	NCERT Textbook, Government GST Guidelines	Awareness of modern financial recording methods	Difficulty in distinguishing different subsidiary books	Red Flag: Visual flowcharts White Flag: Practical exercises Green Flag: Research on GST implementation in businesses
Bank Reconciliation Statement	1. Understand the importance of bank reconciliation. 2. Learn to prepare a reconciliation statement.	Hands-on problem-solving, Discussion	Solving BRS problems, Analyzing real bank statements	NCERT Textbook, Sample Bank Statements	Awareness of banking procedures	Errors in adjusting transactions	Red Flag: Step-by-step reconciliation guide White Flag: Group exercises Green Flag: Research on digital banking reconciliations
Trial Balance	1. Learn how to prepare a trial balance. 2. Identify errors	Worksheet-based learning, Case studies	Preparing a trial balance for a given dataset	NCERT Textbook, Accounting Software	Understanding financial accuracy	Difficulty in balancing trial balance	Red Flag: Practice worksheets White Flag: Group exercises Green Flag: Research on automated trial balance preparation

	through trial balance.						
Depreciation	1. Explain the concept and methods of depreciation. 2. Learn about asset valuation.	Diagram-based learning, Case studies	Calculating depreciation using different methods	NCERT Textbook, Business Reports	Awareness of asset management	Confusion in applying depreciation methods	Red Flag: Formula cheat sheets White Flag: Group discussions Green Flag: Research on impact of depreciation on financial statements
Rectification of Errors	1. Identify and rectify errors in accounting records. 2. Learn the classification of errors.	Problem-solving, Case studies	Identifying errors in sample records, Correcting mistakes	NCERT Textbook, Accounting Software	Understanding error detection	Difficulty in distinguishing types of errors	Red Flag: Classification tables White Flag: Group discussions Green Flag: Research on common accounting errors in real companies
Financial Statements of Sole Proprietorship	1. Learn to prepare financial statements. 2. Understand adjustments in final accounts.	Hands-on accounting practice, Discussion	Preparing financial statements for a small business	NCERT Textbook, Business Reports	Awareness of financial management	Difficulty in making adjustments	Red Flag: Simplified adjustment techniques White Flag: Group discussions Green Flag: Research on financial statements of real businesses
Single Entry System - Incomplete Records	1. Explain single-entry accounting. 2. Analyze limitations of incomplete records.	Comparative analysis, Case studies	Converting single-entry data into double-entry	NCERT Textbook, Business Simulations	Understanding financial limitations	Difficulty in reconstructing records	Red Flag: Step-by-step conversion exercises White Flag: Group discussions Green Flag: Research on businesses using single-entry accounting

BUISNESS STUDIES

PSYCHOLOGY

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
What is Psychology?	Understand the definition, history, and scope of psychology.	Lectures, discussions.	Research major branches of psychology.	Psychology textbooks, articles.	Students recognize the importance of psychology.	Difficulty in distinguishing psychology from related fields.	Green Flag: Compare psychology with other sciences. White Flag: Define psychology and its

							branches. Red Flag: Discuss real-
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CHAPTER	LEARNING OUTCOME	PEDAGOGY	ACTIVITIES	RESOURCE	ACHIEVEMENTS	GAPS IDENTIFIED	REMEDIALS
Nature & Purpose of Business	1. Understand the objectives and significance of business. 2. Analyze different types of economic activities.	Case studies, Discussion	Identifying real-world business activities, Writing a report on local businesses	NCERT Textbook, Business Reports	Awareness of business fundamentals	Confusion between different economic activities	Red Flag: Simplified flowcharts White Flag: Group discussions Green Flag: Research on famous entrepreneurs
Forms of Business Organisation	1. Differentiate between types of business organizations. 2. Analyze advantages and disadvantages of each form.	Diagram-based explanation, Case studies	Comparing sole proprietorship, partnership, and corporations	NCERT Textbook, Business Case Studies	Understanding business structures	Difficulty in selecting the appropriate business form	Red Flag: Comparative tables White Flag: Group discussions Green Flag: Research on successful businesses in each category
Private, Public & Global Enterprises	1. Learn about ownership structures. 2. Understand the role of public and private enterprises.	Real-life case studies, Discussion	Research on multinational corporations, Debate on privatization	NCERT Textbook, Economic Reports	Awareness of business ownership	Confusion in distinguishing different types of enterprises	Red Flag: Infographics White Flag: Group discussions Green Flag: Research on government policies on privatization
Business Services	1. Identify types of business services. 2. Understand their significance in trade and commerce.	Explanation, Practical examples	Survey on local business services, Writing a case study	NCERT Textbook, Business Reports	Understanding service-based industries	Difficulty in classifying business services	Red Flag: Classification charts White Flag: Practical exercises Green Flag: Research on digital service industries
Emerging Modes of Business	1. Explain digital and e-commerce	Case studies, Digital	Research on e-commerce companies,	NCERT Textbook,	Awareness of modern business operations	Difficulty in understanding	Red Flag: Visual guides White Flag: Group discussions

	trends. 2. Understand online business models.	business analysis	Creating a business model	Business Reports		e-commerce frameworks	Green Flag: Research on start-ups and online businesses
Social Responsibility of Business & Business Ethics	1. Explain corporate social responsibility (CSR). 2. Understand ethical practices in business.	Debate, Case study analysis	Research on CSR initiatives, Writing a report on business ethics	NCERT Textbook, Company CSR Reports	Awareness of ethical business practices	Difficulty in recognizing unethical behaviors	Red Flag: Ethical case studies White Flag: Group discussions Green Flag: Research on companies with strong CSR practices
Sources of Business Finance	1. Learn about various sources of business finance. 2. Analyze the role of financial institutions.	Financial analysis, Discussion	Identifying sources of finance for businesses, Preparing financial reports	NCERT Textbook, Banking Reports	Awareness of financial management	Difficulty in choosing appropriate finance sources	Red Flag: Comparative flowcharts White Flag: Case studies Green Flag: Research on start-up funding options
Small Business & Enterprises	1. Understand the significance of small businesses. 2. Learn about government support programs.	Documentary analysis, Discussion	Research on small businesses, Writing a report on MSMEs	NCERT Textbook, MSME Reports	Awareness of entrepreneurial opportunities	Difficulty in understanding the challenges faced by small businesses	Red Flag: Infographics White Flag: Group discussions Green Flag: Research on successful small businesses
Internal Trade	1. Explain different types of internal trade. 2. Understand the role of wholesalers and retailers.	Case studies, Role-play	Conducting a mock trade fair, Writing a report on retail markets	NCERT Textbook, Trade Reports	Awareness of trade structures	Difficulty in differentiating wholesale and retail trade	Red Flag: Visual comparison charts White Flag: Hands-on trading activities Green Flag: Research on major retail chains
International Business	1. Understand globalization and international trade policies.	Case studies, Discussion	Research on global trade agreements, Writing a report	NCERT Textbook, World Trade Reports	Awareness of global trade dynamics	Difficulty in grasping complex trade regulations	Red Flag: Simplified trade policies White Flag: Group discussions Green Flag: Research on

	2. Analyze the impact of international business on the economy.		on multinational corporations				trade relations between countries
							life applications of psychology.
Methods of Enquiry in Psychology	Learn about psychological research methods and ethics.	Case studies, experiments.	Conduct a simple psychological experiment.	Research papers, experiment kits.	Students understand data collection in psychology.	Confusion in qualitative vs. quantitative methods.	Green Flag: Compare different research designs. White Flag: Identify steps in psychological research. Red Flag: Discuss ethical concerns in psychological studies.
The Bases of Human Behaviour	Analyze biological and socio-cultural influences on behavior.	Neuroscience-based discussions, video analysis.	Study brain functions related to behavior.	Brain models, MRI scans, case studies.	Students grasp the link between biology and behavior.	Difficulty in understanding neural mechanisms.	Green Flag: Compare the nervous and endocrine systems. White Flag: Identify major parts of the brain. Red Flag: Discuss genetic and environmental factors.
Human Development	Understand stages of physical, cognitive, and social development.	Developmental psychology studies, discussions.	Analyze life-span changes in individuals.	Childhood development charts, video documentaries.	Students recognize developmental milestones.	Confusion in distinguishing theories of development.	Green Flag: Compare Piaget and Erikson's theories. White Flag: Identify major developmental stages. Red Flag: Discuss impact of environment on development.
Sensory, Attentional, and Perceptual Processes	Understand sensory organs, perception, and attention.	Sensory experiments, illusions.	Conduct a perception-based experiment.	Optical illusions, reaction time tests.	Students grasp how we interpret stimuli.	Difficulty in understanding perceptual organization.	Green Flag: Compare different sensory modalities. White Flag: Identify major perceptual principles. Red Flag: Discuss real-life implications of perception errors.

Learning	Analyze classical, operant, and observational learning.	Behavioral experiments, reinforcement tasks.	Simulate conditioning experiments.	Pavlov's conditioning models, learning case studies.	Students understand learning theories.	Confusion in distinguishing learning mechanisms.	Green Flag: Compare reinforcement and punishment. White Flag: Identify key theories of learning. Red Flag: Discuss applications of conditioning in daily life.
Human Memory	Understand types, models, and processes of memory.	Memory recall exercises, discussions.	Test short-term and long-term memory.	Memory games, cognitive research papers.	Students recognize memory processes.	Difficulty in differentiating memory systems.	Green Flag: Compare different models of memory. White Flag: Identify types of memory. Red Flag: Discuss strategies to enhance memory retention.
Thinking	Analyze problem-solving, reasoning, and decision-making.	Cognitive experiments, case studies.	Solve real-life problem scenarios.	Problem-solving tasks, logical puzzles.	Students develop critical thinking skills.	Confusion in deductive vs. inductive reasoning.	Green Flag: Compare different types of thinking. White Flag: Identify cognitive biases. Red Flag: Discuss impact of emotions on decision-making.
Motivation and Emotion	Understand theories of motivation and emotions.	Case studies, motivation-based activities.	Analyze real-life examples of motivation.	Psychological motivation studies, emotional regulation exercises.	Students grasp emotional and motivational influences.	Difficulty in linking motivation to behavior.	Green Flag: Compare intrinsic and extrinsic motivation. White Flag: Identify major theories of emotion. Red Flag: Discuss role of emotional intelligence in daily life.

SOCIOLOGY

Chapter	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
Sociology, Society	Understand the nature and scope of sociology.	Lectures, discussions.	Debate on relevance of sociology in modern times.	Sociology textbooks, articles.	Students recognize importance of sociology.	Difficulty in differentiating sociology	Green Flag: Compare sociology with anthropology and political science.

						from related disciplines.	White Flag: Define sociology and its scope. Red Flag: Discuss real-world applications of sociology.
Terms, Concepts, and Their Use in Sociology	Learn key sociological concepts like status, role, norms.	Case studies, conceptual analysis.	Apply sociological terms to real-life scenarios.	Sociology dictionaries, research papers.	Students understand fundamental sociological terms.	Confusion in using sociological terminology correctly.	Green Flag: Compare different sociological perspectives. White Flag: Identify key sociological terms. Red Flag: Discuss impact of norms and values on society.
Understanding Social Institutions	Analyze family, economy, polity, religion, and education.	Comparative studies, field research.	Examine real-world examples of social institutions.	Sociological journals, research papers.	Students recognize structure and function of institutions.	Difficulty in differentiating formal and informal institutions.	Green Flag: Compare family structures across cultures. White Flag: Identify major social institutions. Red Flag: Discuss changing role of institutions.
Culture and Socialization	Understand cultural diversity and socialization processes.	Ethnographic studies, group discussions.	Analyze impact of media on socialization.	Documentaries, cultural anthropology books.	Students grasp role of culture in shaping identity.	Confusion in distinguishing norms, values, and beliefs.	Green Flag: Compare different socialization agents. White Flag: Identify components of culture. Red Flag: Discuss globalization's impact on culture.
Social Change and Social Order in Rural and Urban Society	Analyze factors influencing social change and order.	Case studies, documentary screenings.	Study rural-urban differences in modernization.	Government reports, census data.	Students understand processes of social change.	Difficulty in linking modernization to cultural change.	Green Flag: Compare social change in rural vs. urban societies. White Flag: Identify factors driving social change. Red Flag: Discuss impact of technology on society.
Introducing Western Sociologists	Study contributions of Marx, Weber, and Durkheim.	Theoretical analysis, discussions.	Apply classical theories to contemporary society.	Sociology classics, research papers.	Students recognize influence of classical sociologists.	Difficulty in applying sociological theories.	Green Flag: Compare Marx, Weber, and Durkheim. White Flag: Identify key sociological theories. Red Flag: Discuss

							relevance of classical theories today.
Indian Sociology	Understand contributions of Indian sociologists like Ghurye and Srinivas.	Research-based learning, comparative studies.	Analyze caste and social stratification in India.	Indian sociology books, case studies.	Students grasp Indian sociological perspectives.	Confusion in distinguishing classical and contemporary Indian sociology.	Green Flag: Compare caste and class in India. White Flag: Identify contributions of key Indian sociologists. Red Flag: Discuss impact of globalization on Indian society.

PAINTING

Chapter	Learning Outcomes	Pedagogy Used	Activities	Resources	Achievements	Gaps Identified	Remedials
Ch-1: Prehistoric Rock Paintings and Art of Indus Valley	1. Understand the significance of prehistoric art. 2. Identify features of Indus Valley art.	Lecture, Visual Aids, Discussion	1. Visual analysis of prehistoric cave paintings. 2. Clay modeling of Indus Valley seals.	Images of cave paintings, Clay, Tools	Students will recognize early art forms and their cultural significance.	Difficulty in relating prehistoric art to modern times.	Red Flag: Extra explanation with visual aids. White Flag: Group discussion on cave paintings. Green Flag: Research and presentation on prehistoric art forms worldwide.
Ch-2: Buddhist, Jain, and Hindu Art	1. Compare artistic styles in Buddhist, Jain, and Hindu art. 2. Analyze the symbolism in religious sculptures.	Storytelling, PPT Presentation, Group Discussion	1. Comparing different sculptures through pictures. 2. Group discussions on religious symbolism.	PPTs, Sculpture Images	Students will identify differences and similarities in these art forms.	Complexity in understanding abstract symbolism.	Red Flag: Simplified handouts with key points. White Flag: Pair work for analyzing sculptures. Green Flag: Writing an essay on artistic similarities and differences.
Ch-3: Temple Sculpture, Bronze, and Indo-Islamic Architecture	1. Study the evolution of temple sculptures. 2. Understand Indo-Islamic architectural features.	Field Visits, Case Studies, Videos	1. Sketching temple structures. 2. Comparative study of temple and Indo-Islamic architecture.	Site visits, Sketching materials, Documentary	Ability to differentiate architectural elements of different periods.	Limited access to real-life structures for deeper learning.	Red Flag: Extra video lectures on architecture. White Flag: Identifying architectural elements in pictures. Green Flag: Writing a report comparing two architectural styles.

Ch-4: Artistic Aspect of Indian Temple	1. Understand artistic elements in Indian temples. 2. Examine different temple styles across India.	Visual Aids, Lecture, Discussion	1. Drawing different temple styles. 2. Presentation on famous temples.	Reference books, Temple images	Awareness of diverse temple architecture styles.	Difficulty in memorizing detailed architectural styles.	Red Flag: Flashcards with temple features. White Flag: Labeling temple elements in pictures. Green Flag: Making a 3D model of a temple.
Ch-5: Descent of Ganga, Trimurti	1. Interpret the story behind the Descent of Ganga and Trimurti. 2. Understand the sculptural techniques used.	Narratives, Video Analysis, Art Criticism	1. Watching a documentary on Mahabalipuram sculptures. 2. Discussion on the Trimurti concept.	Documentary, Sculpture images	Students will connect mythology with sculpture.	Lack of deeper engagement with cultural narratives.	Red Flag: Storytelling with visuals. White Flag: Writing a short summary of the story. Green Flag: Explaining how mythology influences sculpture.
Ch-6: Lakshmi Narayana	1. Understand the symbolism of Lakshmi Narayana. 2. Analyze the artistic representation in sculptures.	Storytelling, Lecture, Discussion	1. Identifying Lakshmi Narayana depictions in different temples. 2. Debate on artistic variations.	Sculpture images, Temple references	Students will appreciate religious and artistic significance.	Difficulty in grasping symbolic elements.	Red Flag: Watching animated videos on Lakshmi Narayana. White Flag: Group discussion on its significance. Green Flag: Research and presentation on variations in different regions.
Ch-7: Mother and Child	1. Explore the theme of Mother and Child in Indian art. 2. Analyze different artistic interpretations.	Visual Analysis, Creative Activities	1. Creating an artwork based on the theme. 2. Presentation on different artistic representations.	Art supplies, Sculpture images	Understanding of emotional depth in Indian art.	Difficulty in expressing artistic interpretations.	Red Flag: Simple coloring activity on Mother and Child theme. White Flag: Writing a paragraph on its symbolism. Green Flag: Creating an original artwork inspired by the theme.

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Chapter No.	Chapter Name	Learning Outcomes	Pedagogy Used	Activities	Resources	Achievements	Gaps Identified	Remedial s
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CHEMISTRY

Chapter Name	Learning Outcomes	Pedagogy	Activities	Resources	Achievements	Gaps Identified	Remedials
Some Basic Concepts of Chemistry	1. Explain the importance of chemistry in daily life. 2. Apply mole concept and solve numerical problems.	Lecture, Discussion, Problem-solving method	Mole concept quiz, Group discussion on role of chemistry in society	Textbook, Online simulation for mole concept	Students will be able to relate chemistry to real-life applications and solve basic stoichiometric problems.	Difficulty in unit conversions and applying formulas.	Red Flag: Extra practice worksheets on mole concept. White Flag: Group discussions and peer tutoring sessions. Green Flag: Advanced numerical problem-solving and research-based assignments.
Structure of Atom	1. Describe atomic models and their limitations. 2. Explain the concept of quantum numbers.	Explanation using models and diagrams	Atomic model chart-making activity, Quiz on quantum numbers	Visual aids, Online videos on atomic theory	Students will be able to explain the structure of atom and understand quantum numbers.	Confusion in understanding orbital shapes and electron configurations.	Red Flag: Simplified diagrams and visual aids. White Flag: Worksheets on atomic models and quantum numbers. Green Flag: Extended reading on modern atomic theories and

							related research work.
Classification of Elements and Periodicity in Properties	1. Explain periodic trends in properties of elements. 2. Classify elements into s, p, d, f blocks.	Interactive lecture, Concept mapping	Periodic table puzzle, Group discussion on trends across periods and groups	Periodic table chart, Online periodic table tools	Students will understand the classification of elements and trends across periods and groups.	Difficulty in correlating trends with atomic structure.	Red Flag: Simplified periodic table with key trends highlighted. White Flag: Concept map creation and regular quizzes. Green Flag: Trend analysis project and presentations.
Chemical Bonding and Molecular Structure	1. Explain different types of chemical bonds. 2. Apply VSEPR theory to predict molecular shape.	Group discussion, Demonstrations	Model-making of molecular structures, Bond type identification activity	Molecular model kit, Videos on VSEPR theory	Students will understand different bonds and predict molecular geometry.	Difficulty in understanding hybridization and bond angles.	Red Flag: Extra practice on bond formation and interactive animations. White Flag: Group discussions on bond properties. Green Flag: Case study on molecular geometry in biological systems.
Chemical Thermodynamics	1. Explain laws of thermodynamics. 2. Solve numerical problems based on enthalpy, entropy, and Gibbs energy.	Problem-solving, Concept explanation	Thermochemistry experiments, Numerical practice sessions	Lab manuals, Simulation tools	Students will understand thermodynamic concepts and apply them in numerical problems.	Conceptual clarity on spontaneous and non-spontaneous processes is low.	Red Flag: Simplified flowcharts for laws of thermodynamics. White Flag: Group-solving of thermodynamic numericals. Green Flag:

							Real-world application project on thermodynamics (e.g., engines, environment).
Equilibrium	1. Explain dynamic nature of equilibrium. 2. Apply Le Chatelier's principle to predict changes in equilibrium.	Demonstration, Lecture	Experiment on chemical equilibrium, Case study discussion on real-life equilibrium examples	Laboratory resources, Case studies	Students will understand equilibrium and factors affecting it.	Difficulty in applying Le Chatelier's principle in numerical questions.	Red Flag: Stepwise explanation using simple examples. White Flag: Case study discussions and practice sheets. Green Flag: Research presentation on equilibrium in industrial processes.
Redox Reactions	1. Define oxidation and reduction. 2. Balance redox reactions using different methods.	Explanation and practice sessions	Redox reaction balancing competition, Real-life redox examples discussion	Worksheets, Visual presentations	Students will understand oxidation-reduction processes and balance equations.	Difficulty in balancing complex reactions.	Red Flag: Practice balancing simple reactions. White Flag: Group work on reaction identification and balancing. Green Flag: Application-based project on redox in biological or industrial systems.
Organic Chemistry: Some	1. Explain classification and nomenclature of	Concept mapping,	Nomenclature practice quiz, Functional group	Flashcards, Online organic	Students will be able to name and	Difficulty in IUPAC naming	Red Flag: Functional group identification

Basic Principles and Techniques	organic compounds. 2. Identify and differentiate functional groups.	Interactive lecture	identification activity	molecule builder	classify organic compounds.	conventions and identifying functional groups.	practice using visual aids. White Flag: Group practice on nomenclature and classification. Green Flag: Advanced assignments on multi-functional compounds.
Hydrocarbons	1. Explain properties and reactions of alkanes, alkenes, and alkynes. 2. Differentiate between addition and substitution reactions.	Lecture, Diagram-based explanation	Reaction mechanism roleplay, Comparison table-making activity	Reaction charts, Videos on organic reactions	Students will understand types of hydrocarbons and their reactions.	Confusion in distinguishing between reaction mechanisms.	Red Flag: Stepwise reaction mechanism explanation using animations. White Flag: Practice worksheets on types and reactions of hydrocarbons. Green Flag: Research assignment on hydrocarbons in petroleum and polymers.

