CARMEL CONVENT SR SEC SCHOOL, RATANPUR
YEAR PLANNER 2026-27

CLASS - XII **SUBJECT- CHEMISTRY**

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES /ASSESSMENT/PRACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	**Unit 1: Solutions** Types of Solutions, Expression of Concentration of Solutions, Solubility, Vapour Pressure of Liquid Solutions, Ideal and Non –Ideal Solutions, Colligative Properties and Determination of Molar Mass, Abnormal Molecular Masses. **Unit 6: Haloalkanes and Haloarenes:** Classification,	10hrs	Understand types and concentration of solutions, solubility, vapour pressure, ideal and non-ideal solutions, colligative properties, and determination of molar mass. Classify and name haloalkanes and haloarenes, explain their	Salt analysis Competency based worksheet	Poster making on application of colligative properties in daily life Prepare alkyl groups and name	Analytical thinking, numerical problem-solving, data interpretation, and application of solution concepts. IUPAC nomenclature, functional group identification, reaction mechanism analysis,

	Nomenclature, Nature of C–X bond, Methods of Preparation of Haloalkanes, Preparation of Haloarenes, Physical Properties,ChemicalReactions, Polyhalogen Compounds.	18 hrs	preparation, properties and reactions, understand the nature of the C–Xbond, and recognize the uses and environmental impact of polyhalogen compounds.		reactions flash card	structure–property correlation, problem-solving, and critical thinking. Environmental awareness and responsibility.
JUNE	**Unit 7: Alcohols,Phenols and Ethers** Classification, Nomenclature, Structures of Functional Groups, Alcohols and Phenols, Some Commercially Important Alcohols, Ethers.	8 hrs	Classify and name alcohols, phenols, and ethers; explain their preparation, properties, and reactions; and understand their applications in daily life and industry.	Redox titration-1 (Mohr's salt & KMnO4)	Prepare poster on Name reactions and conversion of organic compds.	IUPAC nomenclature, functional group identification, reaction mechanism analysis, structure–property correlation, chemical equation writing, problem-solving, and experimental skills. application of organic compounds in daily life.

	Unit 2: Electrochemistry Electrochemical Cells, Galvanic Cells, Nernst Equation, Conductance of Electrolytic solutions, Electrolytic Cells and Electrolysis, Batteries, Fuel Cells, Corrosion.	14 hrs	Understand electrochemical and galvanic cells, Nernst equation, conductance, electrolysis, batteries, fuel cells, and corrosion; apply concepts to real-life electrochemical systems.		Draw and label a working model of a galvanic cell or create a poster showing real-life applications of electrochemistry (batteries, corrosion, fuel cells).	Analytical thinking, problem-solving, application of electrochemistry in daily life, and data interpretation.
JULY	**Unit 4: d and f Block Element**Position in the Periodic Table, Electronic configuration of the d-Block Elements, General properties of the Transition Elements (d-Block), Some	20hrs	Explain the electronic configuration, properties, and trends of d- and f-block elements, understand their	Redox titration-2 (Mohr's salt & KMnO4)	Prepare concept map	Electronic configuration analysis, periodic trend interpretation, oxidation state prediction, comparative analysis,

	Important Compounds of Transition Elements, The Lanthanoids, The Actinoids, Some Applications of d- and f-Block Elements. **Unit 5: Coordination Compounds** Werner's Theory of Coordination Compound, Definition of Some important terms pertaining to Coordination Compounds, Nomenclature of Coordination Compounds. Isomerism in Coordination Compounds, Bonding in coordination compounds, Bonding in Metal Carbonyls, Importance and Applications of Coordination Compounds.	10 hrs	oxidation states and applications, and compare Understand Werner's theory, basic terms, nomenclature, isomerism, and bonding in coordination compounds including metal carbonyls; recognize their importance and applications.	Salt Analysis Redox titration-3(Oxalic Acid-KMnO4) **Periodic test -1** **(Ch. 1 & 6)**	Prepare a 3D model/chart showing different coordination compounds with labeled structures and isomers, or design a colorful infographic/poster on types and applications of coordination compounds.	problem-solving, data interpretation, and critical thinking Conceptual understanding, analytical thinking, chemical reasoning, classification and naming skills, and application in real-life systems.

AUGUST	**Unit 8: Aldehydes, Ketones and Carboxylic Acids** Nomenclature and Structure of Carbonyl Group, Preparation of Aldehydes and Ketones, Physical Properties and Chemical Reactions, Uses of Aldehydes and Ketones **Unit 3: Chemical Kinetics** Rate of a Chemical reaction, factors influencing rate of reaction, integrated rate equations, Temperature Dependence of the rate of a reaction, Collision theory of Chemical Reactions.	16 hrs 14 hrs	Classify and name aldehydes, ketones, & carboxylic acids;explain their preparation, properties, and reactions; and relate their structure to reactivity and practical applications. Understand rate of reaction, factors affecting it, integrated rate equations, temperature dependence, and collision theory.	Detection of functional group Salt Analysis	Draw reaction pathways creatively Design a graph/chart showing rate of reaction under different conditions or create a visual model illustrating collision theory and factors affecting reaction rate.	IUPAC nomenclature, functional group identification, reaction mechanism analysis, structure–reactivity correlation, chemical equation writing, problem-solving, and critical thinking. Analytical thinking, mathematical problem-solving, data interpretation, and application of kinetic concepts.

SEPTEMBER	Nomenclature Structure of Carboxyl Group, Methods of Preparation of Carboxylic Acids, Physical Properties andChemical Reactions, Uses of Carboxylic Acids.	10hrs	Differentiate between aldehydes, ketones, and carboxylic acids based on reactivity & properties.	Chromatography Term-1 Chapters 1,2,4,6,7	Prepare a flowchart showing structure, preparation methods, reactions, and uses of carboxylic acids, or design a creative poster highlighting their applications in daily life.	Chemical reasoning, classification and naming skills, reaction analysis, andapplication of organic chemistry in daily life
OCTOBER	**Unit 10: Biomolecules** Carbohydrates. Proteins, Enzymes, Vitamins Nucleic Acids, Hormones	10 hrs	Classify biomolecules, explain their structure and functions, understand the role of carbohydrates, proteins, vitamins, and nucleic acids, and relate	Detection of Carbohydrates, proteins and fats in food samples	Collage on biomolecules	Classification skills, structure–function analysis, scientific reasoning, health awareness,problem-solving, critical thinking, and application of biomolecular concepts in daily life.

	Unit 9: Amines Structure of Amines, Classification, Nomenclature, Preparation of Amines, Physical Properties, Chemical Reactions, Methods of Preparation of Diazonium Salts,Physical Properties, Chemical Reactions, Chemical Reactions Importance of Diazonium Salts in Synthesis of Aromatic Compounds.	10hrs	biomolecules to health and life processes. Understand structure, classification, nomenclature, preparation, properties, and reactions of amines and diazonium salts.		Create a flowchart or colorful chart showing classification, preparation methods, and reactions of amines and diazonium salts, or design a reaction pathway diagram.	Chemical reasoning, classification and naming skills, reaction analysis, and application of organic chemistry concepts.
NOVEMBER	Term-2 (full syllabus)					
DECEMBER	Pre-Board Practical exam					
JANUARY	Pre Board					

Name of Incharge Teachers: Mrs Bindu Dalal & Dr Pragati Vijay
Signature of Coordinator:
Signature of Principal:
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CARMEL CONVENT SR SEC SCHOOL, RATANPUR YEAR PLANNER:2026-27

CLASS : XII(ABCD) SUBJECT: PHYSICAL EDUCATION

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ ASSESSMENT/PRACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	Unit 1 Management of Sporting Events 1. Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) 2. Various Committees & their Responsibilities (pre;during & post) 3. Fixtures and their rocedures – Knock- Out (Bye & Seeding) & League (Staircase, Cyclic, Tabular method) and Combination tournaments. 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance 5. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)	200 min	After completing the unit, the students will be able to: * Describe the functions of Sports Event management * Classify the committees and their responsibilities in the sports event * Differentiate the different types of tournaments. * Prepare fixtures of knockout, league & combination. * Distinguish between intramural and extramural sports events * Design and prepare different types of community	Case study of a school sports day; prepare step-by-step event plan; role-play different management functions; worksheet. Prepare fixtures for class competitions; solve worksheet problems on bye and seeding; create sample tournament charts.	Create a flowchart showing the five functions of sports event management with examples. Design an “Event Committee Chart” showing roles and responsibilities at different stages. Draw fixture charts for knock-out,	Understanding event management process, planning and organizational skills, leadership, decision-making. Teamwork, responsibility sharing, coordination, communication skills, organizational awareness.
APRIL	Unit 6 Test & Measurement in Sports 1. Fitness Test – SAI Khelo India Fitness Test in school: Age group 5-8 years/class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility	120 min	After completing the unit, the students will be able to: * Perform SAI Khelo India Fitness Test in school [Age group 5-8 years/ (class 1-3) and Age group 9-18yrs/ (class 4-12) * Determine physical fitness Index through Harvard Step Test/Rock- port Test * Compute Basal Metabolic Rate (BMR) * Describe the procedure of Rikli	Conduct fitness tests in school: BMI calculation, Flamingo Balance Test, Plate Tapping Test (5–8 yrs), and 50 m speed test, 600 m run/walk, Sit & Reach, Push-ups/Modified Push-ups, Partial Curl-ups (9–18 yrs);	Create a “Fitness Test Record Card” or illustrated chart showing all tests with diagrams. Draw a flowchart showing steps of Harvard Step Test with formula explanation. Create a chart showing all six tests with	Understanding fitness components, practical testing skills, self-assessment, physical awareness. Cardiovascular fitness understanding, data calculation, analytical thinking, health awareness. Numerical reasoning, understanding

	test, Strength Test(Partial Abdominal Curl Up, Push-Ups for boys, Modified Push-Ups for girls) 2. Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise. 3. Computing Basal Metabolic Rate (BMR) 4. Rikli & Jones – Senior Citizen Fitness Test • Chair Stand Test for lower body strength • Arm Curl Test for upper body strength • Chair Sit & Reach Test for lower body flexibility • Back Scratch Test for upper body flexibility • Eight Foot Up & Go Test for agility • Six-Minute Walk Test for Aerobic Endurance 5. Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full-turn		and Jones - Senior Citizen Fitness Test	record and compare results. Demonstrate and simulate tests: Chair Stand, Arm Curl, Chair Sit & Reach, Back Scratch, 8-Foot Up & Go, 6-Minute Walk; analyze fitness components	illustrations and fitness components.	metabolism, health and nutrition awareness. Motor coordination, agility, learning ability, body control, skill acquisition. Numerical reasoning, understanding metaboli
JUNE	UNIT-4 Physical Education and Sports for CWSN (Children with Special Needs – Divyang 1. Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics) 2. Concept of Classification and Divisioning in Sports. 3. Concept of Inclusion22 Physical Education Syllabus 2024-25 in sports, its need, and Implementation; 4. Advantages of Physical Activities for children with special needs.	120 min	After completing the unit, the students will be able to: * Value the advantages of physical activities for children with special needs * Differentiate between methods of categorization in sports for CWSN * Understand concepts and the importance of inclusion in sports * Create advantages for Children with Special Needs through Physical Activities * Strategies physical activities	Group presentation on each organization; video-based learning of events; quiz competition; discussion on famous athletes. Activity-based grouping of students based on abilities; simulation games showing classification;	Create posters or charts showing the structure and achievements of Special Olympics, International Paralympic Committee, and Deaflympics.	Awareness of inclusive sports systems, global sports knowledge, empathy, communication skills. Empathy, social responsibility, inclusivity, ethical understanding, teamwork.

	5. Strategies to make Physical Activities assessable for children with special needs		accessible for children with specialneeds	worksheet exercises.		
JULY	UNIT-8 Biomechanics and Sports 1. Newton's Law of Motion & its application in sports 2. Types of Levers and their application in Sports. 3. Equilibrium –Dynamic & Static and Centre of Gravity and its application in sports 4. Friction & Sports 5. Projectile in Sports	160 min	After completing the unit, the students will be able to: * Understand Newton's Law of Motion and its application in sports * Recognize the concept of Equilibrium and its application in sports. * Know about the Centre of Gravity and will be able to apply it in sports * Define Friction and application in sports. * Understand the concept of Projectile in sports.	Demonstration of laws using running,jumping,throwing activities; video analysis of sports movements; worksheet-based questions Practical demonstration using body movements (biceps curl, jumping, throwing).	Create an illustrated chart showing Newton's 3 Laws with sports examples (e.g., football kick, sprint start). Draw diagrams showing first, second, and third class levers with sports .	Understanding force and motion, application of physics in sports, analytical thinking. Balance control, body awareness, understanding stability and movement efficiency.
JULY	UNIT-10 Training in Sports 1. Concept of Talent IdentificationandTalent DevelopmentInSports 2.IntroductiontoSports TrainingCycle–Micro,Meso,Macro Cycle. 3.Types&MethodstoDevelop–Strength, Endurance,andSpeed. 4.Types&MethodstoDevelop–Flexibility and Coordinative Ability. 5.CircuitTraining Introduction&itsimportance	120 min	. After completing the unit, the students will be able to: * understand the concept of talent identification and methods used for talent development in sports * Understand sports training and the different cycle used in the training process. * Understand different types & methods to develop -strength, endurance, and speed in sports training.	Identify physical and skill-related abilities among students through simple fitness and skill tests; discuss characteristics of talented athletes; case studies of successful sportsperson	Create a "Talent Development Pathway" chart showing stages from identification to elite performance Design a colorful training calendar illustrating Micro, Meso,	Planning and organizational skills, understanding periodization, time management Planning and organizational skills
AUG	UNIT-2 Children & Women in Sports 1. Exercise guidelines of WHO for different age groups.	120 min	After completing the unit, the students will be able to: * Differentiate exercise guidelines for different stages of growth and development. * Classify common postural	study and discuss recommended physical activity levels for children, adolescents, adults, and older adults;	Design an infographic showing age-wise exercise recommendations and benefits. Draw labeled diagrams of postural deformities	Health awareness, understanding fitness requirements, lifestyle management skills. Posture awareness, health education, observation skills,

	2. Common postural deformities-knockknees,flatfoot,roundshoulders, Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures. 3. Women's 18 Physical Education Syllabus 2024-25 participation in Sports– Physical, Psychological, and social benefits. 4. Special consideration (menarche and menstrual dysfunction) 5. Female athlete triad (osteoporosis,amenorrhea, eating disorders.		deformities and identify corrective measures. * Recognize the role and importance of sports participation of women in India. * Identify special considerations relate to menarche and menstrual dysfunction. * Express female athlete triad according to eating disorders.	prepare fitness schedules, Group discussion on women athletes and their achievements; presentation on benefits of sports participation; case study analysis.	and corresponding corrective exercises. Prepare an awareness poster showing causes, effects	preventive healthcare knowledge. Health literacy, self-awareness, scientific understanding.
AUG	UNIT-3 Yoga as Preventive measure for Lifestyle Disease 1. Obesity: Procedure, Benefits &Contraindications for Tadasana,Katichakrasana, Pavanmuktasana,Matsayasana, Halasana,Pachimottansana, Ardha –Matsyendrasana, Dhanurasana Ushtrasana, Suryabedhanpranayama. 2. Diabetes: Procedure, Benefits &Contraindicationsfor Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana,Paschimottanasan-a, Ardha-Mastendrasana, Mandukasana,Gomukasana, Yogmudra,Ushtrasana, Kapalabhati. 3. Asthma: Procedure, Benefits &Contraindications for Tadasana,Urdhwahastottansan a, UttanMandukasan-	160 min	After completing the unit, the students will be able to: * Identify the asanas beneficial for different ailments and health problems. * Recognize importance of various asanas for preventive measures of obesity, diabetes, asthma, hypertension, back pain and arthritis * Describe the procedure for performing a variety of asanas for maximal benefits. * Distinguish the contraindications associated with performing different asanas. * Outline the role of yogic management for various health benefits and preventive measures	Demonstration and practice of prescribed asanas; prepare a chart showing procedures, benefits, and contraindications; practical assessment of posture and technique. Guided yoga sessions; maintain a yoga practice journal; group presentation on Yoga and diabetes management. Practice relaxation-based asanas and pranayama; monitor pulse rate before and after sessions; reflective diary writing.	Create illustrated yoga posture charts highlighting obesity management through Yoga. Prepare a flowchart linking specific yoga practices with their health benefits for diabetes Design posters showing respiratory benefits of Yoga for asthma management. Draw and label yoga postures beneficial for spine and joint health. Design posters showing respiratory benefits of Yoga for asthma management.	Awareness of obesity prevention, correct yoga practice, fitness management, self-discipline. Understanding preventive healthcare, health awareness, regular exercise habits, concentration. Breathing control, respiratory health awareness, mindfulness, self-regulation. Stress management, emotional control, relaxation skills, healthy lifestyle awareness.

	a, Bhujangasana, Dhanurasana, Ushtrasana,Vakrasana, Kapalbhati,Gomukhasana Matsyaasana,Anuloma-Viloma. 4. Hypertension:Procedure, Benefits & Contraindications for Tadasana, Katichakransan,Uttanpadasana, Ardha Halasana,Sarala Matyasana, Gomukhasana,UttanMandukasan-a, Vakrasana,Bhujangasana, Makarasana,Shavasana, Nadi-shodhanapranayam,Sitlipranayam. 5. Back PainandArthritis: Procedure, Benefits & Contraindications of adasan,Urdhawahastootansa na, Ardh-Chakrasana, Ushtrasana,Vakrasana, Sarala Maysyendrsana,Bhujandgasana, Gomukhasana,Bhadrasana, Makarasana,Nadi-Shodhana pranayama.			Demonstration of posture-correcting exercises; practical assessment of flexibility and technique; discussion on joint health.		
SEP	Unit 7 Physiology & Injuries in Sport 1. Physiological factors determining components of physical fitness 2. Effect of exercise on the Muscular System 3. Effect of exercise on the Cardio-Respiratory System 4. Physiological changes due to aging 5. Sports injuries: Classification (Soft Tissue Injuries -Abrasion, Contusion, Laceration, Incision,Sprain & Strain Bone & Joint Injuries- Dislocation, Fractures – GreenStick, Comminuted, Transverse Oblique & Impacted)	200 min	After completing the unit, the students will be able to: * Recognize the physiological factors determining the components of physical fitness. * Comprehend the effects of exercise on the Muscular system and cardiorespiratory systems. * Figure out the physiological changes due to ageing * Classify sports injuries with its Management.	Discuss factors affecting strength, speed, endurance, flexibility, and coordination; fitness assessment activities; worksheet and quiz. Observe muscle fatigue before and after exercise;.	Create a concept map showing physiological factors influencing physical fitness components. Draw and label major muscle groups and illustrate exercise	Understanding fitness determinants, scientific thinking, health awareness, analytical skills. Knowledge of muscular adaptations, body awareness, observation
OCT	Unit 5 Sports & Nutrition	120 min	After completing the unit, the students will be able to: * Understand the concept of a	Prepare a one-day balanced diet chart for different age	Create a colorful food plate model or poster	Understanding of healthy eating, nutrition awareness, decision-

	1. Concept of balanced diet and nutrition 2. Macro and Micro Nutrients: Food Sources & functions 3. Nutritive & Non-Nutritive Components of Diet 4. Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting,Food intorlence 5. Importance of Diet in Sports-Pre, During and Post competition Requirements		balanced diet and nutrition. Classify Nutritive and Non-Nutritive components of the Diet * Identify the ways to maintain a healthy weight * Know about foods commonly causing food intolerance * Recognize the pitfalls of dieting and food myth	groups and athletes; group discussion on healthy eating habits; quiz on nutrition basics. worksheet and presentation on functions of carbohydrates.	showing components of a balanced diet. food sources and functions of macro and micronutrients.	making for healthy lifestyles. Knowledge of nutrients, scientific .
OCT	UNIT-9 Psychology and Sports 1. Personality; its definition & types (Jung Classification & Big Five Theory) 2. Motivation, its type & techniques. 3.ExerciseAd herence: Reasons, Benefits & Strategies for Enhancing it 4. Meaning, Concept & Types of Aggressions in Sports 5. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk,Goal Setting	120 min	After completing the unit, the students will be able to: * Classify different types of personality and their relationship with sports performance. * Recognise the concept of motivation and identify various types of motivation. * Identify various reasons to exercise, its associated benefits and strategies to promote exercise adherence. * Differentiate between different types of aggression in sports. * Explain various psychological attributes in sports.	Conduct personality self-assessment questionnaires; group discussion on personality traits of successful athletes; worksheet activities. identify intrinsic and extrinsic motivation in sports scenarios; role-play motivational situations.	Create personality trait charts or mind maps illustrating Jung's personality types and the Big Five traits. Design motivational posters or quote boards for athletes.	Self-awareness, understanding individual differences, analytical thinking, interpersonal skills. Goal orientation, self-motivation, positive attitude, performance enhancement skills.
NOV	REVISION					

NAME OF INCHARGE TEACHERS:- ASHOK VISHWAKARMA , ANAMIKA SINGH

SIGNATURE OF COORDINATOR :- _____

SIGNATURE OF PRINCIPAL:_____

CARMEL CONVENT SR SEC SCHOOL, RATANPUR, YEAR PLANNER:

2026-27

CLASS: XII **SUBJECT: BIOLOGY**

Month / No of Working Days	Name of the Unit / Chapter/Topic	Time for each unit	Learning Outcomes	Art Integrated Activity / Project	Practicals	Key Competencies to be Achieved
APRI	Reproduction •Sexual Reproduction in flowering plants. •Reproduction in humans	UNIT-1 30 hrs	Understand the role of different floral parts in sexual reproduction. Knowledge of microsporogenesis and megasporogenesis.understand events of fertilization.	Collage on asexual reproduction in lower organisms; Model of double fertilization	Pollen germination - slide preparation Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.	Concept clarity, diagram skills; Analytical and observation skills Anatomical understanding, memory skills
JUNE	Reproductive health *Principles of inheritance and variations	UNIT-2 15 hrs	Learn the importance of reproductive health • sexually transmitted disease and its prevention Empathize with children suffering from genetic disorders	Poster on contraceptive methods; Pedigree analysis	Flowers adapted to pollination by different agencies (wind, insects, birds). pollen germination slide	Awareness and critical thinking; Logical reasoning, data analysis
JULY	*Molecular Basis of Inheritance *Evolution	UNIT-2 25 hrs	Students will know and understand DNA, RNA, replication, transcription, genetic code, translation, regulation of gene expression Evolution theories	DNA model using beads/straws	Study the plant population density by quadrat method. Study the plant population frequency by quadrat method.	Molecular concepts, model-making
AUGUST	*Human Health and Disease *Microbes in Human Welfare	UNIT-3 29 hrs	Develop the process of observational, manipulative decision and investigatory skills in learners.	Project &poster on role of microbes	Identification of stages of gamete development. Meiosis in onion bud cell or grasshopper testis through permanent slides& specimen	Critical thinking, correlation; Health literacy, creativity
SEPTEMBER	REVISION *HALF YEARLY	2-hrs	critical thinking and problem solving, conceptual skill development.. assertion –reasoning and case study solving ability	Crosswords, MCQ quizzes	Revision	

CARMEL CONVENT SR SEC SCHOOL, RATANPUR, YEAR PLANNER:

2026-27

CLASS: XII **SUBJECT: BIOLOGY**

OCTOBER	Biotechnology : Principles and processes Biotechnology and its Applications	UNIT-4 29 hrs	Understand mechanism of Polymerase chain reaction, difference between sparged and stirred tank bioreactor competencies developed in students: collaborative learning, critical thinking	Biotech flowchart	onion root tip to study mitosis. Mendelian inheritanceFlash cards models showing examples of homologous andanalogous organs.	Integration of tech and bio concepts
NOVEMBER	*Organisms and Populations *Ecosystem *Biodiversity and Conservation	UNIT-5 24 hrs	Understand and differentiate between organism attributes and population attributes. Understand mechanism of growth models and population attributes, Understand Recall and recognize Students are able to explain the importance of bio diversity for the existence of the entre life on the earth.	Model of ecosystem	Prepared pedigree charts of any one of the genetic traits. Controlled pollination - emasculation, tagging and bagging.	Application in real-life context; Awareness, environmental knowledge Environmental literacy, systems thinking
DECEMBER	REVISION *FINAL EXAM	3 hrs	critical thinking and problem solving, conceptual skill development.. assertion –reasoning and case study solving ability			
JANUARY	REVISION *Pre Boards	3 hrs	Practice and learning			

NAME OF INCHARGE TEACHERS: Dr.NEERU THAKUR

Dr.NEERU THAKUR
SIGNATURE OF SUBJECT CORDINATOR:

SIGNATURE OF PRINCIPAL:

CARMEL CONVENT SR SEC SCHOOL, RATANPUR, YEAR PLANNER:

2026-27

CLASS: XII **SUBJECT: BIOLOGY**

NAME OF THE SUBJECT TEACHER: Dr. NEERU THAKUR

SIGNATURE OF THE SUBJECT COORDINATOR: Dr. NEERU THAKUR

CARMEL CONVENT SR SEC SCHOOL, RATANPUR

YEAR PLANNER 2026-27, CLASS - XII SUBJECT- ENGLISH

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES / ASSESSMENT/ PRACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	THE LAST LESSON	4.5 hrs	Recognize the significance of one's language and identity; Reflect on the emotional impact of language loss.	ALS	ART INTEGRATED LEARNING PROJECT Make a collage /ppt/ video on any one of the following, supporting it with pictures and sketches	Value of one's mother tongue; Empathy for people under cultural oppression; Awareness of linguistic identity and nationalism.
	MY MOTHER AT SIXTY-SIX	2.25 hrs	Interpret themes of ageing, fear and attachment; Appreciate use of imagery and poetic tone.		Take ideas from 'Lost Spring 'or ' On the Face of It'. 1)Child Labour –condition in my city and ways of combating it	Understanding emotions of ageing and separation; Sensitivity to familial bonds and impermanence.
	NOTICE WRITING	2.25 hrs	Structure short informative content with clarity; Use correct format, tone and style.		2)Differently-abled people who emerged as achievers defying all the odds that life threw at them. (any one)	Precision and clarity in short informative writing; Understanding of format and tone.

	THE THIRD LEVEL	4.5 hrs	Identify psychological responses to stress and war; Differentiate between fantasy and reality.			Exploring psychological escapism and anxiety; Understanding blending of fantasy and reality.
	LOST SPRING	4.5 hrs	Interpret social issues like poverty and child labour; Develop empathy for marginalized communities			Sensitivity toward social injustice and child labour; Awareness of economic disparity; Critical thinking about societal roles.
JUNE	THE TIGER KING	6 hrs	Understand satire and critique of power; Analyze environmental and moral themes			Critiquing power, pride, and ecological irresponsibility; Understanding irony and satire
	ARTICLE WRITING	4.5 hrs	Express opinions and ideas logically and coherently; Organize content with introduction, body, and conclusion.			Structuring coherent and impactful content; Encouraging informative and persuasive writing.

	READING COMPREHENSION	2.25 hrs	Extract specific and implied information from texts; Develop inferential and analytical reading			Enhancing inferential and analytical reading skills; Identifying tone, purpose, and context.
	KEEPING QUIET(Poem)	2.25 hrs	Understand the value of silence and self-reflection; Analyze poetic devices like symbolism and paradox.			Encouraging introspection and self-awareness; Fostering global peace and environmental mindfulness
JULY PT 1 1.The Last Lesson 2.My Mother at Sixty -Six 3.The Third Level	DEEP WATER	4.5 hrs	Identify personal fears and reflect on overcoming them; Appreciate perseverance and self -discipline.			Recognizing the importance of determination and courage; Overcoming fear through self-belief.
	INVITATION	6 hrs	Draft appropriate invitations with relevant details; Differentiate tone based on formality.			Using appropriate format and polite tone; Communicating event details effectively.

	JOURNEY TO THE END OF THE EARTH	4.5 hrs	Appreciate Earth's geological and environmental diversity; Understand the urgency of climate change awareness.			Awareness of climate change and Earth's history; Encouraging scientific temperament.
	A THING OF BEAUTY	2.25 hrs	Appreciate the healing power of beauty; Understand poetic structure and literary devices.			Appreciation of beauty as a source of hope; Understanding poetic devices (imagery, metaphor)
	THE RATTRAP	6 hrs	Analyse themes of redemption and human kindness; Understand the metaphor of life as a rattrap			Understanding the human need for kindness and redemption; Development of empathy and compassion.
AUGUST	LETTER TO EDITOR	4.5 hrs	Present views and arguments logically; Structure a formal letter with clarity			Presenting logical arguments and opinions; Developing persuasive writing skills
	THE ENEMY	6 hrs	Analyse conflict between nationalism and humanity;			Understanding moral conflict between duty and humanity;

			Reflect on moral dilemmas in war			Sensitivity to war-time ethics
	READING COMPREHENSION	2.25 hrs	Extract specific and implied information from texts; Develop inferential and analytical reading			Enhancing inferential and analytical reading skills; Identifying tone, purpose, and context
	A ROADSIDE STAND (POEM)	2.25 hrs	Identify rural challenges and social injustice; Analyse the poet's concern for economic disparity.			Sensitivity to the rural-urban divide; Empathy for the marginalized.
	INDIGO	6 hrs	Evaluate the significance of leadership and moral courage; Understand historical movements like Champaran.			Understanding Gandhian principles and leadership; Value of non-violent protest for social reform
	APPLICATION FOR JOB	4.5 hrs	Present qualifications and experience effectively; Use formal tone and persuasive language			Structuring formal content professionally; Expressing intent and qualifications persuasively
SEPTEMBER TERM 1(All topics	ON THE FACE OF IT	6 hrs	Understand disability, prejudice, and acceptance; Analyse how perception shapes relationships			Breaking stereotypes about physical disability; Fostering

covered from April to August)						self-worth and human connection.
	REPORT WRITING	4.5 hrs	Present factual information clearly and sequentially; Use passive voice, objectivity, and formal tone			Organizing factual information logically; Maintaining objectivity and clarity
OCTOBER	POETS AND PANCAKES	6hrs	Understand autobiographical and workplace narratives; Identify satire and irony in the entertainment industry			Awareness of gender roles and industry hierarchy; Understanding autobiographical narratives
	THE INTERVIEW-I, THE INTERVIEW II	6 hrs	Examine the purpose and impact of interviews; Understand varied viewpoints on the art of interviewing.			Developing critical understanding of media ethics; Analytical skills for evaluating personal narratives.
	MEMORIES OF CHILDHOOD	6 hrs	Recognize social injustices like caste and racism; Appreciate autobiographical voices of protest			Raising awareness of casteism and racism; Understanding autobiographical

						resistance and empowerment
	GOING PLACES	3 hrs	To recognize the gap between reality and imagination			Dreams vs. reality/ societal expectations and limitations/ the power of imagination
NOVEMBER TERM 2 (FULL SYLLABUS)	AUNT JENNIFER'S TIGERS(Poem)	2.5 hrs	Explore themes of gender roles and resistance; Interpret symbolism in the poem.			Awareness of gender inequality and artistic expression; Understanding symbolism and feminist themes.
			REVISION & PRE BOARD			
	PRACTICE OF ALS	4.5 hrs				
	REVISION	6.75 hrs	REVISION			
DECEMBER			PRE BOARD PRACTICAL EXAM			
		6 hrs	REVISION			
JANUARY			PRE BOARD EXAM			

		4.5 hrs	ALS			
FEBRUARY		BOARD	EXAM			

Name of In-charge Teacher: JECY ABRAHAM
Signature of Coordinator: _____
Signature of Principal: _____
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CARMEL CONVENT SR SEC SCHOOL, RATANPUR

YEAR PLANNER 2026-27 CLASS XII – MATHEMATICS(041)

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES / ASSESSMENT / PRACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
April	Matrices and Determinants, Differentiability	25 HRS	Apply matrix operations and solve systems of equations.	WORKSHEET		Analytical thinking, computational skills
June	Continuity, Relations & Functions, Inverse Trigonometric Functions	23 HRS	Understand continuity, differentiability and derivatives. Understand types of relations, functions and inverse trigonometric concepts	To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive. To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \parallel m\}$ is an equivalence relation.		Critical thinking, conceptual clarity
July	Applications of Derivatives,	25 HOURS	Apply derivatives	PT-1 (Differentiation & LP) To demonstrate a function which is not one-one but is onto. To demonstrate a function which is one-one but not onto. To sketch the graphs of a^x and $\log_a x$, $a > 0, a \neq 1$ and to examine that they are mirror images of each other.		
August	Integrals	25 HOURS	integration techniques	To understand the concepts of	To Make a power	Problem solving,

	Applications of Integrals,		in problem solving. Solve area	local maxima, local minima and point of inflection. To verify that amongst all the rect- angles of the same perimeter, the square has the maximum area.	point presentation.	application skills
September	Differential Equations	25 HOURS	differential equation based problems.	PT-2 (Syllabus: Relation Function, ITF, Matrices, Determinants, Continuity and Differentiability, AOD, Integrals & LP)		Logical analysis, mathematical modelling
October	Vectors and Three Dimensional Geometry	22 HOURS	Apply vector algebra and 3D geometry concepts.	WORKSHEET		Spatial visualization, reasoning ability
November	Linear Programming and Probability	25 HOURS	Solve optimization and probability problems confidently.	To understand the concepts of absolute maximum and minimum values of a function in a given closed interval through its graph.		Decision making, analytical reasoning
December	PREBOARD EXAMS			PREBOARD-1 (Full Syllabus)		
January				PREBOARD -2 (Full Syllabus)		

Name of In charge Teacher: MR. NIKHILESH PURASWANI

Signature of Coordinator: MRS. ANAMIKA CHUGH

Signature of Principal: _____

CARMEL CONVENT SR SEC SCHOOL, RATANPUR

YEAR PLANNER 2026-27 , CLASS - 12 SUBJECT- PHYSICAL ACTIVITY TRAINER

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICSALLOTTED	TIME	LEARNING OUTCOMES	SUGGESTED ACTIVITIES / ASSESSMENT/PRACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
April	Unit -1: Communication Skills -III	80 minutes	1. Describe the steps to active listening skills 2. Demonstration basic writing skills	1. Preparing posters of steps for active listening. 2. Demonstration and practice of writing sentences and paragraphs on topics related to the subject	Visual & non- verbal expression.	Active listening, clarity and conciseness,non-verbal communication and feedback.
June	Unit - 2 Self Management Skills - IV	80 minutes	1. Describe the various factors influencing self motivation 2. Describe the basic personality traits,types and disorders.	1. Group discussion on identifying needs and desire. 1. Demonstrate the knowledge of different personality types.	Self motivation and goal setting	Self discipline, time management, stress management,goal setting and decision making.
July	Unit -3 Information and Communication Technology skills -IV	80 minutes	1. Perform tabulation using spreadsheets application. 2. Prepare presentation using presentation application.	1. Creating a new worksheet and sorting and filter the data. 2. Creating a new presentation and deleting a slide.	Digital creation & manipulation.	Basic hardware usage, file and data management, software online safety & Ethics.
July	Unit - 4 Entrepreneurial skills -IV Unit - 5 Green skills -IV	80 minutes	1. Identify the general and entrepreneurial behavioural competencies. 2. Demonstrate the knowledge of self assessment of behavioural competencies.	1. Prepare posters on green jobs.	Resource management & budgeting. —------	Business management, personal entrepreneur, technical & relational competencies.

			1. Identify the role and importance of green jobs in different sectors.			
August PART-B SUBJECT SPECIFIC SKILLS	Unit - 1 Overview of physical Education and sports sector	80 minutes	1. Describe the job profile and career opportunities of a Physical Education assistant 2. Differentiating between Physical activity, games, sports and recreation 3. Describe the importance of life skills in sports.	1. List the skills required for teaching Physical Education. 2. Demonstrate the knowledge of difference between Physical activity, games, sports, and recreation. 3. Divide teams in class to conduct a competition for observe football and volleyball.	Motor fitness, Biomechanics	Motor skills, physical fitness & conditioning, sports strategy & rules. Management & organizational skills.
September	Unit -2 Assessment of students Unit -3 Emergency Management	80 minutes	1. Compare the various types of assessment and purpose of evaluation. 2. Identify the steps of qualitative and quantitative assessment. 3. Demonstrate the knowledge of organizing interaction with parents. 1. Identify the importance of emergency response. 2. Identify and respond to emergencies in play field.	1. Group discussion on factors influencing assessment. 2. Group discussion on qualitative and quantitative assessment. 3. Role play for explanation of students report to parents. 1. Create a poster showing the steps of CPR 2. Demonstration of first aid procedures.	Critical thinking & problem solving. Teamwork and role flexibility	Critical thinking, communication, collaboration creativity. Leadership and decision making, communication and coordination.

October	Unit - 4 Health and hygiene in Play area	80 minutes	1. Demonstrate knowledge about player's health and hygiene 2. Describe the hygiene and health in play area	1. Prepare chart on general hygiene and sanitation rules. 2. Write a paragraph about importance of Play area inspection.	Glow- garm paint activity.	Personal hygiene skills, sanitation and environmental maintenance, food and drink safety.

Name of Incharge Teachers: -Ashok Kumar Vishwakarma, Anamika singh
Signature of Coordinator: - Ashok Kumar Vishwakarma

Signature of Principal: _____

CARMEL CONVENT SR. SEC. SCHOOL, RATANPUR
ACADEMIC YEAR PLAN : 2026 - 27

XII A and B — Name of the Subject : Physics Part -1

MONTH / No.of working days	Name Of the Unit / Sub Topics	Time Allotted for each unit	Learning Outcomes	Art Integrated activity/ Art integrated project	Practicals	Key Competencies to be achieved
APRIL -JUNE (26)	Current Electricity **Chapt.3 Current Electricity:** Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and nonlinear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's rules, Wheatstone bridge. Electrostatics **Chapt.1 Electric Charges and Fields.** Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.	26(17.33h)	Students will be able to understand -- *Concept of electric current, drift velocity, mobility of electrons in a conductor. * Ohm's law, and ohmic conductors * the concept of electric power, electrical resistivityand conductivity, temp.dependance of resistance. * the internal resistance of a primary cell, cells in series and parallel, difference between emf and potential difference. * Kirchhoff's current and voltage law. * the concept of Principle of Wheatstone bridge and it's proof.	Activity: 1)Demonstration to understand concept of Ohm's law. 2) Model making to verify Kirchhoff's current and voltage law.	EXP: 1)To determine resistivity of a two/three wires by plotting a graph of potential difference versus current. 2) To find resistance of a given wire/standard resistance using a metre bridge.	Understanding and applying concepts like Ohm's law, drift velocity, Kirchhoff's laws, resistance,resistivityand circuit analysis using combinations of resistors and ability to solve problems related to these concepts. Students will achieve Core and functional competency. Develop prosses skills and experimental, observational, manipulative, decision making in learners.
JULY(18) PT - 1	Electric field, electric field due to a point charge, electric field lines electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). **Chapt.2: Electric Potential and Capacitance:** Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor(no derivation , formulae only.)	26(17.33h)	The students will be able to explain the following facts and concepts-- *Electric charges; Conservation of charges *Coulomb's law-force between two point charges *Forces between multiple charges ; superposition Principle and continuous charg distribution * Electric field, electric field due to apoint charge, electric field lines, electeic dipole, electric field due to a dipole, torque on a dipole in uniform electric field *Electric flux, statement of Gauss,s Theorem and it's applications to find electric field due to (i) infinitely long st. conductor, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (inside and outside) *Electric potential and potential difference, electricpotential gradient *electeic potential due to dipole, the potential energy and torque due to an electric dipole. *Dielectrics, polarization and capacitance and its derivations.	Activities--1) Find the pairs of materials having/ showing static charge accumulation to prove conservation of charges. 2) Make the cubes to solve the numericals based on Gauss theorem. 3) Make a flow chart on electric potential. 4) Make a small model showing that capacitor stores the charges and then use that energy to light LED. 5) With the help of two metal plates, battery, plastic/cardboard and multimeter check the dependance of capacitance on medium and distance between the plates. Project: Different projects are given.		Knowledge of concepts like electric fields, potential and capacitance,applying laws like Coulomb's law and Gauss's Law and problems solving related to static electricity and charge distributions. Develop conceptual competence in the learners and make them realize and appreciate the interface of physics with other diciplines.
AUGUST (18)	Magnetic Effects of Current and Magnetism **Chapt.4: Moving Charges and Magnetism:** Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment) , force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.	18 (12h)	Students will be able to --- *understand the concept of magnetic field ,Oerested's experiment. *understand Biot Savart's law and it's application *understand Ampere's law and it's applications tofind magnetic field due to (i)st.infinitly long wire and (ii) toroid *understand the force on a moving charge in uniform magnetic and electric fields *understand the force on a current carrying conductor in a uniform magnetic field. *understand force between two parallel current carrying conductors, definition of ampere. *understand the torque experienced by a current loop in uniform magnetic field *understand the moving coil galvanometer and related terms.	Activities-- 1) Demonstration of force between two long straight current carrying conductors. 2) Activity to show : current carrying conductor when placed in magnetic field experiences a force.	EXP:. 3) To determine resistance o a galvanometer by half-deflection method and to find its figure of merit.	Core Competencies like understanding the relationship between electricity and magnetism, Comprehencing magnetic fields and forces and applying these concepts to real world applications like moving coil galvanometer. Ability to make decision on uses of different types of magnetic materials in making permanent and electromagnets.
SEPTEMBER (07) TERM- 1	**Chap.5: Magnetism and matter:** Bar magnet ,bar magnet as an equivalent solenoid (qualitative treatment only) Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis(Qualitative treatment only). Torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines.Magnetic properties of materials-Para-,dia-,and ferro- Para-, dia- and ferro - magnetic substances with examples. Magnetization of materials, effect of temperature on magnetic properties.	7 (4.66h)	Students will be able to-- *understand bar magnet as a solenoid *understand the magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to it's axis understand torque on a magnetic dipole (bar magnet) in a uniform magnetic field *understand para, dia and ferro magnetic substances, with examples *understand the effect of temperature on magnetic	Activity -- 3) Make a chart showing differences between dia, para and ferromagnetic materials.	Activity1) To measure resistance, voltage(AC/DC), current(AC) and check the continuity of a given circuit. 2) To study the variation in potential drop with length of a wire for a study current.	Analyze the properties of a bar magnet and to promote problem solving abilities and creative thinking in learners related to the concepts. Interpritation of bar magnet as a current carrying solenoid. Grasp the technical definitions and mathematical relationships among M, H, I etc. Students will achieve Core and functional competency in material classification.

OCTOBER (24)	**Electromagnetic Induction and Alternating Currents :** **Chap.6: Electromagnetic Induction:** Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction. **CHAP.7: Alternating Current**: Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only) resonance; power in AC circuits, power factor, wattless current. AC generator and transformer.	24 (16h)	*To make the students to understand about the EMI phenomenon, Faraday'slaw, Lenz's rule, Fleming's right hand rule and working principle of ac generator and transformer, methods to reduce losses in transformer *to make the students to define the following concepts--EMI, self induction and inductance,mutual induction and mutual inductance *to make student to differentiate between---EMI and magnetic effect of electric current, self and mutual inductance, step up and step down transformer * to develop skill in --carrying out activities by collecting required materials, in drawing the diagrams,drawing important conclusions * to develop logical reasoning and logical thinking in deriving the important relations of various concepts * to apply the knowledge of concepts in solving the numericals from the chapter. * to identify the special features of ac, recognize the importance of rms values,phase lag/ lead of current/ in resistor,inductor and capacitor *understand the resonance in LCR ac circuit *to understand the power factor and wattless current of ac.	Activities: 1) Demonstration of conversion of mechanical energy into electrical energy. 2) Demonstration of Lenz's rule. 3) Activity showing mutual induction. 4) Make a chart showing differences between dia, para and ferromagnetic materials.	**EXP. 4) To find the frequency of AC mains with a sonometer.** **Act. 3) To draw a diagram of a given circuit comprising at least a battery, a resistor/rheostat, key, ammeter and voltmeter. Mark the component that are not connected in proper order and correct the circuit and also the circuit diagram.**	**Understanding** Faraday's law, Lenz's law and AC circuit principles as well as the **ability to solve problems** involving induced EMI, currents and impedence.Students will develop the **ability to understand** working o generator and transformer. To expose the learners to different processes used in Physics- related industrial and technological applications.
NOVEMBER TERM - 2	Full Sylabuss		Revision And Term-2 Exam.			
DECEMBER PRE-BOARD EXAM.	Full Syllabus		Revision And Pre Board Exam.			
JANUARY	Full Syllabus		Revision And Pre Board Exam.			

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NAME OF INCHARGE TEACHER : ARCHANA TALELE

SIGNATURE OF THE PRINCIPAL :

CARMEL CONVENT SR SEC SCHOOL,RATANPUR,YEAR PLANNER:2026-27

CLASS : XII

SUBJECT: PHYSICS PART 2

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED FOR EACH UNIT(hours)	LEARNING OUTCOMES	ART INTEGRATED ACTIVITY/PROJECT	PRACTICALS	KEY COMPETENCIES TO BE ACHIEVED.
APRIL + JUNE	Ray Optics and Optical Instruments Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.	10	Recalls all the technical terms defined for spherical mirrors and identifies the correct sign conventions for mirrors and lenses. Draws ray diagram to determine the position of the image of an object and derives all the equations related to spherical mirrors. Knows Snell's laws of refraction and obtains the relationship among relative refractive indices of different materials Explains various phenomena related to refraction and the phenomenon of total internal reflection Derives the relationship between object and image distances and derives lens maker's and thin lens formula. Derives various relationships for a light ray passing through a	1. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle. 2)To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.	EXPERIMENTS EXP)To find the value of v for different values of u in case of a concave mirror and to find the focal length. EXP) To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and1/v. EXP) To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. ACT) To obtain a lens combination with the specified focal length by using two lenses	The child demonstrates a thorough understanding of the concepts of reflection and refraction of light. They accurately recall and apply technical terms associated with spherical mirrors, correctly use sign conventions for both mirrors and lenses, and proficiently draw ray diagrams to determine the nature and position of images. The learner is able to derive and explain all relevant mirror and lens equations, apply Snell's Laws of refraction, and understand the concept of relative refractive indices. Additionally, the child explains complex optical phenomena such as total internal reflection and the behavior of light through prisms. They derive mathematical relationships for light rays interacting with various optical elements including spherical surfaces and lenses. The child also

CARMEL CONVENT SR SEC SCHOOL,RATANPUR,YEAR PLANNER:2026-27

CLASS : XII

SUBJECT: PHYSICS PART 2

			prism. Explains the magnification by a microscope. Derives the expression for the magnification by a telescope		from the given set of lenses.	demonstrates a clear understanding of optical instruments by deriving expressions for magnification in microscopes and telescopes, indicating strong analytical and application-based skills in the study of light. .
JULY PT1 EXAM(RAY OPTICS)	WAVE OPTICS :Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).	9	Compares wave theory with corpuscular theory and explains geometrical optics in terms of wave optics. States Huygens principle, explains Snell's law of refraction, law of reflection and total internal reflection using the principle. States the Superposition principle of waves and derives the expressions for intensity of light for interference from coherent and incoherent light sources. Explains the Young's double slit experiment and derives the expression for fringe width in Young's experiment. .Explains what is diffraction of light waves and the pattern observed for diffraction from a single slit.	3)Study of Interference using a Double Slit Experiment 4)Show that i=e,refraction of light through glass slab.Observe the dependence of i and thickness of glass slab on lateral displacement. 5)construction of wave front with model.	ACT)To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab..	Understands wave nature of light by comparing wave and corpuscular theories, and applies Huygens' principle to explain reflection, refraction, and total internal reflection. Demonstrates understanding of interference and diffraction through experimental explanation and mathematical derivations, and applies the superposition principle to analyze light intensity patterns.
AUGUST	Semiconductor Electronics: Materials, Devices and Simple Circuits Energy bands in	6	Takes initiative to understand the history of development of	6)variation of barrier height with biasing.	EXP). To draw the I-V characteristic curve for a p-n	The child demonstrates a clear understanding of the

	conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode - diode as a rectifier.		semiconductor electronics. Classifies solids as conductors, semiconductors and insulators on the basis of resistivities and energy bands. .Explains the lattice structure and behaviour of intrinsic semiconductors. Explains how intrinsic semiconductors can be converted into extrinsic semiconductors. Defines and describes pn junction as the basic building block of semiconductor devices. Extrapolates the understanding of pn junction to create a pn diode and describes its behaviour under the effect of forward and reverse external bias. Explains the working of pn junction diode as a rectifier in electronic circuits.	7)Construction of rectifier.	junction in forward bias and reverse bias ACT)To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items	foundational concepts in semiconductor electronics. They take initiative to explore the historical evolution of semiconductor technology and accurately classify materials as conductors, semiconductors, or insulators based on their resistivity and energy band structure. The learner explains the lattice structure and behavior of intrinsic semiconductors and effectively describes the process of doping to convert intrinsic semiconductors into extrinsic types (n-type and p-type). The child identifies the **pn junction** as the fundamental building block of semiconductor devices and extrapolates this understanding to construct and analyze the behavior of a **pn diode** under both forward and reverse bias conditions. Furthermore, they explain the function of the **pn junction diode as a rectifier**, showcasing their ability to connect theoretical understanding with practical applications in electronic circuits.
SEPTEMBER (RAY OPTICS,	Dual Nature of Radiation and Matter: Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's	5	Describes the three significant historical experiments that lead to the discovery of electrons and recognises that	**8)Studying the Photoelectric Effect and Estimating**		The child understands key historical experiments leading to the discovery of the electron and recognizes the emission of valence electrons from metal

Semiconductor Electronics WAVE OPTICS)	photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waveswave nature of particles, de-Broglie relation. TERM 1		valence electrons can be emitted from the metal surfaces under certain conditions. Describes how photoelectric effect was first observed historically and identify the factors that leads to photoelectric emission in metals. Explains the variation of photoelectric current as a function of intensity of incident radiation & potential difference and describes the variation of stopping potential with frequency of the incident radiation. Describes the basic features of Einstein's explanation for photoelectric effect	**Planck's Constant"**		surfaces. They explain the photoelectric effect, identify factors affecting photoelectric emission, and analyze the relationship between photoelectric current, intensity, potential, and frequency. The child also comprehends Einstein's theory of the photoelectric effect and its key features.
OCTOBER	Atoms: Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom, Expression for radius of nth possible orbit, velocity and energy of electron in his orbit, of hydrogen line spectra (qualitative treatment only).	9	Takes initiative to understand historical experiments related to the atomic model. .Explains the nature of electron orbits basis Rutherford model of atom. Explains the characteristics of atomic spectra of hydrogen atom. 0.Takes initiative to study the details of simplest atomic spectra of hydrogen atom. States and explains why Rutherford nuclear model	9)Exploring the Structure of the Atom: An Investigatory Study on Rutherford's and Bohr's Atomic Models"		The child demonstrates a deep conceptual understanding of the evolution of atomic models. They take initiative to explore historical experiments and explain the structure of the atom based on Rutherford's and Bohr's models. The learner understands atomic spectra, identifies hydrogen's spectral lines, and explains them using Bohr's postulates. They also grasp the limitations of the Rutherford model and appreciate the improvements made by Bohr. Additionally, the

			failed and how Bohr model was a better model of atom. Identifies the energy levels of single electron in the hydrogen atom as per Bohr model. .Explains line spectra of hydrogen atom basis Bohr's postulate. Takes initiative to understand de-Broglie explanation of Bohr postulate of quantisation of angular momentum.			child connects modern concepts by understanding de Broglie's explanation of quantized angular momentum, reflecting a strong foundation in atomic theory
NOVEMBER	NUCLEi: Composition and size of nucleus, nuclear force Massenergy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion. EM WAVES: Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.	5 2	Describes the important characteristics of nuclear force. Describes nuclear fission as breaking up of large nucleus into smaller nuclei. Describes the nature of electromagnetic waves in terms of time-varying electric and magnetic fields. .Describes the electromagnetic spectrum, the different em waves, the order of their distribution in the em spectrum, the frequency ranges and states the applications of each of the type of e m wave.	Study of Binding Energy and Mass Defect in Nuclei		The child understands the fundamental characteristics of nuclear force, recognizing it as a strong, short-range, and charge-independent force. They clearly describe nuclear fission as the process of splitting a heavy nucleus into smaller nuclei, demonstrating awareness of the underlying principles of nuclear reactions. The child understands the nature of electromagnetic waves as oscillating electric and magnetic fields perpendicular to each other and the direction of wave propagation. They accurately describe the electromagnetic spectrum, identify different types of EM waves in order of frequency, specify their frequency ranges, and state practical applications for each type.

CARMEL CONVENT SR SEC SCHOOL,RATANPUR,YEAR PLANNER:2026-27

CLASS : XII

SUBJECT: PHYSICS PART 2

NOVEMBER	FULL SYLLABUS					TERM 2
JANUARY	FULL SYLLABUS					PREBOARD

NAME OF INCHARGE TEACHERS:

SIGNATURE OF SUBJECT CORDINATOR:

SIGNATURE OF PRINCIPAL:

CARMEL CONVENT SR SEC SCHOOL, RATANPUR, YEAR PLANNER:2026-27

CLASS:XII SUBJECT: ARTIFICIAL INTELLIGENCE

MONTH	NAME OF THE UNIT/CHAPTER AND SUB TOPICS	TIME ALLOTTED FOR EACH UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ ASSESMENT/ PRACTICALS	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL JUNE	PART A: Unit I- Communication skills-IV Unit II – Self management Skills -IV – Enterpreneural skills-IV PART B: Unit I : Python programming -II	8	Speak clearly and confidently in different situations…Listen actively and understand others' ideas and feelings… Set personal goals and prioritize tasks to achieve them, manage time, demonstrate self-discipline, handle stress and emotions etc. Understanding basic concepts of starting and managing a business..demonstrating risk taking and leadership qualities. Csv module of Python provides functionality to read and write tabular data in csv format. The 2 specific types of objects – reader and writer used for reading and writing into csv files. Learning how to deal with some contradictory or unexpected situation or in short, an error that is unexpected.	Setting short term goals, time management practice- using planners or to-do list, practicing yoga, meditation, balanced diet with proper sleep…	Draw a tree with roots having discipline, good sleep, healthy food…trunk write the strengths – punctual, hardworking, responsible etc. Branches: mention the goals Leaves and fruits : add achievements To implement Linear regression algorithm Dataset	Use Python's built-in file handling functions. Implement functions to add, view, modify and search in a nd array Use functions to draw shapes and patterns (squares, triangles, circles etc.)
JULY	Part A: Unit 3 : Information and communication Technology skills-IV Unit 5 : Green Skills -IV	12	Use digital devices confidently and responsibly.access, evaluate and use information effectively from the internet. Understand and practice cyber safefty and digital etiquette Protecting envioronment for the future generations	Open the spreadsheet with data entered into it. How can one quickly move the active cell to one page downwards? Rather than downwards or	Experient in the slide sorter view of impress, how to copy slides and how to move slides. Using the Ctrl key to move slides will copy the slides.	Water conservation, Green tourism, Green Job (green skills….environment sustainability)

				upwards can one move the active cell rightward or leftward without using the arrow keys?		
AUGUST	Part B: Unit 2:Data Science methodology . Understanding D.S. methodology . Steps of D.S. methodology - More about Model Validation Techniques - The Model performance Evaluation Metrics Unit 3 :Making machines see • Computer vision • Process • Application • Challenges • Future of computer vision	12	From Problem to Approach – Incorporating data science methodology into a capstone project provides structure, rigor and increases the likelihood of a successful outcome. Working with digital images Apply image processing techniques Use libraries and tools	Pavan visited a food festival and wants to sample various cuisines. But due to health concerns, he has to avoid certain dishes. However, since the dishes were not categorized by cuisine, he found it challenging and wished for assistance in identifying the cuisines offered…	Data Science methodology – a process with a prescribed sequence of iteractive steps that data scientists follow to approach a problem and find a solution. The five module diagram explaining the rationale as to why each stage is required. Creating images using 0s and 1s	Business Understanding /Problem definition Analytic approach Descriptive Analytic Diagnostic Analytics Predictive Analytics Prescriptive Analytics

September	Part B : Unit 4 : Data Mining • Understanding D.M. • Navigate the interface and learn about the components of Orange D.M. Tool • Know about the beneficiaries of O.D.M. Tool • Apply Orange to Data Science, Computer Vision and NLP Unit 5 : Big Data and Data Analytics • Understanding Big Data • Types of Big Data • Characteristics of Big Data • Data Analytics	12	• Understand the concept • Identify types of Data : • Perform Data preprocessing • Apply Data Mining techniqueUse tools and software such as RapidMiner, WEKA or python libraries • Interpret patterns and results • Develop analytical thinking • Follow ethical and legal practices	To predict whether a student will pass or fail a class based on their study habits and previous grades using Orange Data Mining Tool.	Install image Analytics Add-On: Example Scenarios Import Images Image visualization Image embedding Computing similarities	Concept of Data Mining, Orange as a programming tool, Orange's widgets, Add-Ons, Sample workflows, Image classification, NLP etc
OCTOBER	Unit 6 : Neral Network • Structure • Components • Types • Applications • Working Unit 7: Generative AI • Its working • Discriminative models • Application • Understang Large Language Models (LLM) • Ethical implications of Generative AI	12	Demonstartion of train-test split in Linear regression using python. • Chatbot using Google Gemini API • Orange Data Mining for Data Analytics • Classification problem using TensorFlow playground • Regression problem using Tensorflow playgroung • Linear and Non-Linear relationship • Training and Observation	Capstone Project : Python code to create a Pandas DataFrame using any sequence data type a. Display the DataFrame b. Display the first 5 records c. Display the last 10 records d. Display the number of missing values in the Data set.	Diagramitacally differentiating Biological Neuron versus Artificial Neural Network.	The art of conveying events, ideas, messages through a narrative… The practice of building a narrative around a set of data and its accompanying visualization to help convey the meaning in a powerful manner.

NOVEMBR	Unit 8: Data Storytelling • Benefits of storytelling • Appreciate the role of data storytelling, data science etc • Combining • Gain skills to draw insights FULL SYLLABUS	5	The graphical representation of data, such as charts, graphs and maps. It helps data more accessible and understandable. Data Visualization is a key component of Data Storytelling. Term-II	Chatbot using Google Gemini API	Data storytelling combines data, visuals, and narrative to effectively present complex information	Creating simple narrative which is hidden in the data to be communicated to the audience.
DECEMBER	FULL SYLLABUS		Pre-Board			

SIGNATURE OF SUBJECT CORDINATOR: Lata Iyer

NAME OF INCHARGE TEACHERS: Lata Iyer

SIGNATURE OF PRINCIPAL:

CARMEL CONVENT SR SEC SCHOOL, RATANPUR, YEAR PLANNER:2026-27

CLASS:XII SUBJECT: COMPUTER SCIENCE

MONTH	NAME OF THE UNIT/CHAPTER AND SUB TOPICS	TIM E ALL OTTED FOR EAC H UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES AND ASSESMENT/ PRACTICALS	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL JUNE	**Computational Thinking and Programming Revsn. of Python topics covered in class XI** Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) Python Libraries: What is Library? Importing Modules in a Python Program. Using standard Python Library's Functions and Modules. Creating a Python Library. Data File Hnadling : Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods,	20	Large programs are difficult to manage...therefore it is broken down into smaller units known as functions. .... which is a named unit of a group of program statements. This unit can be invoked from other parts of the program. Students learn how a data is stored in a file thru python program and the different operations implemented on the data file. Students learn to store information permanently. Database programs create files of information; compilers read source files and generate executable files. So it is the files that are mostly worked with, inside program. A file is buch of bytes stored on same storage device like hard-disk, thumb-drive etc.	Create a digital gallery using, Python's file handling capabilities. Store and display artwork information in a file Use Functions to create reusable and modular code.	How are objects stored in lists and dictionaries different? What is the length of tuple shown below: t=((('a',1),'b','c'),'d',2),'e', 3) write a program that rotates the elements of a list so that element at the first index moves to the second index, the element at the second index moves to the third index ...etc and the last element moves to the first index. Write a program create a data file and then modify the name of rollno 12 as Gurnam in file stu.dat. Display the records of the file stu.dat, which	Use Python's built-in file handling functions. Implement functions to add, view, modify and search data from any file like Binary, Text or CSV. Use functions to draw shapes and patterns (squares, triangles, circles etc.)

	manipulation of data in a text file Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file				has been modified. Read the last 15 bytes from a text file.	
JULY	Data File handling continued …... CSV file: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader( )	10	Csv module of Python provides functionality to read and write tabular data in csv format. The 2 specific types of objects – reader and writer used for reading and writing into csv files. Learning how to deal with some contradictory or unexpected situation or in short, an error that is unexpected.	Create a CSV file to store information about art pieces, including : Title, Artist, Medium, Year created and price.	Program to create a CSV file to store student data(Rollno,Name, marks). Obtain data from the user and store random number of records.... Program to handle multiple exceptions	Knowing the different file modes and when to use them ('r','w','a') Knowing how to read and write in a CSV file.
AUGUST	Data Structure • Elementary Data representation • Different Data Structures ○ Linear Lists Arrays ○ Stacks ○ Queues ○ Linked Lists ○ Trees • Operations on Data Structures ○ Stacks • Implementing Stack in Python ○ Stack Applications	30	Students learn the difference between Raw data and Data Item..types of structures...designing data structures and the operations applied on data structures. It is the physical implementation that clearly defines a way of storing, accessing, manipulating data stored in a data structure. The working of STACK data structure using Last In First Out principle.	Create a program that allows users to : • Add Art pieces to a stack (push operation) • Remove art pieces from the stack (pop operation) • View the top art piece(peek operation)	Write a program to implement the following operations in the following stack: Each node of the stack contains : Pin code of a city and Name of the city. (a) PUSH()- to push a node in the stack (b) POP() To remove a node from the stack	Knowing how to implement common data structures such as lists, tuples, dictionaries, sets and stacks. Understanding the different trade-offs between different data structures.

Sep tem ber	Database management : Database Concepts Relational data model Simple queries in SQL Table creation and Data Manipulation commands Grouping Records, Joins in SQL Interface Python with MySQL Introduction Connecting to MySQL from Python Parameterised queries Performing Insert and Update Queries	20	Learning about database which is the repository of information needed in running certion functions in a corporation or organization. Which permits retrievel of data but also modification of data needed for control of operations	Create a database to store information about art pieces, including : Title, Artist, Medium, Year created and price.	Why are foreign keys allowed NULL values? Explain. Compared to a file system, how does a database management system avoid redundancy in data through a database.	Knowing the basic concept of databases such as relational databases, NoSQL databases and database design. Understanding the importance of database management in software sevelopment.
OCTO BER	Computer Networks – I • Introduction • Computer Networks – An introduction • Types of Networks • Evolution of Networking • Switching Techniques • Data Communication Terminologies • Transmission Media • Network Topologies • Identifying nodes on a Computer Network.	20	Making the students understand that connections among humans make human network and connections among computers make computer network. There are ways of connecting one computer to another so also the placement of the systems i.e. the distance the the way communication takes place is an important part of study.	Create a server program that acts as the central hub for the art gallaries. Allow art gallaries to : Send msgs to each other Share information about art pieces Request information from others	Your school administration wants to upload an excel file having about 100 worksheets at the rate of 10 sheets per 20 seconds. What will be the required data rate of the channel? (Assume that every sheet has a standard size of 4800bts	Knowing concepts of computer networking such as : Network Protocols (TCP/IP, HTTP, FTP rtc.) Network Architecture Network devices (Router, switches etc.)

NOVEMBR	Computer Networks – II • Network Devices • Network Protocols • Wireless/Mobile Computing Technologies • Internetworking Terms and Concepts • Network Security Concepts	5	Learning about the various and most prevalently used used Network devices, various network protocols and related communication technologies		What is a modem, Ethernet card, RJ-45, Hub, Witch, Bridge, Router Gateway, Host... and other list of abbreviations	Key concepts: Network protocols Socket programming Network architecture Error handling Network Security
DECEMBER	FULL SYLLABUS		Term-II			
JANUARY	FULL SYLLABUS		Pre-Board			

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CARMEL CONVENT SR SEC SCHOOL,RATANPUR,YEAR PLANNER:2026-27

CLASS : XII SUBJECT: HINDI CORE [302]

MONTH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ ASSESSMENT/PRACTICAL	ART INTEGRATED ACTIVITIES	KEY COMPETENCIES TO BE ACHIEVED.
April	गद्य: भक्तिन	6	जीवन की विभिन्न परिस्थितियों में विभिन्न चुनौतियों को स्पष्ट कर संघर्ष कर सकेंगे।	किरण बेदी की आत्मकथा पढ़कर साथियों के साथ उनके जीवन संघर्षों की चर्चा कीजिए।	किसी नारी प्रधान फिल्म को देखकर उसकी समीक्षा लिखिए।	आलोचनात्मक सोच
	पद्य: आत्म -परिचय, एक गीत	6	कवि के कल्पना संसार, भावार्थ और जीवन से जुड़े उद्देश्य को स्पष्ट कर सकेंगे।	एक गीत की तरह किसी विचार को आधार बनाकर कविता लेखन कीजिए।	बच्चन जी की अन्य रचनाओं को पढ़कर तुलनात्मक अध्ययन करते हुए उनकी रचनाओं पर प्रकाश डालिए।	रचनात्मकता
	अभिव्यक्ति और माध्यम: विभिन्न माध्यमों के लिए लेखन	6	विद्यार्थी जनसंचार के विभिन्न माध्यमों की खूबियां और खामियों को समझ सकेंगे।	दूरदर्शन समाचार एवं किसी निजी समाचार चैनल के समाचार बुलेटिन की तुलनात्मक रिपोर्ट तैयार कीजिए।	आपके अनुसार प्रिंट माध्यम, रेडियो और टीवी में से सबसे सशक्त माध्यम कौन-सा है? पक्ष-विपक्ष में तर्क दें।	अनुसंधान कौशल
JUNE	गद्य: बाज़ार दर्शन	6	बाज़ार की आवश्यकता एवं सार्थकता को समझकर तदनुरूप आचरण करना सीखेंगे।	बाज़ार के अपने किसी अनुभव को लिखिए।	किसी उत्पाद के प्रचार-प्रसार हेतु आकर्षक विज्ञापन का निर्माण कीजिए।	रचनात्मकता
	पद्य: पतंग	5	अलंकृत भाषा के उचित रूप को समझकर उपयोग कर सकेंगे।	अपनी काल्पनिक उड़ान में आप कहाँ की सैर करते हैं ?	दुनिया की सबसे हल्की चीज पतंग का कलात्मक ढंग से निर्माण कीजिए।	कलात्मकता
	अभिव्यक्ति और माध्यम: पत्रकारीय लेखन	6	पत्रकारीय लेखन के विभिन्न रूप और प्रक्रिया को समझकर अपने लेखन कौशल को समृद्ध कर सकेंगे।	अपने पसंदीदा फ़ीचर चुनकर कक्षा में सुनाइए।	विभिन्न समाचार-पत्रों और पत्रिकाओं में से कतरने काटकर कोलाज़ बनाइए।	मौखिक संचार
JULY	गद्य : काले मेघा पानी दे	6	पानी जैसी अत्यावश्यक चीज के लिए एक आम आदमी के प्रयासों और विश्वासों में छपी व्यवस्था को समझ सकेंगे।	वाटर हार्वेस्टिंग की प्रक्रिया को समझिए और साथियों के साथ चर्चा कीजिए।	'जल-संरक्षण' पर आधारित किन्ही चार नारों का कलात्मक लेखन कीजिए।	कल्पनाशीलता एवं नवाचार

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	पद्य : कविता के बहाने, बात सीधी थी पर	5	भाषा की सादगी और उचित प्रयोग का महत्व समझ सकेंगे।	शब्दकोश से कुछ नए शब्दों का चयन कर आत्मसात कीजिए।	किसी स्वैच्छिक विषय पर लगभग 70-80 शब्दों में कविता लेखन कीजिए।	रचनात्मकता
	PT-1 [13/7/26]		प्रथम त्रैमासिक परीक्षा		प्रथम त्रैमासिक परीक्षा	
	वितान: सिल्वर वेडिंग	8	पीढ़ीगत अंतर को समझ कर तदनुरूप आचरण करना सीखेंगे।	आपको क्या लगता हे यशोधर बाबू गलत थे /	अपने आस-पास रहने वाले किसी यशोधर बाबू जैसे चरित्र का चरित्र- चित्रण कीजिए।	नैतिकता एवं पारिस्थितिकी तंत्र की समझ
	अभिव्यक्ति और माध्यम: विशेष लेखन	5	विविध क्षेत्रों में विशिष्ट लेखन की प्रक्रिया को समझ कर लेखन कौशल को समृद्ध कर सकेंगे।	शिक्षा में ए आई के प्रयोग पर विशिष्ट लेखन कीजिए।	किसी समाचार पत्र में प्रतिदिन प्रकाशित होने वाले मंडी के भावों पर आधारित समाचारों को एकत्र कर उनका विश्लेषण कीजिए। क्या यह समाचार एक सामान्य पाठक की समझ में आ सकते हैं?	आर्थिक और वित्तीय साक्षरता
AUGUST	गद्य: : पहलवान की ढोलक	6	देश में खेल-खिलाड़ियों की परिस्थितियों,चुनौतियों और प्राप्त सुविधाओं पर चर्चा कर सकेंगे।	खेल में अपनी रुचियों को कक्षा में साझा कीजिए।	कहानी 'पहलवान की ढोलक' में वर्णित घटनाक्रम की रेडियो नाटक प्रस्तुति दीजिए।	मीडिया और इंटरनेट साक्षरता
	पद्य: कैमरे में बंद अपाहिज	5	शारीरिक चुनौतियों को झेलने वाले व्यक्तियों की त्रासदी को समझकर उनकी सहायता हेतु कदम उठा सकेंगे।	किसी विकलांग की सहायता हेतु आप क्या करेंगे ?	कविता के आधार पर पटकथा लेखन कीजिए।	कार्य-योजना एवं समस्या समाधान
	वितान: जूझ	8	जीवन के संघर्षों का सहजता से सामना करने हेतु प्रस्तुत होंगे।	जीवन में संघर्षों क महत्व पर अनुच्छेद लेखन कीजिए।	लेखक की चारित्रिक विशेषताओं को बिंदुवार लिखिए।	जिज्ञासा, अनुकूलनशीलता एवं विश्लेषण
	अभिव्यक्ति और माध्यम: *कहानी का नाट्य रूपांतरण	4 3	लेखन की कला को समझ कर भाषायी दक्षता प्राप्त कर सकेंगे।	एक रेडियो नाटक लिखिए।	अपने निकटवर्ती परिवेश एवं सामाजिक मुद्दों पर सूक्ष्म दृष्टि रखते हुए रचनात्मक लेखन कीजिए।	सूचना एवं संचार प्रौद्योगिकी साक्षरता

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	*कैसे बनता है रेडियो नाटक *नए और अप्रत्याशित विषयों पर लेखन	4				
SEPTEMBER	वितान : अतीत में दबे पांव	8	विभिन्न वक्तव्य के पक्ष और विपक्ष में विषय-वस्तु में से तथ्यों की खोज-परख कर सकेंगे। जैसे- सिंधु सभ्यता कितनी पुरानी है/ उसके विषय में कैसे पता चलता है?	किसी ऐतिहासिक स्थल की यात्रा कर अपने अनुभव साझा कीजिए।	भोपाल एवं उसके आसपास के किसी ऐतिहासिक महत्व की इमारत पर आधारित लघु फिल्म बनाइए।	नेतृत्व ,टीमवर्क,सहयोग एवं सहकारिता
	TERM-1 [0 1 /9/26]		अर्धवार्षिक परीक्षा		अर्धवार्षिक परीक्षा	अर्धवार्षिक परीक्षा
OCTOBER	गद्य: शिरीष के फूल	8	शिरीष के फूल की तरह किसी और प्राकृतिक वस्तु से जीवन की सहज प्रेरणा ले सकेंगे।	अपने आसपास किसी फलदार घने वृक्ष का रोपण कर उसकी देखभाल कीजिए।	'राजनीतिक गलियारों में कुर्सी का मोह' विषय पर वाद-विवाद का आयोजन कीजिए।	तर्क, विश्लेषण, आलोचनात्मक सोच एवं समस्या समाधान
	गद्य : श्रम विभाजन	8	भारत देश में जातिवाद के कारण उत्पन्न विवादों को समझकर समस्या समाधान हेतु प्रयासरत होंगे।	निम्न जाति की वास्तविक समस्याओं को जानने का प्रयास कीजिए।	अंबेडकर जी की सचित्र जीवनी लिखकर उनके विचारों की विशिष्टता पर प्रकाश डालिए।	वैचारिकता एवं भाषा कौशल
	पद्य: उषा	4	गतिशील वर्णन और बिंब वर्णन के लिए विशिष्ट शब्द-ज्ञान का संचय कर सकेंगे।	सुबह चार बजे उठकर सूर्योदय दर्शन कर अपनी अनुभूति से साथियों को परिचित कराइए।	प्रातः कालीन सौंदर्य/वर्षा ऋतु में प्रकृति के सौंदर्य की आकर्षक चित्रात्मक प्रस्तुति कीजिए।	प्रकृति से निकटता एवं नवाचार
	पद्य : बादल राग	5	प्रगतिवादी विचारधारा और लघु मान संप्रदाय पर चर्चा कर सकेंगे।	कविता को लयात्मक ढंग से प्रस्तुत कीजिए।	आकाश में छाए बादलों के सौंदर्य का चित्रण कीजिए।	संगीत के प्रति अभिरुचि
NOVEMBER	पद्य: कवितावली	10	विषय-वस्तु के आधार पर सामाजिक और सांस्कृतिक परिस्थितियों का विश्लेषण कर उसका औचित्य बता सकेंगे।	पैसों की शक्ति विषय पर चर्चा कीजिए।	वर्तमान समय में समाज में आप किस तरह की विसंगतियां पाते हैं? उनके निराकरण हेतु उपाय बताइए। विस्तृत चर्चा।	बहुसांस्कृतिक साक्षरता एवं मानवतावाद
	पद्य :रुबाइयाँ	3	कविता में रूपक अलंकार के प्रयोग और भाव को समझ सकेंगे।	अपने पसंदीदा गायक की गजलों का आनंद लीजिए।	विविध अलंकारों का प्रयोग करते हुए स्वैच्छिक विषय पर कविता सृजन कीजिए।	अनुसंधान कौशल एवं रचनात्मकता

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	पद्य : छोटा मेरा खेत, बगुलों के पंख TERM-2 [16/11/26]	6	प्राकृतिक दृश्य को किसी कला के माध्यम से दर्शाने में सक्षम होंगे। TERM 2		पक्षियों के संरक्षण हेतु आप कौन-से आवश्यक कदम उठाएंगे तथा अन्य लोगों को इस हेतु किस तरह प्रेरित करेंगे? अपने घर में रखे पुराने कबाड़ का कलात्मक ढंग से उपयोग करते हुए एक पक्षी घर बनाइए। TERM2	सृजनशीलता एवं कलात्मकता पर्यावरण और संरक्षण साक्षरता TERM2
DECEMBER	पाठ्यक्रम की पुनरावृत्ति एवं प्रायोगिक परीक्षा [1/12/26]		पुनरावृत्ति एवं प्रायोगिक परीक्षा	पाठ प्रत्यास्मरण कीजिए।	पुनरावृत्ति एवं प्रायोगिक परीक्षा	पुनरावृत्ति एवं प्रायोगिक परीक्षा
JANUARY	प्री-बोर्ड परीक्षा [10/12/26]		प्री-बोर्ड परीक्षा		प्री-बोर्ड परीक्षा	प्री-बोर्ड परीक्षा
FEBRUARY & MARCH	बोर्ड परीक्षा		बोर्ड परीक्षा		बोर्ड परीक्षा	बोर्ड परीक्षा

NAME OF INCHARGE TEACHERS: SUNITA BHATNAGAR SIGNATURE OF SUBJECT CORDINATOR:

SIGNATURE OF PRINCIPAL: