

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

CLASS:XI

SUBJECT: ARTIFICIAL INTELLIGENCE (843)

MONTH	NAME OF THE UNIT/CHAPTER AND SUB TOPICS	TIME ALLOTTED FOR EACH UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ASSESSMENT/PRACTICALS	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
April - June	Part B - Unit 1: Introduction: AI for Everyone - History of AI - AI vs regular coding - Data, Computer Vision, and NLP	15 Hours	Understand what AI is and its three main domains.	Group discussion on AI apps used in daily life.	Create a poster showing how AI helps society.	Critical thinking and AI tech awareness.
July	Part A - Unit 1 & 2: Employability Skills - Communication Skills-III - Self-Management Skills-III	10 Hours	Speak clearly and manage personal time well.	Roleplay exercises and setting personal goal charts.	Design a visual daily time-management wheel.	Public speaking and self-discipline.
August	Part B - Unit 2 & 5: Future in AI & Data Literacy - AI career paths and skills - Data collection, cleaning, and analysis	15 Hours	Know AI jobs and how to handle big data sets.	Practical: Clean a messy Excel data sheet.	Draw a career mind-map tree with colors.	Data analysis and career planning.

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September	Part B - Unit 3: Python Programming (Part 1) • Python basics, variables, and loops • Introduction to NumPy	25 Hours	Write simple Python code and handle basic arrays.	Practical: Write Python scripts for basic math logic.	Code a pixel-art pattern using basic Python data.	Logic building and coding skills.
October	Part B - Unit 3: Python Programming (Part 2) • Advanced Python and Pandas library • Data frames and data manipulation	20 Hours	Use Pandas to sort and filter large data tables.	Practical: Import a CSV file into Python and sort it.	Create colorful data charts and graphs in Python.	Computational thinking and data science.
November	Part B - Unit 6 & 7: ML Algorithms & Linguistics • Regression and Classification algorithms • Natural Language Processing (NLP) basics	20 Hours	Learn how machines learn patterns and human speech.	Practical: Run a basic classification tool on test data.	Make a comic strip explaining how a chatbot works.	Pattern recognition and linguistic logic.
December	Part B - Unit 4 & 8: Capstone Project & AI Ethics • Designing an AI project • AI bias, privacy, and values	15 Hours	Plan an AI project safely while respecting privacy rules.	Draft a project proposal layout and debate AI ethics.	Design an ethical "AI Safety" rule book cover.	Project design and ethical reasoning.

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January	Part A - Unit 3, 4 & 5: Remaining Employability Skills • ICT Skills-III, Entrepreneurial Skills-III • Green Skills-III	10 Hours	Master basic IT tools, business ideas, and green habits.	Create a mock business plan for an eco-friendly store.	Make an eco-friendly collage out of recycled items.	Green tech awareness and business mindset.
February	Project Finalization & Revision • Submission of Capstone Project • Revision of all theory and practical coding	10 Hours	Complete the final portfolio and fix coding bugs.	Final practical lab viva exam and project presentation.	Present the capstone project using a creative slide deck.	Problem-solving and teamwork.

NAME OF INCHARGE TEACHERS: Lata Iyer

SIGNATURE OF SUBJECT CORDINATOR: Lata Iyer

SIGNATURE OF PRINCIPAL:

Month	Name of Unit/Chapter/Topic	Time Allotted Period/Hours	Learning Outcome	Art Integrated Activity/Project	Practical	Key Competencies to be Achieved
June 2026	- The Portrait of a Lady - A Photograph - Summer of the Beautiful White Horse - Poster	– 8 Pd. / 6 Hrs. – 3 Pd. / 2.5 Hrs. – 8 Pd. / 6 Hrs. – 3 Pd. / 2.5 Hrs. Total = 16 Hrs.	- Students will be able to understand the main idea of the story. - Students will be able to identify and analyze the mood of the poem based on the imagery - Students will be able to develop and organize a short play based on justice, truth and loyalty	- Find new words every day and make a Dictionary - Make a diary entry of the Day's activities on a weekly basis - Prepare a speech on the topic "JUSTICE DELAYED IS JUSTICE DENIED"	No	- Write on the need for holidays in the Modern Stressful Times - Write a short description of someone you liked/like a lot "We have been famous for our honesty for something like eleven centuries" – The narrator describes his family in these words. Write a paragraph on the possibility to remain honest in these Modern Times.
July 2026	- We are not afraid to die - The Laburnum Top - Classified Advertisement - Tenses - Note Making (Part 1)	– 8 Pd. / 6 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. Total = 14 Hrs.	Students will be able to know that the collective power of unity and never-failing confidence of the people can make possible to survive and come out of the danger		No	"Adventures make life worth living" Comment. - Explain the Theme and Symbolism in the poem "The Laburnum Top"
August 2026	- Discovering Tut - The Voice of Rain - The Address - Clauses - Speech - Comprehension - Revision	– 8 Pd. / 6 Hrs. – 3 Pd. / 2.5 Hrs. – 6 Pd. / 4.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 4 Pd. / 3 Hrs. Total = 21 Hrs.	Students will be able to understand and identify the culture, elements of science & earth, archaeology and myth.		No	- Discuss the suitability of the title "Discovering Tut" - What does the poet do to turn Rain into a living entity? - Justify the title of the story "The Address"
September 2026	- Silk Road - Childhood - Determiners - Clauses - Note Making (Part 2) - Debate - Speech	– 8 Pd. / 6 Hrs. – 6 Pd. / 4.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. Total = 20 Hrs.	Students will be able to understand the transmitted cultural exchange including theatrical performance, dance and music arts.		No	- Discuss the accounts of exotic places in Legends and in reality - Why does the child refer to Heaven & Hell?

Month	Name of Unit/Chapter/Topic	Time Allotted Period/Hours	Learning Outcome	Art Integrated Activity/Project	Practical	Key Competencies to be Achieved
October 2026	• Mother's Day • Father to Son • Debate • Poster • Comprehension • Classified Advertisement	– 8 Pd. / 6 Hrs. – 8 Pd. / 6 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. Total = 20 Hrs.	• Students will be able to understand the real concept of Love, Respect & Obedience towards their parents.		No	• What is the difference between Mrs. Pearson & Mrs. Fitzgerald? How do they complement each other? • Dwell on the theme of the poem "Father to Son"
November 2026	• The Tale of Melon City • The Adventure • Birth • Subject Verb Agreement • Revision	– 8 Pd. / 6 Hrs. – 8 Pd. / 6 Hrs. – 8 Pd. / 6 Hrs. – 3 Pd. / 2.5 Hrs. – 4 Pd. / 3 Hrs. Total = 23 Hrs.	• Students will be able to write descriptive passage on literature, appreciating linguistic and literary features		No	• Narrate the "Tale of Melon City" on one's own words highlighting the message. • How did Rajendra Deshpande explain Gangadhar Pant's experience? • What qualities enabled Andrew Manson to help the Morgan Family?
December 2026	• Direct-Indirect Speech • Letter to the editor • Active/Passive Voice • Speech	– 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. Total = 8 Hrs.	• Students will be able to understand the difference between Direct & Indirect Speech		No	• Write a speech on the topic "Growing Violence in Today's World"
January 2027	• Classified Advertisement • Debate • Speech • Reading Comprehension • Viva • Revision	– 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 3 Pd. / 2.5 Hrs. – 6 Pd. / 4.5 Hrs. – 6 Pd. / 4.5 Hrs. – 6 Pd. / 4.5 Hrs. Total = 18 Hrs.	• Students will be able to analyze the different perspectives on current event/issue		No	• "Social media is a curse in a large population like ours". Write a debate - for/against the motion.

Name of the Subject Teacher: MR. SOLOMON RICHARDS

Signature of the Subject Coordinator

Signature of Principal

CARMEL CONVENT SR. SEC. SCHOOL, RATANPUR, BHOPAL
YEAR PLANNER 2026-27 | CLASS: XI | SUBJECT: CHEMISTRY

Reference Document: DOC-20260608-WA0010.

MONTH	NAME OF THE UNIT / CHAPTER AND SUB-TOPICS	TIME ALLOTTED FOR EACH UNIT	LEARNING OUTCOMES	ART-INTEGRATED ACTIVITY / PROJECT	PRACTICALS	KEY COMPETENCIES TO BE ACHIEVED
April-June	1. Some Basic Concepts of Chemistry: - Importance of chemistry - Laws of chemical combination - Mole concept and molar mass - Stoichiometry 2. Structure of Atom: - Orbitals, quantum numbers, shapes of s, p and d orbitals - Rules for filling electrons in orbitals: Aufbau principle, Pauli's exclusion principle, and Hund's rule - Electronic	14 Hours 8 Hours	• Understands basic chemical laws and mole concept. • Understand the structure of an atom and orbitals. • Explain quantum numbers and their significance. • Identify the shapes of s, p, and d orbitals. • Apply Aufbau Principle, Pauli Exclusion Principle, and Hund's Rule. • Write electronic configurations of atoms. • Explain the stability of half-filled and completely filled	• Worksheet on mole concepts. • Model of atomic orbitals using clay or paper craft.	• Titration-1 (Scheduled in June)	• Critical thinking • Numeracy • Problem-solving • Scientific inquiry • Analytical thinking • Application of electronic configuration concepts.

	configuration of atoms - Stability of half-filled and completely filled orbitals.		orbitals.			
July	3. Classification of Elements and Periodicity in Properties: - Brief history of the development of periodic table - Modern periodic law - Periodic trends 4. Chemical Bonding and Molecular Structure: - Ionic, covalent, and coordinate bonding - VSEPR theory	12 Hours 7 Hours	• Understand periodic classification and modern periodic law. • Analyse periodic trends of elements and predict properties of elements. • Understand ionic, covalent, and coordinate bonding. • Predict molecular shapes using VSEPR theory. • Describes bonding and geometry of molecules.	• Periodic Table puzzle or 3D model. • Clay models for different geometries of molecules. [Assessment: PT-1 (Chapters 1, 2, 3 and 4)]	• Titration-2: Preparation of standard solution to find the strength of a given solution. • Titration-3	• Analytical thinking • Classification skills • Pattern recognition • Prediction of element properties • Molecular visualization • Spatial reasoning • Logical reasoning
August	CHAPTER-2: Structure of Atom (Contd.): - Discovery of Electron, Proton	10 Hours	• Illustrate the concept of shells and subshells based on the Bohr-Bury	• Poster Making: 'Dual Nature of Matter & Light'. • Draw the Molecular orbital	• 5. Salt Analysis: Systematic identification of Acid and Basic Radicals.	• Scientific Inquiry and Reasoning • Analytical Thinking • Conceptual

	and Neutron - Atomic number, isotopes and isobars - Thomson's model and its limitations - Rutherford's model and its limitations - Bohr's model and its limitations - Concept of shells and subshells - Dual nature of matter and light, de Broglie's relationship - Heisenberg uncertainty principle 4. Chemical Bonding and Molecular Structure (Contd.): - Hybridisation - Molecular orbital Theory 7. Redox Reactions:	7 Hours 8 Hours 8 Hours	scheme. • Understand the dual nature of matter and radiation; explain de Broglie's hypothesis. • Analyze how modern atomic theory evolved from classical models. • Predicts the type of hybridisation. • Draw the Molecular orbital diagram. • Identifies redox changes in reactions. • Understands basics of organic reactions and mechanisms.	diagram. • Balancing of redox reactions exercises. • Worksheet on nomenclature.		Understanding and application • Predictive ability • Conceptual learning • Deductive reasoning • Analytical skill • Naming conventions
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	- Oxidation and reduction - Redox reactions in terms of electron transfer - Balancing methods 8. Chemistry: Some Basic Principles and Techniques: - Nomenclature					
September	TERM-1 EXAMINATION Comprehensive Revision of syllabus covered from April to August.	Syllabus: Chapters 1, 2, 3, 4, 7, 8	• Evaluate academic progress, conceptual clarity, and written expression under real examination conditions.	• Academic Performance Review and Self-Assessment tracking.	• Practical Exam: - Titration - Salt analysis	• Time Management • Stress tolerance • Memory retention and recall • Examination strategic execution
September-October	5. Thermodynamics: - Concepts of system and surroundings - First law of thermodynamics - Enthalpy Changes - Entropy	18 Hours 14 Hours	• Understands energy changes in chemical processes. • Understands and gets knowledge about different purification methods. • Understand electronic effects	• Thermodynamics core formulas worksheet. • Flowchart on different purification methods. [Assessment: PT-2 Ch. 5 & 8]	• Advanced Salt Analysis challenges.	• Data analysis • Energy conservation awareness • Reaction interpretation • Problem-solving • Organic chemistry structural

	- Gibbs energy - Spontaneity 8. Chemistry: Some Basic Principles and Techniques (Contd.): - Electronic effects - Types of organic Reactions - Purification techniques, qualitative and quantitative analysis.		and classify different types of organic reactions.	scheduled in Nov]		application
November-December	6. Equilibrium: - Equilibrium in physical and chemical processes - Le Chatelier's principle - Ionic equilibrium 9. Hydrocarbons: - Alkanes, alkenes, alkynes and aromatic hydrocarbons - Physical and	14 Hours 19 Hours	• Applies equilibrium concepts in real-life and industrial situations. • Understand the classification, structure, physical and chemical properties of alkanes, alkenes, alkynes, and aromatic hydrocarbons.	• Solve NCERT numericals on Equilibrium. • Model of different hydrocarbons using sticks and balls.	• Organic Chemistry: Element Detection in organic compounds.	• Observation skills • Predictive skills • Classification skills • Analytical thinking • Reaction interpretation

	chemical properties					
January-February	TERM-2 EXAMINATION / FINAL EVALUATION Complete Revision of the Entire Syllabus.	Full Syllabus (Chapters 1 to 9)	• Demonstrate complete conceptual mastery and application capability across all units of Class XI Chemistry.	• Mock board-pattern test series and strategic answer-writing workshops.	• Final Practical Records Verification and Mock Viva-voce.	• Academic Excellence • Problem-solving synthesis • Continuous learning mindset

NAME OF INCHARGE TEACHERS:

1. Bindu Dalal
2. Pragati Vijay

SIGNATURE OF SUBJECT COORDINATOR: _____

SIGNATURE OF PRINCIPAL: _____

MON TH	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTT ED FOR EACH UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ ASSESSMENT/PRACT ICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES TO BE ACHIVED
April	Test, Measurement & Evaluation / Unit 6 1. Define Test, Measurements and Evaluation. 2. Importance of Test, Measurements and Evaluation in Sports. 3. Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site) 4. Somato Types (Endomorphy, Mesomorphy & Ectomorphy) 5. Measurements of health-related fitness Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation 5. Axis and Planes – Concept and its application in body movements	160 min	After completing the unit, the student s will be able to: - Define the terms test, measurement, and evaluation, - Differentiate norm and criterion referenced standards, - Differentiate formative and summative evaluation, • Discuss the importance of measurement and evaluation processes, - Understand BMI: A popular clinical standard and its computation and physical education. - Illustrate fundamental body movements and their basic patterns. - Learn about the Axis and Planes and their application with body movements.	Group discussion on the meaning and significance of test, measurement, and evaluation; prepare a comparative chart. Measure height, weight, waist, and hip circumference; calculate BMI and Waist-Hip Ratio; demonstrate skinfold measurement. Conduct fitness tests such as flexibility, endurance, muscular strength, and body composition assessments.	Design a mind map showing the relationship between test, measurement, and evaluation. Prepare a health and fitness assessment chart using collected data. Create a step-by-step infographic showing how to calculate BMI and WHR. Create a fitness record chart or “Health Fitness Report Card” for students.	Concept clarity, analytical thinking, understanding of assessment process in sports. Awareness of fitness assessment, decision-making, data interpretation skills. Numerical ability, health awareness, practical application of fitness concepts, data handling. Physical fitness awareness, self-assessment, interpretation of fitness levels, goal setting.

	Extension,Abduction, Adduction,Rotation, Circumduction, Supination & Pronation 5. Axis and Planes – Concept and its application in body movements					
june	Physical Fitness, Wellness, and Lifestyle / Unit 5 1. Meaning & importance of Wellness, Health, and Physical Fitness. 2.Components/Dimensions of Wellness, Health, and Physical Fitness 3. Traditional Sports & Regional Games for promoting wellness 4. Leadership through Physical Activity and Sports 5. Introduction to First Aid – PRICE	160 min	After completing the unit, the students will be able to: • Explain wellness and its importance and define the components of wellness. • Classify physical fitness and recognize its importance in life. • Distinguish between skillrelated and health-related components of physical fitness. • Illustrate traditional sports and regional games to promote wellness. • Relate leadership through physical activity and sports	Group discussion on the importance of fitness and healthy lifestyle; prepare a daily wellness diary; quiz on health concepts Identify and explain physical, emotional, social, intellectual, spiritual, and environmental	Create posters, slogans, or collages depicting healthy habits and wellness Design charts, paintings, or models representing traditional games and their cultural significance.	Understanding of wellness concepts, awareness of healthy lifestyle choices, communication skills. Leadership, decision-making, teamwork, responsibility, confidence-building.
JULY	Unit 3 Yoga 1. Meaning and importance of Yoga 2. Introduction to Astanga Yoga	200 min	After completing the unit, the students will be able to: • Recognize the concept of yoga and be aware of the importance; of it • Identify the elements of yoga	Group discussion on the benefits of Yoga; prepare a chart on physical, mental, and emotional benefits; quiz on Yoga concepts.	Design posters, slogans, or collages highlighting the importance of Yoga in daily life. Create an illustrated "Eight Limbs of Yoga" wheel or infographic.	Awareness of holistic health, understanding of Yoga's role in well-being, communication skills. Knowledge of yogic philosophy, critical thinking, self-discipline, value education.

	3. Yogic Kriyas (Shat Karma) 4. Pranayama and its types. 5. Active Lifestyle and stress management through Yoga		- Identify the Asanas, Pranayama's, meditation, and yogic kriyas - Classify various yogic activities for the enhancement of concentration - Know about relaxation techniques for improving concentration	eight limbs of Astanga Yoga (Yama, Niyama, Asana, Pranayama, Pratyahara, Dharana, Dhyana, Samadhi); prepare presentations.	Create an illustrated "Eight Limbs of Yoga" wheel or infographic.	
JULY	Unit 10 Training & Doping in Sports 1. Concept and Principles of Sports Training 2. Training Load: Over Load, Adaptation, and Recovery 3. Warming-up & Limbering Down – Types, Method & Importance 4. Concept of Skill, Technique, Tactics & Strategies 5. Concept of Doping and its disadvantages	160 min	After completing the unit, the students will be able to: - Understand the concept and principles of sports training. - Summarise training load and its concept. - Understand the concept of warming up & limbering down in sports training and their types, method & importance. - Acquire the ability to differentiate between the skill, technique, tactics & strategies in sports training. - Interpret concept of doping. - Interpret concept of doping.	Discuss principles such as specificity, progression, overload, and reversibility; prepare case studies of athletes' training routines; conduct quizzes. Demonstrate different warm-up and cool-down exercises.	Design a flowchart or infographic illustrating the principles of sports training. Prepare illustrated charts showing various warm-up and cool-down activities.	Understanding of training concepts, analytical thinking, application of scientific principles in sports. Knowledge of fitness development, self-monitoring skills, injury prevention awareness.
AUG	Unit 2 Olympism Value Education 1. Olympism – Concept and Olympics Values (Excellence, Friendship & Respect)	200 min	After completing the unit, the students will be able to: - Incorporate values of Olympism in your life. - Differentiate between Modern and Ancient Olympic	Group discussion on Olympic values; quiz on Olympism; case study of Olympic athletes demonstrating values.	Create posters or slogans representing Excellence, Friendship, and Respect. Design Olympic flag, symbols, or creative	Understanding of ethical values, respect for diversity, value-based learning, communication skills. Moral development, sportsmanship, self-

	2. Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind 3. Ancient and Modern Olympics 4. Olympics - Symbols, Motto, Flag, Oath, and Anthem 5. Olympic Movement Structure - IOC, NOC, IFS, Other members		Games, Paralympics, and Special Olympic games • Identity the Olympic Symbol and Ideals • Describe the structure of the Olympic movement structure • To make students learn about the working and functioning of IOC, NOC and IFS, and other members.	Timeline activity comparing Ancient and Modern Olympics; presentation on history and evolution; worksheet-based assessment.	posters explaining their meaning. Design a “Value Wheel of Olympism”	discipline, emotional intelligence, decision-making skills.
SEP	UNIT-1 Changing Trends and Careers in Physical Education 1. Concept, Aims & Objectives of Physical Education 2. Development of Physical Education in India – Post Independence 3. Changing Trends in Sports- playing surface, wearable gear and sports equipment, technological advancements 4. Career options in Physical Education 5. Khelo-India Program and Fit – India Program	200 min	After completing the unit, the students will be able to: • Recognize the concept, aim, and objectives of Physical Education. • Identify the Postindependence development in Physical Education. • Categorize Changing Trends in Sports- playing surface, wearable gear, sports equipment, technological • Explore different career options in the field of Physical Education. • Make out the development of Khelo India and Fit India Program.	Classroom discussion on meaning and scope of Physical Education; prepare mind maps; short quiz or worksheet. Career counseling session; students prepare charts on career pathways (coach, physiotherapist, sports journalist, etc.).	Create posters showing “Aims of Physical Education” with illustrations of fitness activities. Make a historical timeline chart showing growth of Physical Education in India after independence.	Concept clarity, awareness of health and fitness goals, communication skills, analytical thinking. Career awareness, decision-making skills, goal setting, self-awareness.

OCT	Unit 7 Fundamentals of Anatomy, Physiology in Sports 1. Definition and importance of Anatomy and Physiology in Exercise and Sports. 2. Functions of Skeletal System, Classification of Bones, and Types of Joints. 3. Properties and Functions of Muscles. 4. Structure and Functions of Circulatory System and Heart. 5. Structure and Functions of Respiratory System.	200 min	After completing the unit, the students will be able to: • Identify the importance of anatomy and physiology. • Recognize the functions of the skeleton. • Understand the functions of bones and identify various types of joints. • Figure out the properties and functions of muscles and understand how they work. • Understand the anatomy of the respiratory system and describe it's working. • Identify and analyses the layout and functions of Circulatory System.	Classroom discussion on how anatomy & physiology help in sports performance; worksheet-based questions; short quiz. Demonstration of muscle contraction (flexion/extension activities); case study of muscle fatigue; fitness exercises like push-ups, squats to feel muscle action	Create a poster showing "Body systems in Sports Performance" with labeled diagrams. Draw and label the human skeleton showing types of bones and joints. Create a diagram showing major muscle groups and their functions.	Basic understanding of human body systems, scientific awareness, application in sports performance Awareness of muscular system, coordination, strength understanding, physical literacy.
NOV	Unit 8 Fundamentals Of Kinesiology and Biomechanics in Sports 1. Definition and Importance of Kinesiology and Biomechanics in Sports. 2. Principles of Biomechanics 3. Kinetics and Kinematics in Sports 4. Types of Body Movements - Flexion Extension, Abduction, Adduction, Rotation,	200 min	After completing the unit, the students will be able to: • Understand Kinesiology and Biomechanics with their application in sports. • Explain biomechanical principles and their utilization in sports and physical education. • Illustrate fundamental body movements and their basic patterns. • Learn about the Axis and Planes and their application with body movements.	Classroom discussion on how body movement science improves sports performance; worksheet; quiz; examples from sports videos. Compare motion (kinematics) and force (kinetics) using sports actions like throwing or kicking; worksheet exercises; video analysis.	Create posters showing "Human Movement in Sports" with labeled actions (running, jumping, throwing). Create a comparison table or infographic showing Kinetics vs Kinematics with diagrams.	Understanding of movement science, application in sports performance, scientific awareness. Concept clarity, observation skills, analytical reasoning, scientific understanding of motion.

	Circumduction, Supination & Pronation 5. Axis and Planes –		Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation 5. Axis and Planes – Concept and its application in body movements			
DEC	Unit 9 Psychology and Sports 1. Definition & Importance of Psychology in Physical Education & Sports; 2. Developmental Characteristics at Different Stages of Development; 3. Adolescent Problems & their Management; 4. Team Cohesion and Sports; 5. Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness	160 min	After completing the unit, the students will be able to: - Identify the role of Psychology in Physical Education and Sports - Differentiate characteristics of growth and development at different stages. - Explain the issues related to adolescent behavior and Team Cohesion in Sports - Correlate the psychological concepts with the sports and athlete specific situations	Classroom discussion on how psychology affects performance; case studies of athletes; short quiz/worksheet. Focus drills and concentration exercises; mindfulness/visualization practice; discussion on famous athletes' mental strength.	Create posters showing "Mind and Sports Performance" with examples of motivation and confidence. Create a "Team Cohesion Wheel" showing factors like trust, communication, and cooperation.	Understanding mental factors in sports, awareness of performance psychology, communication skills. Teamwork, leadership, cooperation, social skills, group dynamics understanding.
DEC	Unit 4 Physical Education and Sports for Children with Special Needs 1. Concept of Disability and Disorder 2. Types of Disability, its causes & nature	160 min	After completing the unit, the students will be able to: - Identify the concept of Disability and Disorder. - Outline types of disability and describe their causes and nature. - Adhere to and respect children with special needs by following etiquettes.	Classroom discussion on meaning and difference between disability and disorder; case study analysis; worksheet/quiz. Group presentation on different disabilities; video-	Create posters showing inclusive sports and "Respect for All Abilities". Make a comparative chart or collage showing intellectual vs physical disabilities with examples.	Awareness of inclusion, empathy, conceptual clarity about disability and disorder, communication skills. Understanding diversity, analytical thinking, inclusive mindset, observation skills.

	(Intellectual disability, Physical disability). 3. Disability Etiquette 4. Aim and objectives of Adaptive Physical Education. 5. Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist, and Special Educator)		• Identify possibilities and scope in adaptive physical education • Relate various types of professional support for children with special needs along with their roles and responsibilities.	based learning; identification activity using charts; discussion on accessibility in sports. Group activity assigning roles (Counselor, Physiotherap	Design posters or comics promoting respectful communication and inclusive behavior. Make a "Support System Chart"	Social sensitivity, empathy, respectful communication, ethical behavior, inclusion awareness.
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NAME OF INCHARGE TEACHERS: ASHOK VISHWAKARMA , ANAMIKA SINGH

SIGNATURE OF SUBJECT CORDINATOR: _____

SIGNATURE OF PRINCIPAL:

CARMEL CONVENT SR SEC SCHOOL, RATANPUR, YEAR PLANNER:

2026-27

CLASS: XI

SUBJECT: BIOLOGY

Month	Name of the Unit / Chapter/Topic	Time for each unit	Learning Outcomes	Art Integrated Activity / Project	Practicals	Key Competencies to be Achieved
APRIL	The Living World Biological Classification Plant Kingdom	30hrs	knowledge, understanding, application, skills Salient features and classification of plants into major groups	Poster making: Clay models / collage: Protists and Fungi	Study and describe locally available common flowering plants. Parts of a compound microscope Specimens/slides/models	Understanding classification; appreciating biodiversity Observation skills; classification ability
JUNE	Animal Kingdom Morphology of Flowering Plants	20 hrs	Understand problems associated with classification of organisms. describe different types of flowers.	Mask making	Preparation and study of T.S. of dicot and monocot roots and stems	Integration of structure and function; fine motor skills
JULY	Anatomy of Flowering Plants Structural Organisation in Animals	20hrs	Understand and differentiate between meristematic and permanent tissues. Structure & function of frog	Flower dissection botanical illustration (sketching & labeling)	Virtual specimens/slides/models. by potato osmometer plasmolysis	Observation, lab skills; structure-function understanding Visual representation
AUGUST	Cell: The Unit of Life Biomolecules Cell Cycle and Cell Division	27 hrs	understand the structure of carbohydrates, proteins, nucleic acid enzymes and catalytic activity.	Role-play or skit: Mitosis and Meiosis	types of inflorescence. distribution of stomata	Logical linking; aesthetic sense Interdisciplinary thinking (biology + art)
SEPTEMBER	REVISION Half yearly exams	3 hrs	critical thinking and problem solving, assertion –reasoning and case study solving ability			
OCTOBER	Breathing and Exchange of Gases. Body Fluids and Circulation Photosynthesis in Higher Plants	20hrs	All the components of human circulatory system Differentiate between C3 and C4 cycle Mechanism of chemiosmosis for ATP synthesis	Blood component art using sand/rangoli or craft Poster Artistic concept maps or video	Mitosis in onion root tip cells	Teamwork; process visualization Timeline creation; hormonal coordination understanding

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SUBJECT: BIOLOGY

				explanations		
NOVEMBER	Excretory Products and their Elimination Locomotion and Movement Respiration in Plants	20hrs	All the types of movement Mechanism of muscle contraction Mechanism of glycolysis and Krebs's cycle	Group mural: Cellular respiration pathway Growth timeline chart with artistic representation of hormones	Test for the presence of sugar, starch, proteins and fats	Integration of biology and narrative art Application of scientific knowledge
DECEMBER	Neural Control and Coordination. Chemical Coordination and Integration Plant Growth and Development	13hrs	Mechanism of generation and conduction of nerve impulse plant growth and physiological activity of plant hormones during its development	Growth timeline chart with artistic representation of hormones	REVISION OF SPOTTING	Visualization; knowledge of body systems Summarization and model interpretation Holistic review; creative consolidation of learning
JANUARY	FINAL PRACTICAL EXAM					
FEBRUARY	REVISION FINAL EXAM					

Dr.NEERU THAKUR

NAME OF INCHARGE TEACHERS: Dr.NEERU THAKUR

Mrs. SHAMPA MAITRA

SIGNATURE OF SUBJECT CORDINATOR:

SIGNATURE OF PRINCIPAL:

CARMEL CONVENT SR. SEC. SCHOOL, RATANPUR, BHOPAL

YEAR PLANNER 2026–27

CLASS: XI

SUBJECT: CHEMISTRY

MONTH	NAME OF THE UNIT / CHAPTER AND SUB- TOPICS	TIME ALLOTTED FOR EACH UNIT	LEARNING OUTCOMES	ART- INTEGRATED ACTIVITY / ART-INTEGRATED PROJECT	PRACTICALS	KEY COMPETENCIES TO BE ACHIEVED
April-June	1. Some Basic Concepts of Chemistry -Importance of chemistry -Laws of chemical combination -Mole concept and molar mass – Stoichiometry	14 Hours	Understands basic chemical laws and mole concept	Worksheet	Titration-1 (June)	Critical thinking, Numeracy, Problem- solving
	2. Structure of Atom orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled	8 Hours	Understand the structure of an atom and orbitals. Explain quantum numbers and their significance. Identify the shapes of s, p, and d orbitals. Apply Aufbau Principle, Pauli Exclusion Principle, and Hund's Rule. Write electronic	Model of atomic orbitals using clay or paper craft		Scientific inquiry, analytical thinking, problem-solving, and application of electronic configuration concepts.

August	CHAPTER:-2 Structure of Atom (contd.) Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle	10 Hours	Illustrate the concept of shells and subshells in an atom based on the Bohr-Bury scheme. Understand the dual nature of matter and radiation and explain de Broglie's hypothesis. Analyze how modern atomic theory evolved from classical models through experimental evidence.	Poster Making: "Dual Nature of Matter & Light"	5. Salt Analysis- Acid and Basic Radicals	Scientific Inquiry and Reasoning, Analytical Thinking, Conceptual Understanding and application
	4. Chemical Bonding and Molecular Structure (contd.) -Hybridisation -Molecular orbital Theory	7 Hours	Predicts the type of hybridisation	Draw the Molecular orbital diagram		Predictive ability, Conceptual learning
	7. Redox Reactions – Oxidation and reduction – Redox reactions in terms of electron	8 Hours	Identifies redox changes in reactions	Balancing of redox reactions		Deductive reasoning, Analytical skill

	Transfer -Balancing methods					
	8. Chemistry: Some Basic Principles and Techniques – Nomenclature	8 Hours	Understands basics of organic reactions and mechanisms	Worksheet on nomenclature		Conceptual clarity, Naming conventions
September	TERM-1 EXAM SYLLABUS – 1,2,3,4,7,8 Practical exam- Titration & salt analysis					
September - October	5. Thermodynamics -Concepts of system and surroundings -First law of thermodynamics - Enthalpy Changes -Entropy -Gibbs energy -Spontaneity	18 Hours	Understands energy changes in chemical processes	Worksheet	Salt Analysis	Data analysis, Energy conservation awareness
	8. Chemistry: Some Basic Principles and Techniques(contd)- -Electronic effects -Types of organic Reactions Purification	14 Hours	Understands and gets knowledge about different purification methods. Understand electronic effects and classify different types of organic reactions.	Flowchart on different purification methods		Analytical thinking, reaction interpretation, problem-solving, and application of organic chemistry concepts.

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

CLASS :XI AB Name of the Subject : Physics (Subject code: 042) Part -1						
Month	Name of the Unit / Topics	Time Allotted for each unit	Learning Outcomes	Art Integrated Activity/ Project	Practicals	Key Competencies to be Achieved
APRIL, JUNE-JULY (18)	Kinematics Motion in a straight Line: Frame of reference, Motion in a straight line. Elementary concepts of differentiation and integration for describing motion. Uniform and nonuniform Motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity time and position-time graphs. Relations for uniformly accelerated motion (graphical and Calculus treatment).	18(12h)	Students will be able to— *understand Frame of reference *discuss motion in a straight line *Plot Position-time graph, speed and velocity.velocity - time and position-time graphs. *understand elementary concepts of differentiation and integration for describing motion. *differentiate Uniform and nonuniform Motion, average speed and instantaneous velocity. understand uniformly accelerated motion *derive relations for uniformly accelerated motion (graphical treatment).	Activity : 1) Make a flow chart of types of motion.	EXP: 1) To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	Understanding and applying concepts like Speed, velocity, uniform and non uniform motions and analysis of different graphs like x-t, v-t, a-t and ability to solve problems related to these concepts. Students will achieve Core and functional competency.
JULY (06) PT -1	Motion in a plane Scalar and vector quantities; Position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of Vectors. Unit vector; Resolution of a vector in a plane - rectangular components. Scalar And Vector product of vectors. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.	6(4h)	Students will be able to— * Understand scalar and vector quantities; Position and displacement vectors, general vectors and their notations, unit vector, zero vector equality of vectors *Do multiplication of vectors by a real number; addition and subtraction of Vectors. *understand relative velocity. * resolve a vector in a plane - rectangular components. * Do Scalar and Vector product of vectors. *understand Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. *understand Uniform circular motion.	Activity: 1) Check the Change in direction of total velocity of an object at different points on trajectory.	EXP: 2) To measure diameter of a given wire and thickness of a given sheet using screw gauge	Understanding and applying vector algebra, analyzing projectile motion and comprehending uniform circular motion, manipulating vectors and decision making in learners. Students should be able to resolve vectors, add and subtract them and apply these concepts to describe motion in 2-D. the goal of this chapter is to equip students with the tools to analyze and describe the motion of objects in 2-D, focusing on applications of vectors and specific types of motion like projectile and circular motion.
AUGUST (14)	Laws of Motion Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces .	14(9.3h)	Students will be able to— *understand intuitive concept of force. Inertia, *explain Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. *discuss law of conservation of linear momentum and its applications. * understand equilibrium of concurrent forces.	Activities: 1) Activities based on Newton's laws of motion-- 1st law -using card, coin and glass, 2nd law - heavier and lighter balls falling on sand, 3rd law - activity with two straw 2) Activity showing impulse momentum theorem (put a sand slowly and then through stone on sand- impressions are different.	EXP: 3) To find the weight of a given body using parallelogram law of vectors.	Understanding and applying Newton's Laws to explain the motion of objects. Grasping concepts like Inertia, force Acceleration and relation between them, Understanding momentum, impulse and friction. Students should be able to understand scenarios, identify forces involved and apply appropriate law to predict the resulting motion in elevators and free body diagrams
SEPTEMBER (14)	Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a Level circular road, vehicle on banked road).	4(2.6h)	Students will be able to— differentiate static and kinetic friction, *prove laws of friction, rolling friction, *understand dynamics of uniform circular motion *understand the concept of centripetal force and they will discuss examples of circular motion (vehicle on a Level circular road, vehicle on banked road).	Activity: 1) Examples showing direction of centripetal and centrifugal force.	EXP: 4) To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface.	Understanding friction Laws of friction. Students should be able to understand scenarios, problems solving related to Circular motion and vehicle on circular road.

OCTOBER (14)	Work, Energy and Power Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces, non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.	14(9.33h)	Students will be able to— *derive work done by a constant force and a variable force *define kinetic energy *derive work-energy theorem, power. *Notion of potential energy, potential energy of a spring, conservative forces: non-conservative forces: *understand motion in a vertical circle *understand elastic and inelastic collisions in one and two dimensions.	Activities: 1) Activity to show total energy of a system remains constant throughout the motion.		Understanding the functional concepts of work energy and power, applying the work energy theorem, grasping the principle of conservation of energy and understanding the different types of collisions (elastic and inelastic), this competencies involve both theoretical understanding and practical application of these concepts to solve problems involving motion forces and collisions
NOVEMBER (18) PT -2	Motion of System of Particles and Rigid Body Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, laws of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects (no derivation).	18(12h)	Students will be able to— *understand centre of mass of a two-particle system, *understand momentum conservation and centre of mass motion. *discuss Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum *understand laws of conservation of angular momentum and its applications. *understand the concept of equilibrium of rigid bodies, rigid body rotation and equations of rotational motion *compare of linear and rotational motions. *understand the moment of inertia, radius of gyration. *derive values of moments of inertia, for simple geometrical objects (no derivation).	Activities: 1) Virtual lab activity: Find out the values torque, moment of inertia and angular momentum for the following values of angular velocities= 1,2,2,3for positions 1,2,3,4 2) Balancing of scale to explain torque concept. 3) Balancing of scale on fingers to explain concept of centre of mass.	Act (1). To make a paper scale of given least count, e.g., 0.2,0.5cm Act (2). To measure the force of limiting friction for rolling of a roller on a horizontal plane. Act (3). To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).	Understanding and applying concepts related to the motion of system of particles and rigid bodies including their rotational dynamics. this chapter builds on previous concepts of linear motion and introduce new ones like the centre of mass torque, angular momentum and moment of inertia. analysing rotational dynamics, understanding the concept of rigid body, solving problems involving rotational and translation motion, applying theorems of perpendicular and parallel axes.
DECEMBER (12)	Gravitation Kepler's laws of planetary motion, Universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential. Escape velocity. Orbital velocity of a Satellite, energy of an orbiting satellite.	12(8h)	Students will be able to — Discuss Kepler's laws of planetary motion *State Universal law of gravitation. *derive acceleration due to gravity and its variation with altitude and depth. *understand gravitational potential energy and gravitational potential. *define and derive expression of escape velocity and Orbital velocity of a Satellite.			Understanding the universal law of gravitation which explains the force of attraction between any two bodies and Kepler's laws of planetary motion which describe the movement of planets in solar system. Additionally students should be able to apply these principles to understand gravitational potential energy gravitational potential, escape velocity and orbital motion, ability to calculate escape velocity for different celestial bodies and understand its implications for space travel. ability to analyse the motion of satellite calculate their orbital speed and period.

JANUARY TERM-2 EXAM.

NAME OF INCHARGE TEACHER: ARCHANA TALELE

SIGNATURE OF THE PRINCIPAL:

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

CLASS : XI

SUBJECT: PHYSICS PART 2

MONT H	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLO TTED FOR EACH UNIT	LEARNING OUTCOMES	ART INTEGRATED ACTIVITY/PROJECT	PRACTICALS	KEY COMPETENCIES TO BE ACHIEVED
JUNE	UNITS & MEASUREMENT : Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications.	8	Enumerates the International system of base and supplementary units. Estimates precise experimental results using significant figures and rounding off the final results. Identifies and applies the concept of dimensions, dimensional formulae and dimensional analysis techniques to write, validate and derive correct physical equations. Identifies and applies the concept of dimensions, dimensional formulae and dimensional analysis techniques to write, validate and derive correct physical equations.	1) Compare different instruments (like vernier calipers, screw gauge, measuring tape, meter scale) for measuring the same quantity and analyze accuracy and precision.		By the end of this chapter, the learner is able to understand and list the base and supplementary units of the International System of Units (SI). They can estimate and express experimental results accurately using significant figures and apply rules for rounding off. The learner can also identify physical quantities with their correct dimensions and dimensional formulae. They are able to use the technique of dimensional analysis to derive, verify, and validate various physical equations, ensuring their correctness and consistency.
JULY PT1(U NITS	ELASTICITY : Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus,		Differentiates between rigid, elastic and plastic bodies. Explains elastic	To determine the elastic potential energy stored in a	EXP)To find the force constant of a helical spring by plotting a	At the end of this chapter, the student understands the

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&MEASUREMENT)	shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.		behaviour in solids. 0.Describes and explains different types of stresses and corresponding strains produced in a body. Describes elastic moduli of various bodies with different materials, elastic behaviours and shape. Explains and derives elastic potential energy stored in a stretched wire	stretched wire and relate it to work done in stretching.	graph between load and extension.	mechanical properties of solids and how they respond to external forces. They can differentiate between rigid, elastic, and plastic bodies based on their ability to regain shape after deformation. The student is able to explain the elastic behavior of solids using stress-strain relationships and describe different types of stress (like tensile, compressive, and shear) and the corresponding strains they produce. They gain knowledge about elastic moduli such as Young's modulus, bulk modulus, and shear modulus, and how these vary for different materials and shapes. Additionally, they can explain and derive the formula for elastic potential energy stored in a stretched wire, connecting physical deformation with energy storage.
AUGUST	MECHANICAL PROPERTIES OF MATTER: Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline	20.4	Defines fluids and explains pressure experienced in fluids. Explains the effect of gravity on fluid pressure. Describes and explains hydraulic machines based on Pascal's law. Explains	3)Hydraulic Lift Model (Pascal's Law): 4)Bernoulli's Theorem: 5) Surface Tension Demonstration	EXP)To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. ACT)To study the effect	By the end of this chapter, the student understands the basic properties and behavior of fluids. They can define fluids and explain how pressure is exerted in all directions within a fluid,

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	and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise. TERM 1		the properties, laws and mathematical equations followed during fluid flow. Explains the viscosity of fluids in terms of fluid friction. Explains surface tension as surface property of liquids only.		of detergent on surface tension of water by observing capillary rise. . ACT)To note the change in level of liquid in a container on heating and interpret the observations.	and how gravity affects fluid pressure with depth. The student is able to describe hydraulic machines and explain their working based on Pascal's law. They also learn about fluid flow, understanding the laws and mathematical equations like Bernoulli's principle that govern it. Additionally, they can explain viscosity as the internal friction within fluids and how it affects motion. The student also understands surface tension as a unique surface property of liquids that leads to various observable effects.
SEPTEMBER Term 1(UNIT 5 & MEASUREMENT, MECHANICAL PROPERTIES OF MATTER)	THERMAL PROPERTIES OF MATTER: Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's law of displacement Law, Stefan's law		Explains and differentiates between heat and temperature of a body. Explains thermal expansion in substances and identifies linear, superficial and cubical expansions. Defines heat capacity and specific heat capacity of a substance and states its importance in amount of heat exchanged by a body to change its temperature. Explains the process of change of state and describes the heat	6)Investigating Thermal Expansion in Solids. 7)Specific Heat Capacity by Method of Mixtures	ACT)To observe and explain the effect of heating on a bi-metallic strip.	At the end of this chapter, the student gains a clear understanding of the difference between heat and temperature. They can explain how heat is a form of energy transfer, while temperature measures the average kinetic energy of particles in a substance. The student also learns about thermal expansion and can identify and differentiate between linear, superficial, and cubical expansions in different materials. They understand the

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	.		exchanges during the process. explains the mechanisms of heat transfers from one body to another through conduction, convection and radiation .			concepts of heat capacity and specific heat capacity, recognizing their importance in determining the amount of heat required to change a substance's temperature. Additionally, the student is able to explain the process of change of state (such as melting, freezing, and boiling) and describe the heat involved in these transformations.
OCTO BER	Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. THERMODYNAMICS First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state - isothermal, adiabatic, reversible, irreversible, and cyclic processes Equation of state of a perfect gas, work done in compressing a gas. KINETIC THEORY OF GASES - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi - partition of energy (statement only) and	10	States and explains Zeroth law of thermodynamics. Describes and explains the three important thermodynamic variables as heat, internal energy and work done.States and explains first law of thermodynamics. Describes and explains specific heat capacity and molar specific heat of matter .States and explains second law of thermodynamics. s postulates and describes the properties of different states of matter. postulates and describes the properties of different states of matter. States kinetic theory of gases and			At the end of this chapter, the student gains a solid understanding of the fundamental concepts in thermodynamics. They can state and explain the Zeroth, First, and Second Laws of Thermodynamics, and understand how heat, internal energy, and work are interrelated in thermodynamic processes. The student is able to describe and explain specific heat capacity and molar specific heat, and understand their significance in different materials. They also comprehend the postulates and properties of different states of matter and how gases behave according to the kinetic theory,

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	application to specific heat capacities of gases; concept of mean free path, Avogadro's number. concept of mean free path , Avogadro's number.	6	uses the theory to explain the pressure exerted by gas molecules and its temperature. .States and explains the law of equipartition of energies for gas molecules with varying degrees of freedom. Defines mean free path of gas molecules based on kinetic theory of gases.			including how gas pressure and temperature are related. Additionally, the student learns the law of equipartition of energy and how it applies to gas molecules with different degrees of freedom, and defines the mean free path based on the kinetic theory of gases. This chapter equips the student with a comprehensive understanding of the behavior of energy and matter in various states.
NOVEMBER PT2(THERMODYNAMICS)	SIMPLE HARMONIC MOTION: Time period, frequency, displacement as a function of time, periodic functions and their application. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring-restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.	22	Describes periodic and oscillatory motion using common examples and states suitable equations of motion. States the equations governing the displacement, velocity and acceleration of a body in simple harmonic motion. Explains the energy and the force law of the body in SHM. identifies few examples of bodies in SHM and derives their equations of motion and time period	8)Study of Oscillations in a Simple Pendulum and Verification of the Time Period Formula of SHM"		At the end of this chapter, the student gains a clear understanding of periodic and oscillatory motion, recognizing common examples like a swinging pendulum or a vibrating spring. They are able to state and explain the equations of motion governing displacement, velocity, and acceleration for a body in Simple Harmonic Motion (SHM). The student also learns the concepts of energy in SHM, including potential and kinetic energy variations, and understands the force law (restoring force proportional to displacement). Additionally, they can identify examples of SHM, derive their

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						equations of motion, and calculate the time period of oscillation, connecting theoretical concepts with real-world applications.
DECEMBER	WAVES: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.		Describes the concept of wave motion with examples. Explains the characteristics of transverse and longitudinal wave motions with examples. States the principle of superposition of mechanical waves and derives the equations of resultant wave. Describes the reflection of progressive waves from rigid and non rigid boundaries. Defines and explains standing waves produced due to reflection of waves by two boundaries. Demonstrates and explains the formation of beats due to superposition of sound waves of slightly different frequencies.	Formation and Analysis of Standing Waves in a Stretched String"	EXP)To study the relation between frequency and length of a given wire under constant tension using Sonometer. EXP)To find the speed of sound in air at room temperature using a resonance tube by two resonance positions	At the end of this chapter, the student has a clear understanding of wave motion and its types. They can describe the concept of wave motion and provide examples, such as sound and water waves. The student can explain the differences between transverse and longitudinal waves, with examples like waves on a string (transverse) and sound waves in air (longitudinal). They understand the principle of superposition of mechanical waves and can derive equations for the resultant wave. The student also grasps how progressive waves reflect from rigid and non-rigid boundaries. They can define standing waves, explain their formation due to reflections from two boundaries, and demonstrate the formation of beats when two sound waves of slightly different frequencies interfere

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JANUA RY	FULL SYLLABUS					TERM 2
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NAME OF INCHARGE TEACHER:

SIGNATURE OF PRINCIPAL:

MONT H	NAME OF THE UNIT/CHAPTER AND SUB TOPICS	TIME ALL OTTED FOR EACH UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ASSESSMENT/ PRACTICALS	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	Unit 1: COMPUTER SYSTEM OVERVIEW - Data Representation Programming and Computational Thinking : Familiarization with the basics of programming i.e. process of writing a program, running it and print statements. The notion of a variable and methods to manipulate it. Knowledge of data-types and operators: accepting input from the console, assignments, expressions and their procedures Conditional statements : if, if- else, if-elif-else Idea of debugging: errors and exceptions: break points Data representation Conversions from among the Four number systems	10	Intellectual Skills: learners must be able To understand the concept of computer organization in depth and acquire the highest learning outcomes. Gaining knowledge of the basic layout and flow of data concept	Interest calculation, sort 3 numbers, divisibility, factorials	Identifying different hardware parts of the system and also use of various softwares including operating systems.	When would you prefer nested if/else statements over elif?
JUNE JULY	List manipulation: - Creating and accessing - List operations - Working with lists - List functions and Methods Tuples - Creating and accessing tuples	10	Both List and Tuple is sequential arrangement of data. Student understand show to use less variables and process more data.	Find the output of the code based on list and tuples which is given?	In a tabular form arranging the functions and methods of list and tuples. This gives a clear picture of difference between the two.	Why are tuples and lists called immutable and mutable data types in Python?

	• Tuple operations • Tuple function and methods		Learning outcome is : to assign multiple values to a single variable and to keep it safe as tuple is immutable			
August	Dictionaries • Dictionary:-key:value pair • Working with dictionaries • Dictionary functions and methods Boolean Logic: • Binary valued quantities • Basic logic gates • Basic postualtes • Principle of duality • Basic theorems of Boolean Algebra • De Morgan's theorem • Simplifying a Boolean expression • More about Logic gates	30	Learning outcome is...without using index Number show to access values using a key....thus handling data which is randomly arranged. Learning outcome is the processing of data intheformof0and1.Workingofelectronic circuitboards.	How dictionary is relevant to the real world? How do you add key:value pair to an existing dictionary? TERM-1	How does it get Differentiated with Lists and tuples	Recognize a dictionary as a key-value pair data structure
September	String Manipulation: • Traversing a string • String operators • String slices • String functions and methods • Data Management • Relational Databases • Simple queries in SQL • MYSQL functions • Table creation and data manipulation commands • Table Joins and Indexes in SQL • Basics of NOSQL Database	20	Think & act“out of the box” *Project work: problemsrelatedto String,Numbermanipulation*Memory Game:Anumberguessinggamewith appli cation containing randomly generated numbers in pairs hidden insideboxes.(similartypeofgamesfor project inagroup of2-4students)*	How are string internallystored ? Canastringvalue be edited? How and what are different terminologies usedinMySQL?	Programming ProblemInPython to be developed andtested in computer during labactivityperiod: * Testing on the basis of : Logic,Documentati on/Identationand Output presentation Creating multiple databases	Ability to create access, update, and delete elements from a data structure And string manipulation

October	- Databases in MySQL - Creating tables Understanding sorting: - What is sorting - Bubble sort - Insertion Sort Cyber Safety : - What is Cyber Safety ? - Safely browsing the web - Identity Protection while using internet - Confidentiality of Information - Cybercrime - Common Social networking sites - Appropriate usage of Social networks	20	Student learn how to make presentation based on research: It will be a group presentation based on a detailed study of at least two technology inventions in the field of information technology, which may include Inventor's name with country, out of box contributions year of invention, characteristics, social impact and uses.	How is SELECT different from print of Python?	Using List and implementing different Sorting techniques What makes your online identity? What is private browsing?	When would you prefer nested <code>if/else</code> statements over <code>elif</code> ?
November	Online Access and Computer Security - Threats to Computer Security - Computer viruses - Spyware - adware - spamming - PC Intrusion - Eavesdropping - Phishing and Pharming - Cookies	5	Students learning outcome will be motor skill development which deals with improving a student's ability to plan & take appropriate action in terms of their physicality. They must work towards their Mental health & social presence.	What is Digital Foot print? Explain: Cyber Bullying Cyber Stalking What you should do – the Usage Rules of Internet	Project: ART Integrated Workbook with minimum 20 programs	Society law and ethics and etiquettes of how to safely browse the network
December	- Solutions to Computer Security Threats - Solutions to Spyware, Adware and Viruses - Solutions to spam, Eavesdropping - Solution to PC intrusion	5	Students must be able to gather and pass on valuable information to others. So, in this learning outcome, students are supposed to create a value system of	What should your response be if you receive an email stating that you have won a lottery or	Presentation on: - firewall - Cookies - Strong Password - Phishing	.Understanding the online threats and frauds and learning to protect data.

	Firewall–Animportant SolutionforComputer Security		knowledgebyfirstgainingit&then sharing it with the world.	received some inhertancefrom an unknown person?	Spyware	
January	FULL SYLLABUS				FINAL EXAM	

NAME OF INCHARGE TEACHERS: Lata Iyer

SIGNATURE OF SUBJECT CORDINATOR: Lata Iyer

SIGNATURE OF PRINCIPAL:

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

CLASS XI

SUBJECT : MATHEMATICS (041)

Month	Name of the Unit with Content	Time Allotted (in Hours)	Learning Outcomes	Art integrated Activity	Suggested Activities/ Assessment/Practical	Key Competencies to be Achieved
APR	Unit-I: Sets and Functions 1. Sets : Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.	8 hrs	Students understand types of sets, operations, intervals and Venn diagrams and apply them in real-life classification	Ppt on operations on sets.	Representation of sets using Venn diagrams	Logical reasoning, classification, analytical thinking
JUN	2. Relations & Functions Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (up to $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued	8 hrs	Students define relations/functions, identify domain, range, and interpret graphical representations		Distinguish between relation and function	Conceptual clarity, representation, mapping skills

	functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.					
JUN	3. Trigonometric Functions Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing identities.	16 hrs	Students apply identities, understand unit circle, graphs and solve trigonometric equations			Visualization, algebraic manipulation, problem-solving
JULY	Unit-II: Algebra 4. Complex Numbers and Quadratic Equations Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.	9 hrs	Students understand imaginary numbers, Argand plane and solve quadratic equations		PT1 SYLLABUS: Chap 1,2 and 3 (Sets, Relations and Functions and Trigonometric functions)	Critical thinking, algebraic reasoning

JULY	5. Linear Inequalities Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.	10 hrs	Students solve inequalities and represent solutions graphically		Graphical solution of linear inequalities	Analytical reasoning, graphical interpretation
JULY	6. Permutations and Combinations Fundamental principle of counting. Factorial n . $(n!)$ Permutations and combinations, derivation of Formulae for nPr , nCr and their connections, simple applications.	12 hrs	Students apply counting principles and solve arrangement problems			Logical thinking, combinatorial reasoning
AUG	7. Binomial Theorem Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.	6 hrs	Students expand expressions and identify patterns using binomial theorem			Pattern recognition, algebraic expansion
AUG	8. Sequence and Series Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M	15 hrs	Students understand AP, GP and solve real-life progression problems		Relation between AM and GM	Numerical ability, pattern analysis

AUG	Unit-III: Coordinate Geometry 9. Straight Lines Brief recall of two-dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form. Distance of a point from a line.	15 hrs	Students understand slope, equations of lines and distance concepts			Spatial thinking, analytical skills
SEP	10. Conic Sections Sections of a cone: circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.	10 hrs	Students understand parabola, ellipse, hyperbola and their properties		TERM 1 Syllabus: Ch 1, 2, 3, 4, 5, 6, 7, 8 and 9	
SEP	11. Introduction to Three-dimensional Geometry Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points.	9 hrs	Students understand 3D coordinate system and distance between points			Spatial visualization, application skills
OCT	Unit-IV: Calculus 12. Limits and Derivatives Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit.	15 hrs	Students understand limits, rate of change and basic differentiation		Analysis of limit of a function	Analytical thinking, conceptual understanding

	Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions of polynomial and trigonometric functions.					
NOV	Unit-V Statistics and Probability 13. Statistics Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.	12 hrs	Students calculate dispersion measures and interpret data			Data interpretation, numerical analysis
DEC	14. Probability Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.	15 hrs	Students understand events and calculate probabilities using set theory		PT II SYLLABUS: Chapter 10 and 11	Logical reasoning, decision-making
JAN	Revision & Annual Examination		Evaluate comprehensive understanding of the syllabus			Overall competency in Class XI curriculum

NAME OF THE INCHARGE TEACHERS: MRS. ANAMIKA CHUGH

SIGNATURE OF THE PRINCIPAL

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MONT H	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALL OTT ED	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/ASSESSMENT/P RACTICAL	ART INTEGRATED ACTIVITY	KEY COMPETENCIES
APRIL	गद्य: नमक का दरोगा	5	विद्यार्थी कहानी की घटनाओं को समाज की वर्तमान स्थिति से जोड़कर स्पष्ट कर सकेंगे।	प्रेमचंद जी द्वारा रचित अन्य कहानियों को पढ़कर तुलनात्मक अध्ययन कीजिए।	कहानी में वर्णित नैतिक मूल्यों को उदाहरण देकर स्पष्ट कीजिए। कहानी में घटित किसी प्रसंग विशेष को लघु नाटिका के रूप में प्रस्तुत कीजिए।	नवाचार , टीम वर्क , सहयोग
	अभिव्यक्ति और माध्यम: *जनसंचार माध्यम *पत्रकारिता के विभिन्न आयाम	10	विद्यार्थी संचार तथा पत्रकारिता के विविध प्रकारों को समझ कर दैनिक जीवन से संबंध स्थापित कर सकेंगे।	पत्रकारिता की कार्यशैली एवं समाज में इसकी भूमिका पर विस्तृत चर्चा कीजिए।	इंटरनेट पत्रकारिता ने दुनिया को किस प्रकार समेट लिया है, पीपीटी के माध्यम से समझाइए।	मीडिया और इंटरनेट साक्षरता कंप्यूटर प्रोग्रामिंग
JUNE	गद्य: मियां नसीरुद्दीन	5	विद्यार्थी हिंदी के साथ-साथ अन्य भाषाओं को भी सीखने का प्रयास करते हुए उनकी प्रकृति और अंतर्संबंधों के प्रति जागरूक बन सकेंगे।	साथियों के मध्य अपनी रुचियों को साझा कीजिए।	पाठ में प्रयुक्त प्रादेशिक एवं विदेशी शब्दों का चयन कर उनके स्रोत बताइए। किसी क्षेत्रीय कलाकार का साक्षात्कार लेते हुए कला विशेष के विषय में विस्तृत जानकारी दीजिए।	कलात्मक अभिरुचि एवं भाषा कौशल का विकास
	पद्य: कबीर	6	कविता के गठन और संरचना में आवश्यक तत्व, छंद के प्रकार और नियमों को समझ सकेंगे।	कबीर के पदों को स्वेच्छानुसार लय में ढालकर कक्षा में सुनाइए।	भक्ति काल के प्रमुख कवियों के नाम और उनकी रचनाओं का उल्लेख कीजिए। कबीर के पदों को लयबद्ध कर कक्षा में सुनाइए।	जिज्ञासा संगीतिक अभिरुचि
	अभिव्यक्ति और माध्यम:	8	विद्यार्थी डायरी लेखन विद्या के माध्यम से अपनी स्मृतियों को सहेज सकेंगे।	ग्रीष्मावकाश की अपनी यात्रा को डायरी शैली में लिखिए।	पटकथा लिखते समय किन-किन बातों का ध्यान रखना आवश्यक है?	प्रत्यास्मरण एवं रचनात्मकता

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	*डायरी लेखन, *कथा-पटकथा					
JULY	गद्य: विदाई संभाषण	5	व्यंग्यात्मक भाषा-शैली के प्रयोग को समझते हुए लघु कथा अथवा कविता का लेखन कर सकेंगे।	व्यंग्यकार हरिशंकर परसाई जी के विषय में जानकारी साझा कीजिए।	वर्तमान हालात को चित्रित करती हास्य-व्यंग्य शैली में एक कहानी लिखिए।	सृजनशीलता एवं कल्पनाशीलता
	पद्य:*मीरा के पद(प्रथम पद)	5	कविता पढ़कर उसके शब्द-चित्रण में सक्षम हो सकेंगे।	भक्तिकालीन कवियों के बारे में जानकारी एकत्र कीजिए।	मीरा के पदों का काव्य-सौंदर्य स्पष्ट कीजिए।	भाषायी अभिरुचि
	PT-1 13/7/2026		प्रथम त्रैमासिक परीक्षा		प्रथम त्रैमासिक परीक्षा	
	*घर की याद	6	स्वतंत्रता सेनानियों की मानसिक पीड़ा से अवगत हो सकेंगे	स्वाधीनता आंदोलन से जुड़े सेनानियों की गाथाएं पढ़िए।	क्या कभी ऐसा हुआ है कि आपको किसी कारणवश घर से दूर रहना पड़ा हो?अपने अनुभवों को कक्षा में मित्रों के साथ साझा कीजिए।	मौखिक संचार एवं श्रवण कौशल
	अभिव्यक्ति और माध्यम: *कार्यालयी लेखन और प्रक्रिया *स्ववृत्त लेखन और रोजगार संबंधी आवेदन पत्र	8	कार्यालयी लेखन की कला सीख कर अपने व्यावहारिक जीवन में उसका उपयोग कर सकेंगे।	किसी बैठक के लिए कार्य सूची और कार्यवृत्त लिखिए।	विद्यालय की किसी विशेष बैठक के अवसर पर कार्य-सूची एवं कार्य-वृत्त तैयार कीजिए।	आत्म-निर्देशन, कार्य-योजना, आत्म-अनुशासन एवं दृढ़ता
AUGU ST	पद्य : चंपा काले काले अक्षर नहीं चीन्हती	5	शिक्षा के महत्व को समझते हुए समाज में शिक्षा के प्रचार-प्रसार में सहायक बन सकेंगे।	देश में साक्षरता के आंकड़ों का प्रदेश स्तर पर संग्रह कर तुलनात्मक विवेचना कीजिए।	अपने किसी निकटवर्ती गांव में जाकर साक्षरता के आंकड़े एकत्र कीजिए और बताइए कि सरकार के द्वारा साक्षरता के प्रसार हेतु कौन-कौन-सी सुविधाएं प्रदान की गई हैं? समाज में व्याप्त ऐसी ही किसी	डेटा व्याख्या और विश्लेषण सांस्कृतिक साक्षरता एवं नवाचार

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	वितान : भारतीय गायिकाओं में बेजोड़-लता मंगेशकर	10	सुगम संगीत एवं शास्त्रीय संगीत के अंतर को समझ सकेंगे। सतत अभ्यास के महत्व को समझेंगे।	लताजी के जीवन से जुड़े प्रसंगों को साथियों के साथ साझा कीजिए।	समस्या पर नक्कड़ नाटक कीजिए। 'स्वप्न में लता जी से मेरी मुलाकात' विषय पर एक अनुच्छेद लिखिए। आपके प्रिय गायक अथवा गायिका के जीवनके विशिष्ट अवसरों पर आधारित एल्बम तैयार कीजिए।	जिज्ञासा एवं सृजनशीलता
	अभिव्यक्ति और माध्यम: *शब्दकोश, संदर्भ ग्रंथ की उपयोगी विधि और परिचय *रचनात्मक लेखन	4	विद्यार्थी शब्दकोश एवं संदर्भ ग्रंथ के माध्यम से अपने भाषा ज्ञान को समृद्ध कर सकेंगे। 'युवाओं में बढ़ती अनुशासनहीनता और आक्रोश का समाज पर प्रभाव' विषय पर रचनात्मक लेखन कीजिए।	प्रतिदिन शब्दकोष से नवीन शब्दों का चयन कर निजी शब्दकोश बनाइए।	नवीन शब्दों के निर्माण पर आधारित वर्ग-पहेली निर्मित कीजिए।	तर्कपूर्ण पद्धति एवं कलात्मकता का समावेश
SEPTE MBER	पद्य: ग़ज़ल	4	ग़ज़ल की सामाजिक सार्थकता पर तर्क-वितर्क कर सकेंगे।	अपने पसंदीदा ग़ज़ल गायक की किसी ग़ज़ल को कक्षा में सूनाइए।	ग़ज़ल और गीत में क्या अंतर है? उदाहरण देकर स्पष्ट कीजिए। *किसी प्रसिद्ध शायर की सुंदर ग़ज़ल लिखिए।	कल्पनाशीलता एवं संगीतिक अभिरुचि
	अर्धवार्षिक परीक्षा [01/9/26]		अर्धवार्षिक परीक्षा		अर्धवार्षिक परीक्षा	
OCTO BER	गद्य: गलता लोहा	6	परंपराओं के नाम पर अन्याय के समक्ष झुकने की अपेक्षा विरुद्ध खड़े होना सीखेंगे।	समाज में मौजूद किन परम्पराओं को व्यर्थ मानते हैं ?इन्हें दूर करने के लिए आप क्या प्रयास करेंगे ?	'जाति के आधार पर व्यवसाय का चयन किस प्रकार देश के विकास में बाधक है'- विषय पर विस्तृत चर्चा कीजिए।	तर्क, विश्लेषण, व्याख्या, पारिस्थितिकीतंत्र की समझ
	गद्य : रजनी	6	विविध क्षेत्रों में प्रयुक्त होने वाली तकनीकी शब्दावली के विषय में जानेंगे और उसका उपयोग कर सकेंगे।	किसी भी क्षेत्र विशेष में प्रयुक्त होने वाले दस तकनीकी शब्द लिखिए।	समाज में दिनों-दिन बढ़ती ट्यूशन वृद्धि की समस्या पर आधारित लघु फिल्म बनाइए।	सूचना एवं संचार प्रौद्योगिकी साक्षरता

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	पद्य : * हे भूख मत मचल * हे मेरे जूही के फूल जैसे ईश्वर	6	अहंकार का त्याग एवं इंद्रिय नियंत्रण जैसे महत्वपूर्ण गुण को समझ कर आत्मसात कर सकेंगे।	आप स्वयं पर किस तरह नियंत्रण रख पाते हैं ? पाठ के आधार पर लिखिए।	कवयित्री के अन्य पदों का चयन कर संगीत में प्रस्तुति दीजिए।	व्यक्तिगत अभिव्यक्ति
NOVE MBER	गद्य : जामुन का पेड़	6	पाठ में आए विभिन्न विभागों के नाम तथा उनकी कार्यशैली से परिचित हो सकेंगे।	क्या आप भी कभी सरकारी कार्यशैली का शिकार हुए हैं ? अपना अनुभव सुनाइए।	विश्व भर में पाए जाने वाले कुछ अनोखे फलों के बारे में सचित्र जानकारी एकत्र कर कलात्मक संग्रह का निर्माण कीजिए।	कलात्मकता
	पद्य: सबसे खतरनाक	8	विद्यार्थी मानव जीवन के लिए सबसे खतरनाक परिस्थितियों को समझ सकेंगे।	क्या पाठ में वर्णित परिस्थितियों को बदला जा सकता है ? कैसे ?	'जीवन में संघर्ष का महत्व' विषय पर अनूच्छेद लेखन कीजिए।	भाषायी दक्षता
	वितान : राजस्थान की रजत बूंदें	10	राजस्थान जैसे सूखे क्षेत्र में जल की समस्या को समझ कर जल-संरक्षण हेतु सबको प्रेरित कर सकेंगे।	जल संरक्षण पर आधारित स्लोगन लिखिए।	जल संकट पर एक पोस्टर बनाकर जल-संरक्षण के संदेश को नारे के रूप में लिखिए। भोपाल के प्रसिद्ध बड़े तालाब के आकर्षक छायाचित्र लेकर विद्यालय की कलादीर्घा में लगाइए।	सहयोग, सहकारिता, प्रकृति अनुशीलनता
	PT-2 {16/11/26}		PT-2		PT-2	
DECE MBER	गद्य :भारत माता	4	भारत माता के सही अर्थों को समझकर एकता के सूत्र में बँध सकेंगे।	जनमानस की जय से क्या संभव होगा और कैसे?	भारत के मानचित्र पर सभी प्रदेशों को दर्शाते हुए वहाँ की जनसंख्या के आंकड़े भी लिखिए।	वैश्विक जागरूकता
	पद्य : आओ मिलकर बचाएं	6	आधुनिकता की दौड़ में लुप्त होती संस्कृति के संरक्षण हेतु संकल्पबद्ध हो सकेंगे।	वर्तमान परिस्थितियों में आप क्या बचाना चाहेंगे और क्यों ?	किसी आदिवासी समाज की पारंपरिक सामाजिक एवं सांस्कृतिक छवि को दिखलाता हुआ वृत्त चित्र बनाएं।	मानवतावाद , पर्यावरण संरक्षण और साक्षरता
	वितान :आलो आंधारि	8	बेबी हालदार के जीवन से संघर्ष की प्रेरणा ले सकेंगे।	बेबी हालदार की जीवनगाथा आपको क्या सोचने पर विवश करती है?	आपके घर में कार्य करने वाली घरेलू सहायिका से बातचीत कर उसके जीवन और परिवार के विषय में जानकारी एकत्र कीजिए।	दृढ़ता एवं संकल्पबद्धता
JANU ARY	पाठ्यक्रम की पुनरावृत्ति		पाठ्यक्रम की पुनरावृत्ति एवं वार्षिक परीक्षा		पाठ्यक्रम की पुनरावृत्ति एवं वार्षिक परीक्षा	

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

CLASS : XI

SUBJECT:HINDI CORE [302]

	एवं वार्षिक परीक्षा [20/1/27]					
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NAME OF INCHARGE TEACHERS: SUNITA BHATNAGAR

SIGNATURE OF SUBJECT COORDINATOR:

SIGNATURE OF PRINCIPAL: