

**ACADEMIC PLAN: 2024-25**

**CARMEL CONVENT SR. SEC. SCHOOL, RATANPUR, BHOPAL**

**STD: X**

Month	Name of the Unit / Chapter/ Topic Book-1 First Flight; Book-2 Footprints Without Feet	Time Allotted for each Unit (hrs)	Learning Outcomes	Suggested Activities/ Internal Assessment (SEA & MT) / Inclusive Activity	Art Integrated Activity/ Art Integrated Project	Assessment ( 50% Competency Based Assessment )	Time Spent for Project & Home work (hrs)
April	Book1- A Letter to God	6	To develop faith in God	Reading of the lesson, Learning the difficult words and their meanings, Question-Answers, Textual exercises	Project on a photo album of any five Poets and Authors from the states of <b>Madhya Pradesh and Bihar</b> , a comparative study ( <b>Art Integrated Project</b> )	Competency based class test, Character Sketch, Diary Entry, Worksheets, Dictation test, Oral test, Hots questions , summary of the lessons and poems etc.	2
	Poem1- Dust of snow	1	To read, comprehend and appreciate the poem	Reading of the poem, Learning the difficult words and their meanings, Question-Answers, Textual exercises			1
	Poem2- Fire and Ice	1	To make the students learn how the world will end	Reading of the poem, Learning the difficult words and their meanings, Question-Answers, Textual exercises			1
	Book 2- A Triumph of Surgery	5	To respond to complex texts independently by making them write character sketch of Mrs. Pumphrey and her pet	Reading of the lesson, Learning the difficult words and their meanings, Question-Answers, Textual exercises			2

	Grammar-Tenses	4	To make them understand the complexities of tenses by simplifying it			2
June	Book1- Nelson Mandela	6	To make the students prepare and learn a powerful speech as that of Nelson Mandela	Poster depicting the Life and Works of Nelson Mandela Question-Answers, Textual Exercises, Vocabulary Hunt		2
	Book-2 Two Stories about Flying	6	To develop strong determination to reach one's goal.	Letter Writing (formal), Poem Recitation, Question-Answers, Textual Exercises, Vocabulary Hunt		2
	Poem-3 A Tiger in the Zoo	1	To make them understand that all animals will be happy only in their natural habitat.	Poem Recitation, Question-Answers, Textual Exercises, Vocabulary Hunt		1
	Book2- The Thief's Story	4	To win the trust of others by hardwork	Letter Writing (formal), Question-Answers, Textual Exercises, Vocabulary Hunt, grammar test		2
	Grammar-Reported Speech	6	to make correct usage of tenses in the Reported Speech			2

	Writing Skill- Formal Letter	3	To communicat e thoughts, ideas and opinions verbally and non-verbally			2	
JULY	Book1-From the Diary of Anne Frank	6	To understand the characters, their role and the elements of humour in the story	Diary Entry, Reading of the lesson, Grammar exercises		PT -1 A Letter to God, Dust of Snow, Fire and Ice, A Triumph of Surgery, Grammar- Tenses	2
	Book1- Glimpses of India	6	To appreciate the rich heritage of our nation by understandi ng the text in diverse context.	Reading of the lesson, Learning the difficult words and their meanings, Question- Answers, Textual exercises			2
	Poem 4- How to Tell Wild Animals	1	To develop their imaginative and analytical skills	Reading of the poem, Learning the difficult words and their meanings, Question- Answers, Textual exercises			1
	Book 2- The Midnight Visitor	4	To develop strong determinati on to reach one's goal.	Reading of the lesson, Learning the difficult words and their meanings, Question- Answers, Textual exercises			2

	Book2- A Question of Trust	4	To develop imaginative and analytical skills by understanding that secret agents in fiction are projected like ideal men	Reading of the lesson, Learning the difficult words and their meanings, Question-Answers, Textual exercises			2
	Writing Skill - Analytical Paragraph	2	To develop the analytical skills by comparing and contrasting the given cue	Analytical paragraph based on a given outline/data/chart/cues, Reading of the lesson, Textual exercises, Question-Answers			2
AUGUST	Book1 -Mijbil the Otter	5	To empathize with animals, To read literary texts for enjoyment/pleasure	Writing summary of the lesson		Dictation Test, Competency based class test, Character Sketch	2
	Poem5- The Ball Poem	2	To read literary texts for enjoyment/pleasure, to learn to value one's own things	Writing summary of the poem, Identifying poetic/literary devices			1

	Poem6- Amanda!	2	To enable the students to be specific in reflection' expression and individual opinion and deeper understanding of Amanda	Writing summary of the poem, Identifying poetic/literary devices			1
	Book2- Footprints Without Feet	4	To make them know that science is a good servant but a bad master	Writing summary of the lesson, Dictation test			2
	Grammar- Determiners	4	To enable them to understand the finer aspects of grammar	Exercises			2
SEPTEMBER	Revision plus PT-2 (Term I)			Before exam Revision, After exam Role Play		PT- 2 (TERM- I) All topics covered till August	3

	Book1- The Proposal(Play)	6	Play- To help them identify the different types of conflict within the story, to speak with coherence and cohesion while participating in interactive tasks, to use language to develop their imaginative and analytical skills.	Role Play			2
	Book2- The Making of a Scientist	6	Where there is a will there is a way, to speak with coherence and cohesion while participating in interactive tasks	Act as a scientist, Speech			2
OCTOBER	Book1 -Madam Rides the Bus	6	To realise the experiences that travelling gives us	Diary Entry, Reading of the lesson, Grammar exercises		Competency based class test, summary of the poem, character sketch, Class test, Group Discussion	2

	Book1 - The Sermon at Benares	6	To sensitise the students to the fact that death is the ultimate truth in the world	Dictation Test, Character sketch			2
	Poem 7- The Trees	2	To compare the natural forests to the artificial ones	Summary of the poem, self composed poem			1
	Poem 8- Fog	1	To understand the powerful nature and the worth of natural occurrences	Identify the Poetic Devices			1
	Book2- The Necklace	6	To enable them to understand that satisfaction leads to contentment which is the key to happiness	Theme of the story			2
	Grammar- Subject -Verb- Agreement	4	To learn the usage of how a verb agrees with the subject in number and person	Exercises			2
NOVEMBER	Book1- Poem9- The Tale of Custard the Dragon	6	To help the students not to draw a conclusion without proper judgement	Group Activity			1

	Poem10- For Anne Gregory	2	To write short answers, paragraphs using appropriate vocabulary and grammar on a given theme	Summary of the poem			1
	Book2- Bholi	5	To sensitize the students to the importance of education and the need of emotional security and family support for children	Dictation test, Character Sketch			2
	Book2- The Book that Saved the Earth	6	To understand that half knowledge is a dangerous thing	Role play			2
	Grammar- Modals	1.4	To use the correct modals efficiently	Exercises			2
DECEMBER	PT-3 (Final Examination )		To gain precision through revision and practice			PT -3(Final Examination )	3
JANUARY	Pre-board						3.5
FEBRUARY							



**CARMEL CONVENT SR. SEC. SCHOOL, RATANPUR BHOPAL**

**YEAR PLANNER 2024-25**

CLASS- X								
Month	NAME OF THE UNIT / CHAPTER AND SUB TOPICS	TIME ALLOTTE D FOR EACH UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES / INTERNAL ASSESSMENT (SEA & MT) INCLUSIVE ACTIVITY (WEEKLY)	ART INTEGRATED ACTIVITY / ART INTEGRATED PROJECT	PRACTICALS	ASSESSMENT (INCLUDE 50% COMPETENCY BASED ASSESSMENT)	TIME SPENT FOR PROJECT AND HOMEWORK
April	गद्य - नेताजी का चश्मा पद्य - सूर के पद व्याकरण- रचना के आधार पर वाक्य भेद	6	* छात्रों में देश भक्ति, देश प्रेम की भावना जागृत करना	* व्याकरण पाठों पर आधारित माइंड मैप बनाइये   लिखित एवं समूह गतिविधि	मध्य प्रदेश एवं बिहार में मनाएँ जाने वाले प्रमुख पर्वों का तुलनात्मक अध्ययन करते हुए आकर्षक सूचनात्मक PPT तैयार कीजिये		* समाचार प्रस्तुति	3
		6	* ज्ञानमार्गी राह पर चलना	* सूर के अन्य पदों में से कोई दो पद कक्षा में सुनाइए   (एकल)			* पाठ्य पुस्तक पर आधारित गद्यांश को पढ़कर प्रश्नों के उत्तर लिखिए	3
		6	* वाक्यों की पहचान कर पाएंगे				* मौखिक प्रश्नोत्तरी	3
June	गद्य - बालगोविन भगत लखनवी अंदाज कृतिका से - माता का आँचल रचनात्मक लेखन : विज्ञापन	6	* रूढ़ियों का त्याग करना	* ग्रामीण लोकगीत कक्षा में सुनना (समूह गतिविधि )			* लेखक का भाषा सौंदर्य लिखिए	2
		5	* नवाबी शान शौकत तथा दिखावे की प्रवृत्ति से दूर रहना - वात्सल्य प्रेम	* मध्यप्रदेश एवं बिहार में मनाए जाने वाले प्रमुख पर्वों की तुलनात्मक अध्ययन करते हुए आकर्षक सूचनाप्रद PPT तैयार कीजिये (समूह)			* त्वरित प्रश्नावली	3
		6					* किसी वस्तु की बिक्री पर विज्ञापन बनाइए	4
		3						
July	गद्य - एक कहानी यह भी पद्य - राम लक्ष्मण परसुराम संवाद व्याकरण- वाच्य पद : परिचय अनुच्छेद लेखन	6	* पारिवारिक जीवन से जुड़ी अनुभूतियों की पहचान	* परिवार पर चर्चा	किसी पर्व विशेष पर शुभकामनायें संदेश देते हुए आकर्षक बधाई पत्र		* लक्ष्मण परसुराम की वीरता पर आधारित प्रश्न- हल	2
		8	* व्यंग्यात्मक शब्दों का प्रयोग न करना, वीर रस की पहचान	* राम लक्ष्मण परशुराम संवाद की नाट्य प्रस्तुति दीजिये   (समूह)			* बधाई पत्र	2.5
		6	* तीनों वाच्यों की पहचान, पदों का विस्तृत परिचय जान पाएंगे	* पदों का विस्तृत परिचय लेखन करना (एकल)			* इंटरनेट पर आधारित अनुच्छेद लेखन कीजिये	2.5
		10						4
		3					P.T. 1	1
August	गद्य -नौबतखाने में इबादत पद्य - आत्मकथ्य व्याकरण- अलंकार स्ववृत लेखन ई मेल	6	* वाद्य यंत्र शहनाई का परिचय	* सभ्यता और संस्कृति पर चर्चा			* प्रश्न अभ्यास	3
		6	* संगीत के प्रति लगन व साधना	* अलंकार को स्पष्ट करते हुए इसमें आकर्षक बोर्ड गेम या वर्ग पहेली बनाइये			* अलंकार पर आधारित वर्ग पहेली बनाइये	3
		5	* अपनी निजता को सार्वजनिक न करना					
		4	* अलंकृत भाषा का प्रयोग कर सकेंगे					
		4	* स्ववृत को जान पाएंगे					* स्ववृत तैयार करना

<b>September</b>	गद्य - संस्कृति	6	* सभ्यता व संस्कृति से परिचित होना					
	पद्य - अट नहीं रही है	5	* फागुन मास की सुंदरता का वर्णन मानवीयकरण अलंकार का परिचय	किसी पर्व विशेष पर शुभकामना संदेश देते हुए बधाई पत्र	व्याकरण पाठों पर आधारित माइंड मैप बनाइये		* परिचर्चा * पठित पदयांश पर आधारित प्रश्नावली * अर्धवार्षिक	3 10 3
	पत्र लेखन	3						
	संदेश लेखन	3						
<b>October</b>	पद्य - यह दन्तुरीत मुस्कान	4	*वात्सल्य प्रेम, बाल मुस्कान की विशेषताएँ	स्वैच्छिक विषय पर लघुकथा लेखन कीजिये ( एकल गतिविधि)			* लघु कथा * फसल किसके सहयोग व परिश्रम से उत्पन्न होती है	3 3
	फसल	4	* फसल मानव व प्रकृति के सहयोग से उत्पन्न होती है					
<b>November</b>	गद्य - संगतकार कृतिका से - साना - साना हाथ जोड़ी	6 6	* सुर, लय, ताल के द्वारा संगीत का परिचय	पर्वतीय यात्रा वृत्तान्त पर 200 शब्दों में अनुच्छेद लेखन करना			सुर लय ताल पर आधारित संगतकार की विशेषताएँ लिखिए   परिचर्चा * संस्कृति व सभ्यता को समझाइये	3 3 3.5
	कृतिका से - मैं क्यों लिखता हूँ	7.5	* लिखने के लिए प्रेरित किए जाने वाले कारणों से अवगत कराना	लेखकों के लेखन कार्य पर परिचर्चा करना   □				
<b>December</b>	पाठ्यक्रम पुनरावृत्ति वार्षिक परीक्षा		पुनरावृत्ति	पुनरावृत्ति			वार्षिक परीक्षा	
<b>January</b>	प्री. बोर्ड परीक्षा		परीक्षा	परीक्षा			प्री. बोर्ड	
<b>February</b>	प्रायोगिक एवं बोर्ड परीक्षा		परीक्षा	परीक्षा			प्रायोगिक एवं बोर्ड परीक्षा	
<b>March</b>	बोर्ड परीक्षा  Total Teaching Time ( 140.5 Hrs.)						बोर्ड परीक्षा  Total Non Teaching Time (69.5 Hrs.)	

# Carmel Convent Sr Sec. School Ratanpur Planner 2024-25

Class 10

Subject : Mathematics

Month	Name of the unit/ chapter and sub topic	Time allotted for each unit	Learning outcomes	Suggested activity or internal assessment (sea& MT) inclusive assessment weekly	Art integrated activity/Project	Assessment(included 50% competency based assessment)	Time for project and H W
April	Ch 1 Real numbers	8	Applies logical reasoning in classifying real numbers, proving their properties and using them in different situation Polynomials among algebraic expression and factorizing Finding the distance between the points,determine the coordinates of a point between two given points	Worksheet of ch 1,2 and 6		On the basis of worksheet.	2hr
	Ch 2 Polynomials	10hr					
	Ch 6 Coordinate geometry	12hr				Revision of ch 1,2 and 6	6hr
June	Ch 3 Linear equation in two variables Ch 4	10hrs	Algebraic and graphical representation of linear equations.	1. Conditions for consistency of linear equation in		Oral questions will be asked.	1hr  2hr

**Carmel Convent Sr Sec. School Ratanpur Planner 2024-25**

Class 10

Subject : Mathematics

	Quadratic equation	5hr	Finding roots and determining the nature of roots.	two variables by graphical method.		Revision	2hr
July	Ch 4 ( contd..) Ch 5 Arithmetic Progressions Ch 7 Similar Triangles  Ch 14 probability	4hr  10hr  10hrs  5hr	Apply the concept of A P to daily life situation. Basic proportionality theorem, property of similarity of triangle Probability of an event and applies the concept of probability in solving daily life problems.	2.To verify the given sequence is an arithmetic progression by paper cutting and pasting  Number game		Revision PT1 exam(ch 1,2 and 6) with competency based questions	1hr 1hr  2hr  2 hr
August	Ch 9Introduction to trigonometry Ch 10Height and Distance	10hr  8hr	Determine trigonometrical ratios. Finding height of different structures or distance from them.	3.Trigonometrical ratios for $30^\circ, 45^\circ, 60^\circ$		On the basis of activity on trigonometrical ratios .	2hr
September	Ch11 Area related to circles	12hrs	.Finding area of sector and segment.		Project on disaster risk reduction	PT2 (Ch 1,2,3,4,5,6,9,10 and 14)	3hr  3hr15 min
October	Ch 8 Circles	9hrs	Proofs of theorem related to	Quiz 4.Length of tangent	Art integrated	On the basis of quiz (group activity)	2hr  2hr

# Carmel Convent Sr Sec. School Ratanpur Planner 2024-25

Class 10

Subject : Mathematics

			tangent of a circle	drawn from an external point are equal by paper cutting and pasting.	exhibition( Model making including Bihar state.)Gro up project	On the basis of group models with presentations.	4hrs
November	Ch 13 Statistics Ch 12 Surface area and volumes	15hrs	Calculate mean , mode and median of data related to real life context. and segment. Surface area and volumes of objects in the surrounding by visualising them as a combination of solids	5.To verify that the angles in the same segment of a circle are equal, using the method of paper cutting and pasting.		Competency based questions will be given in class for revision.	4hr
		12hrs					2hr
							Revision of all chapters
December	Final Exam					PT3( Ch 1 to 14 )	3hr15 min
January						Revision Pre Board exam	7hrs 3hr15 min
February	Revision					Final exam starts	10hr
March							

Name of incharge teachers :Mr Nikhilesh ,Mrs Anamika, MrsBindhi,Mrs Gini

Cordinator : Anamika Chug

Signature of Principal :

ACADEMIC PLAN: 2024-25 CARMEL CONVENT SR SEC SCHOOL, RATANPUR, BHOPAL.

STD: X

SUBJECT: Chemistry

Month	Name of the Unit / Chapter/Topic	Time allotted to each unit	Learning Outcomes	Art Integrated Activity/Art Integrated Project	Suggested Activities/Internal assessment (SEA & MT)/Inclusive Activity Practicals	ASSESSMENT(INCLUDING 50% COMPETENCY BASED ASSESSMENT)	Non instructional Hours
APRIL	Chapter -1 Chemical reactions and equations	8 Hours	<ul style="list-style-type: none"> <li>• Understanding the concept of chemical reactions and equations</li> <li>• Writing balanced chemical equations for given reactions</li> <li>• Identifying different types of chemical reactions, including combination, decomposition, displacement, and double displacement reactions</li> <li>• Understanding the importance of chemical equations in predicting the products of a reaction</li> <li>• Balancing chemical equations using the law of conservation of mass</li> <li>• Interpreting and predicting the outcomes of chemical reactions based on</li> </ul>		1.Performing and observing the following reactions and classifying them into: A. Combination reaction B. Decomposition reaction C. Displacement reaction D. Double displacement reaction (i) Action of water on quicklime (ii) Action of heat on ferrous sulphate crystals (iii) Iron nails kept in copper sulphate solution (iv) Reaction between sodium sulphate and barium chloride solutions	Work sheet based on competency based questions	2 Hours

			<p>knowledge of reactants and products</p> <ul style="list-style-type: none"> <li>• Demonstrating practical knowledge of chemical reactions and equations through experiments and observations</li> </ul>				
JUNE	Chapter -1 Chemical reactions and equations	3 Hours	<ul style="list-style-type: none"> <li>• Applying knowledge of chemical reactions to real-life situations, such as in industries and everyday life.</li> </ul>				2 Hour
JULY	Chapter – 2 Acids, Bases and Salts	12 Hours	<ul style="list-style-type: none"> <li>• Understand the concept of acids, bases, and salts, and distinguish between them based on their physical and chemical properties.</li> <li>• Understand the pH scale and its importance in measuring the acidity or basicity of a solution.</li> <li>• Explain the ionization of acids and bases in water, and their</li> </ul>	To create a pH indicator chart using common household materials and understand the concept of pH scale and pH indicators	2. Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution	PT-1 (Ch. 1)	2 Hours

reactions with water to form hydronium and hydroxide ions.

- Understand the role of indicators in identifying the nature of a given solution as acidic, basic or neutral.
- Understand the common laboratory preparation methods of acids, bases, and salts.
- Understand the properties of acids and bases, and their reactions with metals, non-metals, and metal carbonates.
- Understand the concept of neutralization, and the chemical equation for the reaction between an acid and a base.
- Understand the uses of acids, bases, and salts in everyday life, including in food preservation, cleaning, and medicine.
- Understand the environmental impact of acid rain, and its causes and effects.



			<ul style="list-style-type: none"> <li>Apply the knowledge gained to solve numerical problems based on the concept of acids, bases, and salts.</li> </ul>				
AUGUST	Chapter – 3 Metals and non – metals	11 Hours	<ul style="list-style-type: none"> <li>Understand the physical and chemical properties of metals and non-metals.</li> <li>Describe the reactions of metals with oxygen, water, acids, and bases.</li> <li>Understand the reactivity series of metals and their importance in metallurgy.</li> <li>Understand the extraction of metals from their ores and their purification.</li> <li>Understand the properties and uses of alloys.</li> <li>Understand the formation and properties of ionic compounds.</li> </ul>	Create a 3D model displaying the formation of ionic bond & covalent bond.	3. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate	Work Sheet  Quiz	2 Hours
SEPTEMBER		2 Hours			4 A. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: (i) ZnSO <sub>4</sub> (aq) (ii) FeSO <sub>4</sub> (aq) (iii) CuSO <sub>4</sub> (aq)	Term-1 (Ch. 1, 2 & 3)	4 Hours

					(iv) $\text{Al}_2(\text{SO}_4)_3(\text{aq})$ B. Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.		
OCTOBER	Chapter – 4 Carbon and its compounds	10 Hours	<ul style="list-style-type: none"> <li>Understanding the bonding in carbon compounds - covalent bonding, multiple bonds, and its effect on the physical properties of the compound.</li> <li>Identifying and naming different types of organic compounds such as alkanes, alkenes, alkynes, and their derivatives.</li> <li>Understanding the physical and chemical properties of different types of organic compounds and the factors that affect their reactivity.</li> <li>Learning about the different methods of preparation of organic compounds and their practical applications in everyday life.</li> <li>Understanding the concept of</li> </ul>	3D model of a carbon molecule and its compounds .	5. Study of the following properties of acetic acid (ethanoic acid): i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate	Worksheet Quiz	2 Hours

			<p>homologous series and the trends in physical and chemical properties of the members of the series.</p> <ul style="list-style-type: none"> <li>• Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction).</li> <li>• Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.</li> </ul>				
NOVEMBER		3 Hours			6. Study of the comparative cleaning capacity of a sample of soap in soft and hard water.		2 Hours
DECEMBER						Term-2 (Ch. 1, 2, 3 &4)	3 Hours
JANUARY						Pre-Board	
FEBRUARY						FINAL BOARD EXAM	
MARCH						FINAL BOARD EXAM	

NAMES OF THE SUBJECT TEACHERS:

Mrs Bindu Dalal  
Dr Pragati Vijay  
Mrs Leena Shukla

Subject Coordinator:

Mrs Bindu Dalal

ACADEMIC YEAR PLAN : 2024-25								
Name of the Subject : Physics (SCIENCE code 086)			Class: X					
Month	Name of the Unit / Topics	Time Allotted for each unit	Learning Outcomes	Suggested Activities / Projects under internal assessment/ Inclusive activity (weekly)	Art Integrated Activity/ Project	Practicals	Assessment (Include 50% competency based assessment)	Time spent for project and Homework
APRIL	<b>Light: Reflection and Refraction</b> Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.	9(6h)	Students will be able to--- *Differentiates between reflection and refraction. *Plan and conduct investigations/ experiments to arrive at and verify the facts/ principles/ phenomenon that light seems to be travelling in a straight line. *Use Cartesian sign convention for spherical mirrors *learn the concept of focal length of mirrors. *solve practical numericals based on mirrors using mirror formula and magnification of mirror.	Activities: 1) Make the list of five five things which shows concave mirror and convex mirror. 2) Students will do the activity in small groups to find the image distances for various object distances in case of concave mirror.	<b>Student will make any one Art integrated activity from following activities.</b> Activity : 1) Make the 3D chart showing image formation.	EXP.:1)Determination of the focal length of i) Concave mirror ii) Convex lens by obtaining the image of a distant object.	Class test * MCQs * Assertion-Reasoning *Question-Answers	2h
JUNE	<b>Refraction;</b> Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula(Derivation not required); Magnification. Power of a lens.	6(4h)	Students will be able to--- *Explain processes and phenomena, such as the type of images formed for different lenses, *understand the role of medium/density in refraction *understand the uses of mirrors and lenses	Activity:1) Students will demonstrate activities to exhibit the concept of refraction of light. 2) Students will make the convex lens from simple household things and will observe refraction of light.	2) Make convex lens from household things.	EXP.: 2)Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.	PT-1 * MCQs *Assertion-Reasoning *Question-Answers *Numericals	2h
JULY-AUGUST	<b>Human Eye and Colourful World:</b> Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset).	18(10h)	Students will be able to--- * understand the structure of human eye and different parts location and uses. * understand the functioning of lens and eye. * understand the defects of vision and its correction.	Activity: 1) Individually students will observe the formation of rainbow with the help of garden pipe. 2) Students will observe the dispersion of light with the help of glass prism and sunrays.	3) Make 3D model of Human Eye showing different parts of eye. 4) Make 3D model using POP or some other materials of defects and its correction.	EXP.: 3)Tracing the path of the rays of light through a glass Prism.	Class test *Numerical Worksheet	2h
AUGUST-SEPTEMBER	<b>Electricity:</b> Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.	24(16h)	Students will be able to--- *Use the convention that the direction of electric current is opposite to the direction of flow of electrons. : *Use the SI units and symbols for current, charge, potential difference, resistance, resistivity . *Plans and conducts experiments to verify Ohm's law, *understand effect on resistance when the resistors are connected in series and in parallel., *understand heating effect of current. * Explains the process of electric conduction., electric circuit, Ohm's law. *Analyse and interprets V-I	Activity: 1)With the help of small experimental set up students will learn dependence of resistance on length and area of cross section of wire		EXP.:4) Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. EXP.:5)Determination of the equivalent resistance of two resistors when connected in Series and Parallel.	TERM-1 * MCQs *Assertion-Reasoning *Question-Answers Numericals	3h













ACADEMIC PLAN :2024-25

CARMEL CONVENT SR SEC SCHOOL ,RATANPUR,BHOPAL.

STD: X

SUBJECT: BIOLOGY

Month	Name of the Unit / Chapter and subTopic	Time Allotted For Each Unit	Learning Outcomes	Suggested Activities/ Internal Assessment(SEA&MT)/Inclusive activity (Weekly)	Art Integrated Activity/Art Integrated Project	Practicals	Assessment (Include 50% Competency Based Assessment)	Time Spent For Project And Homework
APRIL	CHAPTER 6 LIFE PROCESSES	7 hours	Recall, understand and understand	Model on digestive system and respiration	Draw flow charts to show nutrition ,transportation and respiration in humans	Mounting of leaf peel to show stomata	Worksheet	3 hours
JUNE	CHAPTER 6 CONTINUED	8 hours	Analyse the effects of enzymes	Charts on circulation and excretion	Draw excretory system of man	Carbon dioxide is given out during photosynthesis	MCQ	3 hours
JULY	PT1 CHAPTER7 Control and coordination in plants and animals	12 hours	Analyse the working of PNS ,CNS	Comparative study based on different functions of brain using mind map	Make a chart to show the three parts of brain and their functions	Observe nerve cell under microscope	PT1	3 hours

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SUBJECT: BIOLOGY

AUGUST	CHAPTER 8 How do organisms reproduce ?	8 hours	Correlation and importance of reproduction	Modes of transmission of STD and prevention	Sex determination in humans	Study binary fission in amoeba Budding in yeast and hydra	Quiz	2 hours
SEPTEMBER	TERM 1 (PT 2)						PT2	3 hours
OCTOBER	CHAPTER 9 Heredity	12 hours	Understand and analyse	To make punnet square with monohybrid and dihybrid traits	Laws of Mendel	Study of monocot and dicot seed	MCQ	2 hours
NOVEMBER	CHAPTER 15 Our environment	7 hours	Achievable and correlation between life and environment	To differentiate between biodegradable and non biodegradable substances	Importance of Ozone layer		Presentation	2 hours

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STD: X

SUBJECT: BIOLOGY

DECEMBER	PT 3 (FINAL EXAM )						PT3	
JANUARY	PREBOARD						PREBOARD	
FEBRUARY							BOARD EXAMS	
MARCH								

NAME OF THE SUBJECT TEACHER :Dr NEERU THAKUR , SHAMPA MAITRA , SHEELA JOSEPH

SIGNATURE OF THE SUBJECT COORDINATOR:

## CARMEL CONVENT SR SEC SCHOOL, RATANPUR YEAR PLANNER 2024-25

Class: X

Subject: Sanskrit

MONTH	NAME OF THE UNIT/CHAPTER AND SUB TOPICS	TIME ALLOTTED FOR EACH UNIT	LEARNING OUTCOMES	SUGGESTED ACTIVITIES/INTERNAL ASSESSMENT(SEA&MT)/INCLUSIVE ACTIVITY (WEEKLY)	ART INTEGRATED ACITIVITY/ART INTEGRATED PROJECT	PRAऔशCTICALS	ASSESEMENT (INCLUDE 50% COMPETENCY BASED ASSESEMENT)	TIME SPENT FOR PROJECT AND HOMEWORK
April	प्रथमः पाठः शुचिपर्यावरणम् व्याकरण सन्धि व्यंजनसन्धि	22 घण्टे	पर्यावरण की रक्षा करना चाहिए इसके बिना जीवन असम्भव है	गायन कौशल का विकास	मध्यप्रदेश के स्थापना दिवस पर होने वाले सांस्कृतिक कार्यक्रमों का तथा बिहारराज्य के छठ पर्व का सचित्र संक्षिप्त विवरण दीजिये। परियोजना कार्य 15 घण्टे		अस्माकं पर्यावरणे किम् किम् दूषितं अस्ति?  केषां माला वरणीया?	पाठ्यक्रम आधारित प्रत्ययों को उदाहरण सहित चार्ट के माध्यम से प्रदर्शित कीजिये घण्टे 12.5
June	द्वितीयः पाठः बुद्धिर्बलवती सदा व्याकरण विसर्ग सन्धि चतुर्थः पाठः शिशुलालनम्	12 घण्टे	बौद्धिक बल शारीरिक बल से बढ़कर होता है	संस्कृत वार्तालाप			भामिनी कया विमुक्ता ?  व्याघ्रः किम् विचार्य पलायितः?	घड़ी का चित्र बनाकर समय लेखन संस्कृत में बताइये। 12 घण्टे।

July	पञ्चमः पाठः जननी तुल्यवत्सला व्याकरण समास तत्पुरुष, बहुव्रीहि, अव्ययीभाव, द्वन्द्व	24 घण्टे	माता सभी सन्तानों को समान रूप से प्यार करती है लेकिन कमजोर सन्तान की ओर उसका अधिक लगाव होता है	संस्कृत पठनकौशल विकास	सरस्वती का चित्र चिपकाकर या बनाकर सरस्वती वंदना लिखिए। 10 घण्टे		कृषकः किम् करोति स्म?  जननी कीदृशी भवति?  PT 1 Chapter 1,2	अपनी पाठ्यपुस्तक पर आधारित दश सूक्तियों को लिखो। 10 घण्टे।
August	षष्ठः पाठः सुभाषितानि व्याकरण प्रत्यय मतुप्, ठक्, त्व, तल्, टाप्, डीप्।	22 घण्टे	सज्जनो संगति तथा परोपकार जीवन को ऊचाइयो तक ले जाता है	धारूपों का प्रयोग	उद्यान का चित्र बनाकर स्वच्छ पर्यावरण पर पांच वाक्य लिखिए। 10 घण्टे।		कीदृशः जनः गुणं जानाति?  पिकः कस्य गुणं जानाति?	
September	सप्तमः पाठः सौहार्द प्रकृतेः शोभा व्याकरण वाच्यपरिवर्तन	22 घण्टे	मित्रता और सदभाव से जीवन जियो प्रकृति से प्रेम करो	शब्द रूपों का प्रयोग			वनराजः कैः दुरवस्थाम् प्राप्तः ?  सर्वे काम् प्रणमन्ति?  Term 1 Chapter 1,2,4,5,6	

							Grammar Sandhi, Samas, Pratayay, Vachya, Sankhya, Anuwad, Anuched etc	
October	अष्टमः पाठः विचित्रः साक्षी व्याकरण समय लेखन अव्यय  नवमः पाठः सूक्तयः	22 घण्टे	प्रमाणं के अभाव में किसी भी निर्णय पर पहचना असम्भव है सजा दोषी को ही मिलती है परोपकारी बने	सम्भाषण कौशल का विकास  गायन कौशल विकास			अतिथः केन प्रबुद्धः?  सा कया क्रन्दति स्म? पिता पुत्राय बाल्ये किम् यच्छति स्म?  वाचि किम् भवेत्?	
November	द्वादशः पाठः अन्योक्तयः अशुद्धि संशोधन, पत्र ,चित्र।	16.4	ईमानदारी, सच्चाई और सदभावना उन्नति के शिखर तक पहचाती है	संस्कृत सम्भाषण कौशल विकास			वृष्टिभिः वसुधां के आर्दयन्ति?  चातकः कुत्र वसन्ति?	
December							Term 2 Chapter 1,2,4,5,6,7,8,9,12  Full grammar	
January							Pre Board	
February								
March								





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**ACADEMIC PLAN :2023-24**

**STD: X**

**SUBJECT: INFORMATION TECHNOLOGY(402)**

Month / No of Working Days	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment/PRACTICALS	Assignment	Assessment
<b>APRIL</b>	Basic ICT skills Session 1 Basic Computer Operations Session 2 Performing Basic File Operations Session 3 Computer Care and Maintenance Session 4 Computer Security and Privacy	Here students learn about Computers Basic operations,	Identification of task bar, icons, menus, etc. Demonstration and practicing of creating renaming and deleting files and folders. Procedures	Write the procedure to be followed for cleaning, care and maintenance of hardware and software.	PROJECT
<b>JUNE</b>	Entrepreneurial Skills Session 1 Entrepreneurship and Society Session 2 Qualities and Functions of an Entrepreneur Session 3 Myths about Entrepreneurship Session 4 Entrepreneurship as a Career Option  Unit – 1 Digital Documentation Session -1 Create and Apply Styles in the document. Session -2 Insert and use Images Session -3 Create and use Template	Qualities and functions of an entrepreneur  Role and importance of an entrepreneurship  Creating and updating new style from selection Creating drawing objects setting or changing its properties, Resize, crop and delete an image.	Writing a note on Entrepreneurship  Myth about entrepreneurship  Insert an image to document from various sources. Set or change the properties of a drawing object.	Colleting local stories of first generation and entrepreneurs  Group discussion of self – qualities that students feel are needed  How to Resize, crop, delete an image.	
<b>JULY</b>	Unit – 1 Digital Documentation Session-4 Create and customize table of contents Session – 5 Implement Mail Merge	Creating a template. Updating a document	Use of predefined templates. Set up a custom default template.	Create template, Create table of contents, apply styles.	PT – 1 Basic ICT Skills
<b>AUGUST</b>	Unit -2 Electronic Spreadsheet Session-1 Analyze Data using Scenarios and Goal Seek Session – 2 Link data and spreadsheet Session -3 Share and Review a spreadsheet Session -4 Create and use Macros	Using Data consolidation, scenarios and Goal Seek Linking of Data within the sheet, other sheet.  Creating and Run	Use of Data Consolidation, Creating Scenarios, Apply Goal Seek using formulas  Create a new macro and	Create 3 sheet for data consolidation, Create Scenarios, Applying Goal seek to the formula.	PRACTICAL TEST

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**SUBJECT: INFORMATION TECHNOLOGY(402)**

	in Spreadsheet	a Macro	how to run a macro		
<b>SEPTEMBER</b>	Unit -3 RDBMS Session -1 Appreciate the concept of database management Session -2 Create and edit tables using wizard and SQL Session – 3 Perform operations on Table	Concept of Database, Advantages of database, Features of database Create and edit a table Perform operations of table data	Creating a table by declaring fields, then insert data into the fields.  Edit data into fields, Update fields, Learn SQL commands.	Prepare a simple table with some standard fields, Assign primary key,  Identify primary key, composite key, foreign key	Term1(PT2)
<b>OCTOBER</b>	Unit -3 RDBMS (Continue...)  Session – 4 Retrieve data using Query Session -5 Create Forms and Reports using wizard.  Unit 2 Self-management Skills Session 1 Stress Management Session 2 Self-awareness — Strength and Weakness Analysis	Creating forms using wizards Creating Reports using wizards  Meaning and importance of stress management Ability to work independently	Enter, remove, edit data using forms. Create a report of form through wizard, Search a record  Exercises on stress management  Planning of an activity	Use of Query by SQL commands, Demonstrate to modify forms, various eg. of forms.  Preparing write-up on an essay on holiday trip  Goals, Executing tasks in a specific period, with no help	
<b>NOVEMBER</b>	Unit – 4 Web Applications and Security Session 1: working with accessibility options  Session 2: networking fundamentals Session 3: introduction to instant messaging Session 4: chatting with a contact – google talk Session 5: creating and publishing web pages – blog Session 6: using offline blog editors	Understand various types of impairment that impact computer usage. Network and its types, Client Server  Creating IM account and its usage. Gtalk  Learn and appreciate a blog and its creation	Illustrate use of various options under Computer Accessibility  Identify applications of internet  Illustrate steps to create instant messaging account  Illustrate Blog creation and setting various parameters in it.	Use of toggle keys, filter keys, sticky keys and Sound sentry  Identifying types of networks and selecting internet  Chat with a contact and send messages  Blog creation	PT3

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	<p>Session 7: online transactions session 8: internet security</p> <p>Session 9 : maintain workplace safety                  Session 10 : prevent accidents and emergencies                  Session 11 : protect health and safety at work</p>	<p>Concept to create blogs</p> <p>Concept of E-commerce                  Cyber threats like phishing,                  Falls and slips,                  Electricity safety</p> <p>Types of Accidents</p> <p>Hazards and sources of hazards</p>	<p>Publish the blog whenever internet connectivity is available</p> <p>Illustration of internet security threats, tips                  Falls and slips, Electrical safety, use of first aid.</p> <p>Illustrate to handle accidents at workplace</p> <p>Identify hazards and sources of hazards</p>	<p>How to create blog using application offline.                  Steps of securing passwords                  Practice to follow basic safety rules</p> <p>Follow evacuation plan and procedure                  How to handle accidents at workplace.                  Identify hazards and sources of hazards.</p>	
<b>DECEMBER</b>	PRACTICAL TEST				PRACTICAL TEST
	PREBOARD				PREBOARD

NAME OF THE SUBJECT TEACHER: PRAVEEN KUMAR AGRAWAL

SIGNATURE OF THE SUBJECT CO-ORDINATOR: