

Learning Outcomes - Class 10

LEARNING OUTCOME PROTOCOL ST. COLUMBA'S (MIDDLE SECTION)

Grade Specific and Subject Specific Learning Outcomes are framed, for the entire academic year. The same is disseminated to the stakeholders through the school website, in addition to hard copies being given. While framing Learning Outcomes, the focus is always on core competencies that the child will develop while undertaking the said course. The attempt is to integrate different levels of thinking skills within a set of Learning Outcomes. The stress is on framing Learning Outcomes that are SMART- Specific, Measureable, Achievable, Realistic and Time bound.

The annual Learning Outcomes are further broken down into monthly documents, disseminated amongst teachers with grade, subject, and topic references.

Teachers then write Weekly Lesson Plans, where Learning Outcomes Specific to the chapter being taught are penned down. This not only is a grade specific and subject specific exercise but, here the individual texture of each class takes centre stage, with the teacher aiming to incorporate multiple intelligence levels and aiming for an inclusive class. The topics to be taught in the upcoming week are the focal point at this stage.

Finally , before the commencement of each class, the learning outcomes are clearly spelt out to the students by each teacher. While in the on-site classes, this was done using the boards, in the current online scenario, this is done using slides in PPTs.

English	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1.First Flight: Unit 1: <ul style="list-style-type: none">• A Letter to God Unit 2: <ul style="list-style-type: none">• Nelson Mandela: Long walk to Freedom• Dust of Snow (Poem)• Fire and Ice(Poem) Foot Prints : <ul style="list-style-type: none">• A Triumph of Surgery• The Thief's Story• A Tiger in a Zoo (Poem) 2 Writing Skills : Formal Letters	1. <ul style="list-style-type: none">• Analyze the theme and moral value• Summarize the chapter, analyse characters(post master and Lencho) and situations• relate the historical narrative to the present context• recall the history of apartheid• relate the context of the narrative to SDGs• infer word meanings from the poem• Compose a poem on a similar theme (conservation)• Appreciate the poem and identify various poetic devices• Infer the theme of the given composition• Compare and contrast the tiger's life in the cage and in its natural environment• Recite the poem using correct intonation and pronunciation 2 Formal letter: <ul style="list-style-type: none">• understand the purpose and style of writing a letter

		<p>3 Grammar :Tenses</p> <p>4 Reading Comprehension</p>	<ul style="list-style-type: none"> Analyze and compare various formal letters to note differences of conventions, vocabulary, style and tone. Follow conventions of formal letter with respect to layout, solutions, etc. Recognize and demonstrate use of appropriate vocabulary, style and tone in formal letters. Write the address on the envelope clearly and in proper format. Write formal letters to people in immediate and extended social and academic environment for various purposes <p>3 Grammar: Tenses:-</p> <ul style="list-style-type: none"> define and understand the usage of all 12 tenses identify the verb and the tense in the given sentence explain and understand the structure, usage and rules of all 12 types of tenses use the tenses appropriately in grammatically correct sentences <p>4 Reading Comprehension</p> <ul style="list-style-type: none"> Read , understand and interpret critically the texts in different contexts. Develop curiosity and creativity through extensive reading
	May	<p>1 First Flight :Unit 3:</p> <ul style="list-style-type: none"> Stories About Flying The Ball Poem <p>Unit 4:</p> <ul style="list-style-type: none"> From the Diary of Anne Frank Amanda (Poem) <p>2 Foot Prints : Revision of Unit 1 and 2</p>	<p>1</p> <ul style="list-style-type: none"> Analyze the theme and moral value Summarize the chapter, analyse characters and situations Facilitate self -learning to become independent learners Question and articulate their point of view. relate it to the SDGs Appreciate the poem and identify various poetic devices Infer the theme of the given composition and identify poetic devices Recite, appreciate and paraphrase the poem using correct intonation and

		<p>3 Writing Skills : Formal Letters</p> <p>4 Grammar: Modals</p> <p>5 Reading Comprehension</p>	<p>pronunciation</p> <p>2</p> <ul style="list-style-type: none">● recall the key points of the story and paraphrase it● recall the theme and analyse the characters <p>3</p> <ul style="list-style-type: none">● understand the purpose and style of writing a letter● Analyze and compare various formal letters to note differences of conventions, vocabulary, style and tone.● Follow conventions of formal letter with respect to layout, solutions, etc.● Recognize and demonstrate use of appropriate vocabulary, style and tone in formal letters.● Write formal letters to people in immediate and extended social and academic environment for various purposes <p>4 Identify various modals and use them in grammatically correct sentences understand the differences between modals like must ; should, should; ought to, should; have to</p> <p>5 .</p> <ul style="list-style-type: none">● Read , understand and interpret critically the texts in different contexts.● Develop curiosity and creativity through extensive reading
July	<p>1 First Flight : Unit 5 The Hundred Dresses Unit 6: The Hundred Dresses 2 Animals (Poem)</p> <p>2 Foot Prints Footprints Without Feet Making of a Scientist</p>	<p>1.</p> <ul style="list-style-type: none">○ Analyze the theme and moral value● Summarize the chapter, analyse characters and situations● Appreciate the poem and identify various poetic devices● Infer the theme of the given composition● Recite, appreciate and paraphrase the poem <p>2. Analyze the theme and moral value</p> <ul style="list-style-type: none">● Summarize the chapter, analyse characters and situations● relate it the story to the present context● Facilitate self -learning to become independent learners	

		<p>3 Writing Skills : Analytical paragraph based on a given outline/ Data/ Chart/ Cue/s</p> <p>4 Grammar: Subject Verb Concord</p> <p>5 Reading Comprehension</p>	<ul style="list-style-type: none"> • Question and articulate their point of view. 3. analyse and interpret the given data 4. explain the rules for subject-verb agreement • identify and correct errors in subject-verb agreement 5. <ul style="list-style-type: none"> ○ Read , understand and interpret critically the texts in different contexts. ○ Develop curiosity and creativity through extensive reading
	August	<p>1 First Flight : Unit 7</p> <p>Glimpses of India</p> <p>Unit 9</p> <ul style="list-style-type: none"> • Madam Rides the Bus • The Tale of Custard the Dragon (Poem) <p>2 Foot Prints:</p> <ul style="list-style-type: none"> • The Necklace • The Hack Driver <p>3 Writing Skills: Analytical Paragraph (Practice)</p> <p>4 Grammar: Reported Speech</p> <p>5 Reading Comprehension</p>	<p>1</p> <ul style="list-style-type: none"> • Develop curiosity and creativity through extensive reading, • Express an awareness of social and environmental issues. • Acquire the skills of listening, speaking, reading, writing and thinking in an integrated manner • Infer the theme of the given composition • Recite, appreciate and paraphrase the poem <p>2.</p> <ul style="list-style-type: none"> • Analyze the theme and moral value <ul style="list-style-type: none"> ○ Summarize the chapter, analyse characters and situations ○ relate it the story to the present day context <p>3 interpret and analyse the given data</p> <p>4</p> <ul style="list-style-type: none"> • revise the rules for reported speech • transform the given sentence in indirect speech <p>5</p> <ul style="list-style-type: none"> • Read , understand and interpret critically the texts in different contexts. • Develop curiosity and creativity through extensive reading
	September	<p>1 First Flight : Unit 10</p> <ul style="list-style-type: none"> • Sermon at Benaras 	<ul style="list-style-type: none"> • Express an awareness of social and environmental issues.

		Unit 11 <ul style="list-style-type: none"> The Proposal 	<ul style="list-style-type: none"> Justify the title of the story 'Sermon at Benaras' Analyze the theme and moral value Summarize the chapter, analyse characters and situations Compare and contrast the characters of Natalia and Lemov from the play 'The Proposal'
October	1 Foot Prints : Bholi 2 Writing Skills : Formal letters (revision) 3 Grammar: Determiners 4 Reading Comprehension	1 <ul style="list-style-type: none"> summarize the story, analyze character of Bholi list out word meanings from the story relate it to the present day social context debate on the current issue and justify their stand 2 Formal letter: <ul style="list-style-type: none"> understand the purpose and style of writing a letter Analyze and compare various formal letters to note differences of conventions, vocabulary, style and tone. draft formal letters in the desired style and format 3 Determiners: identify and use the appropriate determiner in the context apply grammatical rules on determiners to fill up sentences using appropriate determiners 4 Reading Comprehension : same as mentioned for the month of April	
November	Revision of all Writing Skills and Grammar topics Reading Comprehension	<ul style="list-style-type: none"> revise and recall the style, format discussed while drafting formal letters , analytical paragraphs apply rules of tenses, determiners, subject verb agreement and reported speech to construct grammatically correct sentences Read , understand and interpret critically the texts in different contexts. Develop curiosity and creativity through extensive reading 	
December	Pre board -1 Exams	--read and apply the content learnt in answering questions	
January	Pre board Exams	--read and apply the content learnt in answering questions	
February	Remediation	--	

Hindi	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1. डायरी का एक पन्ना 2. मीरा के पद 3. कबीर की साखी 4. सूचना 5. विज्ञापन 6. अपठित गद्यांश 7. वाक्य रूपांतरण 8. मुहावरे	<ul style="list-style-type: none"> स्वतंत्रता आंदोलन के दौरान जन सामान्य में मौजूद देश भक्ति की प्रबल भावना को दर्शाना। मीरा बाई का अपने आराध्य के प्रति पूर्व समर्पण के भाव से उनकी भक्ति के दास्य भाव को समझना। छात्र साखी के माध्यम से मनुष्य के प्रति प्रेम, ईश्वर के प्रति भक्ति, वाणी में मिठास अन्य तात्त्विक ज्ञान आदि को समझेंगे। किसी भी प्रकार की सूचना देने के तरीके को सीखना। लोगों को आकर्षित करने वाले बिंदुओं की पहचान करना सीखना। गद्यांश का मूल भाव समझने, भाषा पर अधिकार बढ़ाने तथा प्रश्नों के उत्तर देने में सटीक शब्दों का प्रयोग करने में अधिक सक्षम बनाना। रचना के आधार पर वाक्य के भेद को जानना, एक भेद से दूसरे भेद में रूपांतरित करना सिखाना। विभिन्न मुहावरों का अर्थ एवं उनका वाक्य प्रयोग जानना।
	May	बड़े भाई साहब आत्मत्राण (deleted) टोपी शुक्ला औपचारिक पत्र अनुछेद अपठित गद्यांश	<p>बच्चों के व्यक्तित्व के विकास के लिए आवश्यक खेल या मनोरंजन को कम महत्व देने की मानसिकता की आलोचना।</p> <p>साहस के साथ आने वाली कठिनाईओं का सामना करने की प्रेरणा देना।</p> <p>टोपी तथा इफ़्फ़न की दोस्ती के माध्यम से समाज में सांप्रदायिक सोहार्द बढ़ाने पर ज़ोर देते हुए समझाना।</p> <p>विभिन्न प्रकार के पत्रों को लिखना सीखना। अपने विचारों को सही तार्किक ढंग से कहने की क्षमता विकसित करना।</p> <p>शब्दों के उचित चयन एवं सुगठित वाक्य-संरचना से छात्रों को परिचित होना।</p> <p>गद्यांश का मूल भाव समझने, भाषा पर अधिकार बढ़ाने तथा प्रश्नों के उत्तर देने में सटीक शब्दों का</p>

			प्रयोग करने में अधिक सक्षम बनाना।
July	ततारा वामीरो पर्वत प्रदेश में पावस हरिहर काका पदबंध समास		ईश्वर का उपहार : प्रेम - का सम्मान करने की सीख देना लोककथा के माध्यम से यह सीख कि समाज की जर्जर रुढ़ियों को तोड़ने के लिए लकड़ी की तलवार भी सक्षम होती है कविता के द्वारा प्रकृति सौंदर्य व उसका मानवीयकरण और वर्षा ऋतु की विशिष्टता से छात्र परिचित होंगे .पावस ऋतु में प्रकृति में आयी भिन्नता को समझेंगे कहानी के माध्यम से वयोवृद्ध के प्रति कर्तव्य तथा समाज में रिश्तों की अहमियत बताना। वाक्य व पदबंधों को पहचानना सीखेंगे। समास व उसके भेद को समझना व उसका प्रयोग करना।
August	अब कहाँ दूसरों के दुःख में दुखी होने वाले कर चले हम फ़िदा (कविता) 4. सूचना विज्ञापन समास लघु कथा लेखन		मनुष्य द्वारा जीव मात्र के प्रति प्रेम , दया, सहानुभूति , उदारता आदि की भावना रखने पर ज़ोर देना तथा पर्यावरण का ध्यान रखना, समझाना। देश की सीमा की रक्षा करने वाले सैनिकों की इस अभिलाषा को समझना कि देश के सम्मान को बनाये रखने के लिए अपने प्राणों का उत्सर्ग करने के लिए देशवासियों को तैयार रहना आवश्यक है। किसी भी प्रकार की सूचना देने के तरीके को सीखना। लोगों को आकर्षित करने वाले बिंदुओं की पहचान करना सीखना। समास व उसके भेद को समझना व उसका प्रयोग करना। छात्रों को कथा संक्षेप में , सुगठित शैली में व्यक्त करने से परिचित कराना।
September	कारतूस अपठित गद्यांश		भारत के इतिहास के जाँबाजों से छात्रों का परिचित होना। मनुष्य के व्यक्तित्व को वज़ीर अली जैसा निडर एवं ज़िंदादिल बनाने की प्रेरणा देना। गद्यांश का मूल भाव समझने , भाषा पर अधिकार बढ़ाने तथा प्रश्नों के उत्तर देने में सटीक शब्दों का प्रयोग करने में अधिक सक्षम बनाना।
October	झेन की देन समास, मुहावरे , पदबंध , वाक्य रूपांतरण		जीवन में शांति , स्थिरता एवं मनुष्यता सम्बन्धी मूल्यों को बचाए रखने की आवश्यकता को समझना। पुनः अभ्यास

	November	मनुष्यता (कविता) सपनों के से दिन	परोपकार , विश्व बंधुत्व , उदारता की भावना को मनुष्यता के लिए सर्वाधिक महत्वपूर्ण समझाना। शिक्षा पद्धति में बाल मनोविज्ञान का महत्व बताना तथा निम्नवर्गीय परिवार के अभिभावकों को बच्चों की पढ़ाई के महत्व को समझाने की कोशिश करना।
	December	Pre board -1 Exams	--
	January	Pre board -2 Exams	--
	February	Remediation	--

Maths	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1.REAL NUMBERS 2.STATISTICS 3. PROBABILITY	<ul style="list-style-type: none"> Recall concepts taught in real numbers and apply them in solving questions Recall what is grouped data,classmark,mean of raw and ungrouped data,median and mode of raw data Calculate mean of grouped data by 3 methods Calculate. Mode and median of grouped data Calculate probability related to cards,coins, die and miscellaneous questions
	May	1.POLYNOMIALS 2. QUADRATIC EQUATIONS 3. LINEAR EQUATIONS IN TWO VARIABLES	<ul style="list-style-type: none"> DEFINE ZEROES OF A POLYNOMIAL EXPLAIN GEOMETRIC MEANING OF ZEROES VERIFY RELATIONSHIP BETWEEN ZEROES AND COEFFICIENTS GEOMETRIC MEANING OF ZEROES AND VERIFY RELATIONSHIP BETWEEN ZEROES AND COEFFICIENTS FOR A CUBIC POLYNOMIAL COMPREHEND THE DIVISION ALGORITHM AND APPLY THE CONCEPT DEFINE STANDARD FORM of QE AND ITS SOLUTION SOLVE QE BY FACTORIZATION AND QUADRATIC FORMULA APPLY THE METHOD TO SOLVE WORD PROBLEMS IDENTIFY THE NATURE OF ROOTS SOLVE THE WORD PROBLEMS USING QUADRATIC FORMULA Recall the standard form of linear eq in 2 variables

			<ul style="list-style-type: none"> ● Interpret linear equation geometrically ● Solve a pair of l.e using algebraic and graphical methods ● Solve a pair of l.e using substitution, cross multiplication and elimination methods ● Comprehend, translate and solve the word problems.
	July	1. TRIANGLES 2. CIRCLES 3. CONSTRUCTIONS	<ul style="list-style-type: none"> ● Comprehend the concept of similarity. ● State ,prove and apply BPT, pythagoras, converse of pythagoras and area theorem ● define the tangent and secant to a circle. ● comprehend the properties of tangents and apply it to solve questions ● construct a pair of tangents to a circle and a triangle similar to a given triangle.
	August	1. VOLUME AND SURFACE AREA 2. INTRODUCTION TO TRIGONOMETRY	<ul style="list-style-type: none"> ● recall the formulae and properties of solid shapes done in class 9 ● calculate the volume and surface area of the combination of solids ● comprehend the concept of conversion of solids and frustum of a cone and apply it. ● comprehend the T ratios for angles and complementary angles and apply them ● memorize and apply fundamental T identities .
	September	1. APPLICATIONS OF TRIGONOMETRY	<ul style="list-style-type: none"> ● calculate height and distances of a right triangles using T ratios
	October	1. AREA RELATED TO CIRCLES 2. COORDINATE GEOMETRY	<ul style="list-style-type: none"> ● recall definition of segment, sector, arc and calculate area of sector and segment and length of an arc ● apply the concepts learnt to find the shaded region area. ● recall the knowledge of coordinates and cartesian system ● comprehend and apply distance formula, section formula and area of triangle.
	November	1. ARITHMETIC PROGRESSION	<ul style="list-style-type: none"> ● comprehend the meaning of progression and arithmetic progression ● find the nth term and sum to n terms of an AP and use it to solve questions.
	December	Pre board -1 Exams	recall and apply the content learnt in solving questions
	January	Pre board Exams	recall and apply the content learnt in solving questions
	February	Remediation	--

Science	Month	Chapter	Learning Outcomes The learners will be able to:
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		<p>2.Control and co-ordination</p>	<p>4)design creative methods to bring a positive change in the life style so as to conserve the resources.</p> <p>1)identify different parts of human brain. 2) trace the sequence of events taking place during a reflex action.</p> <p>3) trace the path of nervous impulse through the body.</p> <p>4)distinguish between tropic and nastic movements.</p> <p>5)draw well labelled diagrams of brain, reflex arc, and a neuron.</p> <p>6)appreciate the role of hormones in humans and plants.</p>
		<p>3.Electricity</p>	<p>1)define electric current, potential difference, resistance, resistivity and power.</p> <p>2)deduce ohm's law and verify it experimentally. 3)solve numericals on combination of resistors in series and parallel.</p> <p>4)derive and state the joules law of heating and solve numericals based on it.</p> <p>5)find an expression for electric power and derive commercial unit of electrical energy.</p>

	July	<p>1.Magnetic effects of electric current</p> <p>2.Acids bases and salts</p>	<p>1)analyse the concept of magnetic field and demonstrate its presence using a bar magnet.</p> <p>2)learn the properties of magnetic field lines.</p> <p>3)discuss the magnetic field around a straight current carrying conductor, a circular loop, a solenoid and an electromagnet.</p> <p>4)state and apply right hand thumb rule to find the direction of magnetic field.</p> <p>5)study the force on a current carrying conductor in a magnetic field.</p> <p>6) state and apply fleming's left hand rule to determine the direction of force produced.</p> <p>7)explain electromagnetic induction and state the fleming's right hand rule to determine the direction of induced current.</p> <p>8)study the construction, working and principle of an electric motor.</p> <p>1)compare the chemical properties of acids and bases using indicators and chemical reactions.</p> <p>2)appreciate the importance of pH in daily life.</p> <p>3)apply neutralization and pH to solve problems in day to day life.</p> <p>4)identify strong and weak acids and bases.</p> <p>5)describe the preparation of various salts.</p> <p>6)suggest the uses of these salts.</p>
	August	1.Light- reflection and refraction	<p>1)study the characteristics of image formation in plane mirrors.</p> <p>2)study the laws of reflection</p> <p>3) differentiate between real and virtual images.</p> <p>4)compare the types of spherical mirrors.</p> <p>5) draw ray diagrams for image formation by Spherical Mirrors (concave and convex mirror)</p> <p>6)solve numericals using mirror formula</p> <p>7)study the laws of refraction.</p>

		<p>2. Metals and non metals</p>	<p>8)observe the effect of refraction in daily life.</p> <p>9)compare the types of spherical lens.</p> <p>10)draw ray diagrams for image formation by Spherical lens (concave and convex lens)</p> <p>11)solve numericals using lens formula.</p> <p>12)determine the power of the lens.</p> <p>1)compare and contrast the physical properties of metals and nonmetals</p> <p>2)interpret and explain the varying degree of reactivity that metals display towards air water and acids through description and equations</p> <p>3)describe formation of ionic compounds, give explanation for the properties shown by ionic compounds.</p>
	September	<p>1.How do Organisms Reproduce?</p>	<p>1)discuss the importance of reproduction for continuity of generation</p> <p>2) differentiate between asexual and sexualreproduction.</p> <p>3)draw the different modes of reproduction.</p> <p>4)understand the importance of using birth control.</p> <p>5)study the reproductive systems in human male and female.</p> <p>6)discuss the menstruation cycle.</p> <p>7)appreciate the importance of government in banning prenatal sex determination.</p> <p>8)learn prevention of sexually transmitted diseases.</p>

	October	<p>1.Periodic Classification of Elements</p> <p>2.Human eye and the colourful world</p>	<p>1) state the Importance of classification of elements and explain earlier attempts of classification of elements ,state Newlands law of Octaves, Mendeleev’s periodic law, Modern Periodic law</p> <p>2)list merit and demerits of Doberneirâ€™s and Newlands Classification.</p> <p>3)appreciate achievements of Mendeleev’s classification and compare arrangement of elements in Mendeleev’s periodic table and Modern Periodic Table.</p> <p>4) critically analyse and identify the position of an element in the periodic table based on their electronic configuration.</p> <p>5)predict the variation in attributes of elements based on position in the periodic table</p> <p>1)Discover that white light is a mixture of colours and appreciate that the dispersion is caused by the difference in angles of deviation caused by a prism for different colours</p> <p>2)Correlate dispersion, refraction to certain observations in daily life and in nature like rainbow</p> <p>3)Correlate atmospheric refraction and scattering to certain observations in daily life and in nature like twinkling of stars, blue colour of sky etc</p>
	November	<p>1.Carbon and its compounds</p> <p>2. Heredity and evolution</p>	<p>1)draw electron dot structures of some simple carbon compounds -covalent bonding.</p> <p>2)provide IUPAC names and write the structural formula of the carbon compounds of simple hydrocarbons.</p> <p>1)Critically analyse the importance of sexual reproduction as an element of genetic variation.</p> <p>2)Study the laws of inheritance given by mendel.</p> <p>3)draw the monohybrid and dihybrid crosses.</p>
	December	Pre board -1 Exams	1)read and apply the content learnt in answering questions.
	January	Pre board Exams	1)read and apply the content learnt in answering questions.
	February	Remediation	--

		<p>4. Money and Credit</p> <p>5. Water Resources</p>	<p>politics on caste (To be marked through internal assessment)</p> <p>*identify the importance of money as a medium of exchange *analyse the inherent defects of the barter system *identify the modern forms of money *enumerate the terms of credit *differentiate between organised and the unorganised sector *evaluate the pros and cons of credit *identify and examine the functions and advantages of the self- help groups</p> <p>*analyse the causes for water scarcity *highlight the importance of rain water harvesting *outline the features of hydraulic structures in India (to be marked through internal assessment)</p> <p>*locate and label various dams of India on the given political map(only map work to be included)</p>
September	1.Political parties		<p>*define a political party *summarise the functions of a political party *outline the need for political parties in India *compare and contrast the different types of party systems of India *identify the challenges faced by the political parties *examine the need to reform political parties and devise reforms for the same</p>
October	<p>1.Manufacturing Industries</p> <p>2. Lifelines of National economy</p>		<p>*outline the process of manufacturing and examine its importance *list the factors influencing the location of industries *classify industries into agro based and mineral based *appraise the contribution of different industries to the economic development of the country *identify the products produced by different industries *examine the types of pollution caused by industries *evaluate the steps undertaken to prevent industrial pollution *list the different means of transport -land, water, air * list the different means of communication *examine the importance of transport , communication and trade for the country's progress *identify the types of roads in India and list the organization that maintain them *identify the factors affecting the construction of</p>

		<p>4.Challenges to democracy</p> <p>5. Popular struggles and movements</p>	<p>and development</p> <p>*outline the role of democracy in reduction of inequality and poverty</p> <p>* appraise the fact that democracy promotes dignity and freedom of an individual</p> <p>*identify the challenges faced by democratic countries</p> <p>*examine the guideline required for the success of political reforms</p> <p>*analyse how challenges change in different contexts (to be marked through internal assessment)</p> <p>*analyse the movement of democracy in Nepal</p> <p>*examine the water war of Bolivia</p> <p>*correlate democracy with popular struggles</p> <p>*identify pressure groups and movements (to be marked through internal assessment only)</p>
	December	Pre board -1 Exams	--
	January	Pre board Exams	--
	February	Remediation	--

Computer Science	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1.Cyber Ethics	<ul style="list-style-type: none"> Define the following terms: <ul style="list-style-type: none"> Cyber Ethics E-Commerce Enumerate and explain various means to safeguard user privacy Describe different types of online frauds Explain the concept of Secure Data Transmission
	May	1.Cyber Ethics	<ul style="list-style-type: none"> Elucidate Intellectual Property Rights Elaborate on the concept of Plagiarism Enlist the means to avoid Plagiarism Elucidate the concepts of:- <ul style="list-style-type: none"> Digital Property Digital Rights Digital Responsibilities
	July	1. Python Revision	<ul style="list-style-type: none"> Identify all the relational operators Implement the use of relational operators in the Python programs
	August	1. Python Revision	<ul style="list-style-type: none"> Implement Basic Selection statements in Python using IF Condition Develop programs with the combination of IF Condition and Relational Operators
	September	1. Python Revision	<ul style="list-style-type: none"> Recapitulate the Concept of Relational Operators and IF Condition

			<ul style="list-style-type: none"> ● Implement Advance IF Condition in Python programs.
	October	1. Python Revision	<ul style="list-style-type: none"> ● Develop condition based and menu driven programs by implementing the skills acquired during the session.
	November	1. Cyber Ethics 2. Python Revision	<ul style="list-style-type: none"> ● Recapitulate the Concepts of Python learnt during the session ● Recapitulate the Concepts of Cyber Ethics learnt during the session. ● Implement the knowledge while answering the questions.

Art	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1-Pencil Shading 2-Charcoal Shading 3-folk Art	<ul style="list-style-type: none"> ○ Enhance their sketching. ○ Learn shading technique ○ Learn about the folk art of India ● Demonstrate refined observational skills ○
	May	1- Calligraphy 2-Collage Making 3-Doodle Art	<ul style="list-style-type: none"> ● Students will be able to critically evaluate, appreciate the art of handwriting. ● Learn various fonts ● Improve their handwriting. ● Improve sketching.
	July	1-Environment Based 2-Poster Making(Nature) 3- Pattern Design	<ul style="list-style-type: none"> ● students will be able to develop sensitivity towards nature and environment. ● Acquire awareness about the immediate surroundings. ● Enhance sketching
	August	1- Still Life 2- Mandana Art 3- Submission of work done in 1 st Term	<ul style="list-style-type: none"> ● Apply elements (line, shape, form, texture, colour, value, and space) and principles (repetition, variety, rhythm, proportion, movement, balance, emphasis, and unity) in work that effectively communicates their ideas. ● Learn traditional folk Art
	September	1- Book Cover Design 2- Mask Making	<ul style="list-style-type: none"> ● Enhance his observation skills. ● Learn to make tribal masks. ● Gain knowledge of Tribal Art
	October	1-Diwali (Craft) 2- Folk Art	<ul style="list-style-type: none"> ● Learn about the festivals of India. ● To be part of the celebration of different festivals. ● Learn about the traditional folk art of India
	November	1- Christmas Craft 2- (SUBMISSION OF ENTIRE YEARS WORK)	<ul style="list-style-type: none"> ● learn to celebrate all festivals keeping diversity in mind ● Learn to compile his work aesthetically for submission
	December	Pre board -1 Exams	--

	er		
	January	Pre board Exams	--
	February	Remediation	--

PHE	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1. Importance of Physical Education 2. Marching	Develop motor ability skills Develop sense of rhythm Develop coordination ability
	May	1. Football laws 2. Cricket Laws	Rules and regulations of football Overall personality development Improves cardiovascular health Promotes teamwork and sharing Improve endurance and stamina Develop essential fine motor skills Improve hand-eye
	July	1. Meaning and Benefits of Yoga With Asanas 2. Asana's for stomach, liver and pancreas: A. Pawanmukta Asana B. Uttanpaada Asana C. Nauka Asana (Boat-Pose) D. Setubandha Asana E. Pada gushthasasarpa Asana	A sense of discipline and respect for oneself and others Develop mentally, physically, emotionally, socially and psychologically Overall personality development
	August	1. Asanas which are good for back pain and strengthen backbone muscles: A. Bhujanga asana B. Dand asana C. Shaulb asana D. Vipreetnauk asana E. Dhanur asana	The student will be able to demonstrate proficiency at the poses covered in class (at a basic level) The student will increase their dynamic flexibility The student will perform proper breathing techniques The student will be able to identify some of the major muscles used in any given pose The student will develop a greater sense of body self-esteem and appreciation for the art of yoga
	September	Exercises for fat loss.	The student will be able to know about the

			<p>strengths and weakness in their body.</p> <p>They would learn how to maintain their diet and know about the nutrients.</p> <p>They can find a way to tone their body and workout on the weak parts.</p>
	October	Cricket	<p>1 To be able some of the basic rules of cricket.</p> <p>2. To develop a range of skills to use in isolation and in a competitive context.</p> <p>3. To use basic skills with more consistency including striking a bowled ball</p> <p>4. To develop the range of Cricket skills they can apply in a competitive context.</p> <p>5. To choose and use a range of simple tactics in isolation and in a game context.</p> <p>6. To consolidate existing skills and apply with consistency</p> <p>7. To link together a range of skills and use in combination</p> <p>8. To collaborate as a team to choose, use and adapt rules in games.</p> <p>9. To recognise how some aspects of fitness apply to cricket e.g. power, flexibility and cardiovascular endurance</p> <p>10. To apply with consistency standard cricket rules in a variety of different styles of games.</p> <p>11. To attempt a small range of recognised shots in isolation and in competitive scenarios.</p> <p>12. To use a range of tactics for attacking and defending in role of bowler, batter and fielder</p>
	November	Yoga MundakAsana ,Vakra Asana , Gomukh Asana , Ardhmatsyendrasana	<p>The student will be able to demonstrate proficiency at the poses covered in class (at a basic level)</p> <p>The student will increase their dynamic flexibility</p> <p>The student will perform proper breathing techniques</p> <p>The student will be able to identify some of the major muscles used in any given pose</p> <p>The student will develop a greater sense of body</p>

			self-esteem and appreciation for the art of yoga
	December	Pre board -1 Exams	--
	January	Pre board Exams	--
	February	Remediation	--

Learning Outcomes - Class 10 (Alternate Stream)

LEARNING OUTCOME PROTOCOL ST. COLUMBA'S (MIDDLE SECTION)

Grade Specific and Subject Specific Learning Outcomes are framed, for the entire academic year. The same is disseminated to the stakeholders through the school website, in addition to hard copies being given. While framing Learning Outcomes, the focus is always on core competencies that the child will develop while undertaking the said course. The attempt is to integrate different levels of thinking skills within a set of Learning Outcomes. The stress is on framing Learning Outcomes that are SMART- Specific, Measureable, Achievable, Realistic and Time bound.

The annual Learning Outcomes are further broken down into monthly documents, disseminated amongst teachers with grade, subject, and topic references.

Teachers then write Weekly Lesson Plans, where Learning Outcomes Specific to the chapter being taught are penned down. This not only is a grade specific and subject specific exercise but, here the individual texture of each class takes centre stage, with the teacher aiming to incorporate multiple intelligence levels and aiming for an inclusive class. The topics to be taught in the upcoming week are the focal point at this stage.

Finally , before the commencement of each class, the learning outcomes are clearly spelt out to the students by each teacher. While in the on-site classes, this was done using the boards, in the current online scenario, this is done using slides in PPTs.

Painting	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1.Fundamentles of Visual Art 2.Elements of Art 3. Principles of Art 4.Understanding and appropriate use of Painting material Practical- Composition 1.Landscape 2.Seascape·	<ul style="list-style-type: none"> ● Students will be able to demonstrate basic understanding of Elements of art. ● Develop understanding of basic Principles of Art. ● Compose artwork aesthetically. ● Knowledge of using basic tools. ● Learn to work independently. ● Develop expressive possibilities of various media Practical- <ul style="list-style-type: none"> ● Enhance their sketching ● Learn to paint ● Enhance aesthetic sense ● Develop eye and hand coordination ● Appreciate the beauty in lines forms and colours ● Enjoy painting as a medium of expressions
	May	Theory- 1.Sketching from nature and imagination 2. Understanding and appropriate use of tools	Theory- <ul style="list-style-type: none"> ● Enhance their observation skills' ● Develop creativity ● Use painting tools and material appropriately ● Maintain his painting tools appropriately ● Display his paintings aesthetically·

		3. Indian folk art Warli Practical- Topics 1. Pencil shading technique 2. Charcoal shading 3. Crayon and oil pastel shading	<ul style="list-style-type: none"> • Practical <ul style="list-style-type: none"> • Apply pencil colour, oil pastels, poster colours, water colour as painting medium • Improve Sketching • Learn the technique of shading.
	July	Theory- 1-Indian folk Art Madhubani 2- Indian painting, Sculptures and Architecture. 3-Indian painting Bodhisattva Padmapani Ajanta caves Mother Teresa (M.F Husain) Practical Topics <ol style="list-style-type: none"> 1. One Point perspective 2. Nature study 3. Kite flying scene 4. Family Function scene 	<ul style="list-style-type: none"> • Appreciate Folk art techniques of various states. • Understand the culture of India. • learn to utilise natural material. • Develop sense of colour • Aware of creative, colourful village art. <ul style="list-style-type: none"> • Students will be able to appreciate ancient Indian Painting. • Learn Indian culture through painting. • Enhance his knowledge of painting technique. • Appreciate the works of various renowned artist Practical <ul style="list-style-type: none"> • Student will be able to create illusion of depth on their picture plan using one point perspective • draw their own ideas, concepts from their imagination. • Refine memory and observation power through painting composition. <ul style="list-style-type: none"> • Enhance their observation
	August	Theory- Indian Painting, Architecture and Sculpture <ol style="list-style-type: none"> 1. Ashoka Lion 	<ul style="list-style-type: none"> • Students will be able to learn about the history of art. • Understand the technical aspects of Indian sculpture Art. • history of our national emblem Ashok Chakra. • learn about old Indian culture

		<p>Capital.Mauryan period</p> <p>2. Nataraja,Chola Period.</p> <p>Practical- 1.Poster Design Social awareness</p>	<p>Practical-</p> <ul style="list-style-type: none"> • Learn the technique of poster making. • express his emotions through poster • Aware of social problems.
	September	<p>Theory- Indian painting,Sculpture and Architecture. Kailashnatha Temple (Ellora,Maharashtra) Taj- Mahal (Agra Uttar pradesh) Practical Poster Making (Social Awareness)</p>	<ul style="list-style-type: none"> • Students will be able to learn about the history of art. • Understand the technical aspects of Indian sculpture Art. • Learn about the cave art of India • learn about old Indian culture. • Gain knowledge of magnificent Indian Architecture. <p>Practical-</p> <ul style="list-style-type: none"> • Learn the technique of poster making. • express his emotions through poster • Aware of social problems.
	October	Revision and completion of entire work	--
	November	Revision and completion of entire work	--
	December	Pre board-1 Exams	--
	January	Pre board-2 Exams	--
	February	Remediation	--

Computer Applications	Month	Chapter	Learning Outcomes
			The learners will be able to:
	April	<p><u>Theory and Practical:</u></p> <p>Chapter 8- Programming in Python</p> <p><u>Theory:</u></p> <p>Chapter 1 - Internet Basics</p>	<ul style="list-style-type: none"> • Familiarize themselves with basic tools needed for writing a program. • Acquire the ability to write basic programs with Python. • Acquire the ability to use technical terms related to Internet and Network. • Acquire the ability to familiarize themselves with basic network concepts.

May	<p><u>Theory and Practical:</u></p> <p>Chapter8- Programming in Python</p> <p>Chapter9-Python Selection and Iteration Constructs.</p> <p><u>Theory:</u></p> <p>Chapter 1– Internet Basics(contd.)</p> <p>Chapter 2 - Internet and services</p>	<ul style="list-style-type: none"> · Familiarize themselves with advanced programming skills including: <ul style="list-style-type: none"> o Decision Construct o Range () function · Acquire the ability to write programs using decision construct in Python. · Acquire the ability to familiarize themselves with creating and sending e-mails with/without attachments.
July	<p><u>Theory and Practical:</u></p> <p>Chapter8- Programming in Python(revision)</p> <p>Chapter9-Python Selection and Iteration Constructs.(revision)</p> <p>Chapter 3 –Basic HTML Elements</p> <p><u>Theory:</u></p> <p>Chapter 2 - Internet and services(Review)</p>	<ul style="list-style-type: none"> · Familiarize themselves with advanced programming skills including: <ul style="list-style-type: none"> o Iterative Construct- <ol style="list-style-type: none"> 1. FOR loop 2. WHILE loop · Acquire the ability to write programs using iterative construct in Python. · Acquire the ability to identify the basic components of a web page · Acquire the ability to familiarize themselves with basic internet protocols to understand the working of the WWW.

August	<u>Theory and Practical:</u> Chapter3 –Basic HTML Elements	<ul style="list-style-type: none"> Acquire the ability to create a simple web page
September	<u>Theory and Practical:</u> Chapter 4-HTML- Image, links and Tables	<ul style="list-style-type: none"> Acquire the ability to embed images, audio and basic table in an HTML page
October	<u>Theory and Practical:</u> Chapter 4-HTML- Image, links and Tables(contd.) Chapter 5- Cascading Style Sheets(CSS) <u>Theory</u> Chapter-6- Cyber Ethics	<ul style="list-style-type: none"> Acquire the ability to embed images, audio , hyperlinks and table with merged components (rows and columns) in an HTML page Acquire the ability to use style sheets to beautify the web pages. Acquire the ability to follow basic cyber ethics
November	<u>Theory</u> Chapter 6- Cyber Ethics(contd.) <u>Practical:</u> Revision of HTML,CSS	<ul style="list-style-type: none"> Acquire the ability to understand the cybercrimes and frauds and follow basic cyber ethics to ensure safety. Acquire the ability to Interface a web site with a web server and record the details of a user's request.

December	PRE Board I	<ul style="list-style-type: none"> · Acquire the ability to understand the questions, apply the understanding and write meaningful answers. · Acquire the ability to understand the questions, apply the understanding and create HTML pages & Python programs as per given instructions.
January	PRE Board II	<ul style="list-style-type: none"> · Acquire the ability to understand the questions, apply the understanding and write meaningful answers. · Acquire the ability to understand the questions, apply the understanding and create HTML pages & Python programs as per given instructions.
February	Revision & Board Practicals	<ul style="list-style-type: none"> · Acquire the ability to understand the questions, apply the understanding and write meaningful answers. · Acquire the ability to understand the questions, apply the understanding and create HTML pages & Python programs as per given instructions.

Home Science	Month	Chapter	Learning Outcomes The learners will be able to:
	April	HUMAN GROWTH & DEVELOPMENT	<ul style="list-style-type: none"> ● Define play, understand the role of play in the growth & development of children, elaborate types of play, select play material for children. ● List features of physical & motor development, highlight social & emotional development, describe language & cognitive development during early and middle childhood. ● Define the term Adolescence, identify the physical

			features of girls & boys, list the motor & social characteristics, Recognize the language & cognitive abilities of adolescents.
	May	FOOD & PERSONAL HYGIENE	<p>List the Principles of hygienic handling and serving of food.</p> <ul style="list-style-type: none"> ● Maintain Hygiene in kitchen ● Adopt Personal hygiene of food handler ● Practice Hygiene during food storage
	July	MANAGEMENT OF RESOURCES: Time, Energy	<ul style="list-style-type: none"> ● Time Management - Definition & Importance Prepare a Time plan considering all factors affecting it ● Appreciate the significance of Energy Management, its definition and Importance ● Explain various types of fatigue. ● Suggest various ways of work Simplification.
	August	MEAL PLANNING	<ul style="list-style-type: none"> ● Understand the Concept of Meal Planning ● Enumerate Factors affecting meal planning-age, sex, climate, occupation, food items, number of family members, occasion, availability of food, family traditions, likes and dislikes ● List the Basic food groups(ICMR) ● Understand the use of food groups in planning diet for self & family
	September	FOOD SAFETY & CONSUMER EDUCATION	<ul style="list-style-type: none"> ● Understand Problems faced by consumers: price variation, poor quality, Faulty weights and measures, non-availability of goods, misleading information,lack of standardized products ● Define Food adulteration, indicate the common adulterants & highlight their harmful effects on human health. ● Understand Food Safety Standards- FSSAI(2006)
	October	FOOD SAFETY & CONSUMER EDUCATION	<ul style="list-style-type: none"> ● Understand Problems faced by consumers: price variation, poor quality, Faulty weights and measures, non-availability of goods, misleading information,lack of standardized products ● Define Food adulteration, indicate common adulterants & highlight their harmful effects on human health. ● Understand Food Safety Standards-FSSAI(2006)
	November	CARE &	<ul style="list-style-type: none"> ● List Cleaning and finishing agents used in routine

	mber	MAINTENANCE OF FABRIC & APPAREL	care of clothes. <ul style="list-style-type: none"> ● Explain the principles of Stain removal ● Elaborate the procedure for Storage of cotton, silk, wool and synthetics
	December	Pre board-1 Exams	Unit I : Human growth & development II Unit II : Management of Resources : Time, Energy Unit III : Food & Personal Hygiene Unit IV : Meal Planning Unit V : Food Safety and Consumer Education Unit VI : Care and Maintenance of Fabrics and Apparel
	January	Pre board-2 Exams	Unit I : Human growth & development II Unit II : Management of Resources : Time, Energy Unit III : Food & Personal Hygiene Unit IV : Meal Planning Unit V : Food Safety and Consumer Education Unit VI : Care and Maintenance of Fabrics and Apparel
	February	Remediation	Unit I : Human growth & development II Unit II : Management of Resources : Time, Energy Unit III : Food & Personal Hygiene Unit IV : Meal Planning Unit V : Food Safety and Consumer Education Unit VI : Care and Maintenance of Fabrics and Apparel

Elements of Business Studies	Month	Chapter	Learning Outcomes The learners will be able to:
	April	1. Joint Stock Company (JSC)	<ul style="list-style-type: none"> ● define the concept of Joint Stock Companies ● explain the organs of joint stock companies ● give the characteristics, merits and demerits of joint stock company ● explain the liquidation of joint stock company
	May	2. Private and Public Limited Company 3. Multinational Companies	<ul style="list-style-type: none"> ● explain the concept of MNCs, private and public limited companies ● give characteristics, merits and demerits of MNCs, private and public limited companies ● compare and contrast of public and private limited companies

July	Sources of Business Finance	<ul style="list-style-type: none"> ● compare and contrast of long term and short term source of finance ● give characteristics, merits and demerits of borrowed and ownership finance ● give examples long term and short term source of finance ● compare and contrast borrowed and ownership finance ● explain the concept of equity share, debentures, preference shares, retained learning ● compare and contrast debentures and shares
August	Communication in Business	<ul style="list-style-type: none"> ● explain the concept of communication in business ● explain the elements of communication ● compare and contrast verbal and non-verbal communication ● give the means of communications in business ● explain the characteristics, merits and demerits of letters, e-mail, video conferencing, telephonic communication ● compare and contrast business letters, e-mail, video conferencing, telephonic communication
September	Selling and Distribution a) concept of purchase and sale b) Types - cash, credit, hire purchase system and Installment Payment System	<ul style="list-style-type: none"> ● explain the concept of selling and distribution ● explain the concept of purchase and sale ● give the characteristics of sales and purchase ● state the activities in selling product ● give and explain the methods of payment ● give mode of purchase ● compare and contrast deferred installment plan and hire purchase
October	Large Scale Retail	<ul style="list-style-type: none"> ● explain the meaning of Large Scale Retail ● Identify/explain the different types of retail trade - Itinerant Retailing, fixed shop Retailing ● enlist the various types of large scale retail trade ● compare and contrast various forms of large-scale retail trades - departmental store, multiples shops, super bazar ● give meaning, characteristics merits and demerits of departmental stores, multiples shops, super bazar ● explain the meaning and types of non- store retailing
November	Personal selling and Sale	<ul style="list-style-type: none"> ● explain the meaning of personal selling and

		Promotion	<p>sale promotion</p> <ul style="list-style-type: none"> ● state the objectives of sale promotion and personal selling ● give the importance of sale promotion and personal selling in business ● explain the essential elements personal selling and sales promotion ● explain the techniques of personal selling and sale promotion
	December	Pre board-1 Exams	<ul style="list-style-type: none"> - Joint - Stock Company - Multinational Corporation - Private and Public Limited Companies - Business Finance - Communication in Business - Selling and Distribution - Large Retail Trade - Personal selling and sale promotion
	January	Pre board-2 Exams	<ul style="list-style-type: none"> - Joint - Stock Company - Multinational Corporation - Private and Public Limited Companies - Business Finance - Communication in Business - Selling and Distribution - Large Retail Trade - Personal selling and sale promotion
	February	Remediation	<ul style="list-style-type: none"> - Joint - Stock Company - Multinational Corporation - Private and Public Limited Companies - Business Finance - Communication in Business - Selling and Distribution - Large Retail Trade - Personal selling and sale promotion