



**Semester Overview 2021 -2022**

Class: 10		March 2021 - July 2021
Subject	Name of Units/Chapter	Skills
ENGLISH	<p><b><u>MERCHANT OF VENICE:</u></b>                      Act III, Scene 2                      Act III, Scene 3                      Act III, Scene 4                      Act III, Scene 5                      Act IV, Scene 1</p> <p><b><u>SHORT STORIES :</u></b>  <b>Short Story:</b> Chief Seattle's Speech  <b>Short Story:</b> My Greatest Olympic Prize  <b>Short Story:</b> All Summer in a Day  <b>Short Story:</b> The Little Match Girl</p> <p><b><u>POEMS:</u></b>  <b>Poem:</b> Abou Ben Adhem  <b>Poem:</b> Nine Gold Medals</p>	<p><b>Reading and viewing:</b></p> <ul style="list-style-type: none"> <li>• Read fluently and demonstrate comprehension and interpretation of a range of grade-appropriate literary texts, writing techniques and specialized language, including literature from modern and ancient cultures, short stories, novels, non-fiction and instructional material, reports and articles, advertising and promotional materials, authentic texts, poems and plays in a variety of forms</li> <li>• Select and use various strategies before reading and viewing to develop understanding of text, including setting a purpose, accessing prior knowledge to make and share connections, making predictions, asking questions, previewing texts</li> <li>• Select and use various strategies during reading and viewing to construct, monitor, and confirm meaning, including predicting, making connections, asking and answering questions, making inferences and drawing conclusions, figuring out unknown words, reading selectively, determining the importance of</li> </ul>

		<p>ideas/events, summarizing and synthesizing, identifying facts, opinions and writers'/narrator's/characters' bias</p> <ul style="list-style-type: none"><li>• Select and use various strategies <i>after reading</i> and viewing to confirm and extend meaning, including making inferences and drawing conclusions, reflecting and responding, using graphic organizers to record information and summarizing and synthesizing</li><li>• Identify how structures and features of text work to develop meaning, including form, function, and genre of text (e.g., brochure about smoking to inform students; genre is persuasive) 'text features' (e.g., copyright, table of contents, headings, index, glossary, diagrams, sidebars, hyperlink, pull-quotes) literary elements (e.g., characterization, mood, setting, viewpoint, foreshadowing, conflict, protagonist, antagonist, theme, descriptions) non-fiction elements (e.g., topic sentence, development of ideas with supporting details, central idea, evidence or example, explanation) literary devices (e.g., imagery, onomatopoeia, simile, metaphor, symbolism, personification and other figures of speech) idiomatic expressions</li></ul> <p><b>Writing:</b></p> <ul style="list-style-type: none"><li>• Write a variety of clear personal, formal, instructional, persuasive, argumentative, imaginative and visual</li></ul>
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		<p>representations that demonstrate connections to experiences, ideas, opinions and visual clues</p> <ul style="list-style-type: none"><li>• Clearly develop ideas, mood and setting by using effective supporting details, explanations, analysis, insights and sensory details</li><li>• Demonstrate sentence fluency through strong, well-constructed sentences that demonstrate a variety of lengths and patterns, with an increasingly fluid style, rhythm and flow</li><li>• Demonstrate effective word choice through the use of precise nouns, verbs, adjectives and modifiers, purposeful use of figurative and sensory language with increasing sophistication</li><li>• Demonstrate the effective use of tone and voice (first person, second person, omniscient narrator etc.) to suit the purpose and audience</li><li>• Use a format and/or organisation that is meaningful, logical, effective and appropriate to the purpose and audience with an appropriate beginning (e.g. salutation in a letter, address, indentation etc.) middle (subject line, paragraphing etc.) and ending (closing etc.)</li><li>• Demonstrate effective control over all aspects of coherence and cohesion (cohesive devices, referencing, substitution, sequence markers, establishing logical relationships, conjunctions, connectives etc.)</li><li>• Select and use various strategies</li></ul>
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		<p>before writing and representing, including establishing a purpose, identifying an audience, genre, and form and generating, selecting, developing, and organizing ideas from personal interest, prompts, texts, and/or research</p> <ul style="list-style-type: none"><li>• Select and use various strategies during writing and representing to express and refine thoughts, including analysing models of literature accessing multiple sources of information consulting reference materials considering and applying feedback from discussions to revise ideas, organization, voice, word choice, and sentence fluency revising and editing</li><li>• Select and use various strategies after writing and representing to improve their work, including checking their work against established criteria revising to enhance writing traits (e.g., ideas, sentence fluency, word choice, voice, organization) editing for conventions (e.g., grammar and usage, capitalization, punctuation, spelling)</li><li>• Use writing and representing to critique, express personal responses and relevant opinions, and respond to experiences and texts Write short pieces of continuous prose in response to questions by developing explanations, analysing the relationships in ideas and information, making generalizations, speculating about alternative viewpoints, providing supporting evidence and presenting</li></ul>
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		<p>personal opinions</p> <ul style="list-style-type: none"><li>• Use the features and conventions of language accurately to express meaning in writing and representing, including complete simple, compound, and complex sentences subordinate and independent clauses correct subject-verb and pronoun agreement in sentences with compound subjects correct and effective use of punctuation conventional Canadian spelling for familiar and frequently used words spelling unfamiliar words by applying strategies (e.g., phonic knowledge, use of common spelling patterns, dictionaries, thesaurus) legible writing appropriate to context and purpose</li></ul> <p><b>Grammar and Vocabulary:</b></p> <ul style="list-style-type: none"><li>• Identify and explain how syntactic and structural features convey meaning</li><li>• Use tenses (simple, continuous, perfect and perfect continuous) accurately to convey time and sequence of events</li><li>• Use pronouns, referencing and substitution accurately to indicate clear relationships within and between sentence</li><li>• Identify and use a wide range of simple, compound and complex sentences with flexibility and accuracy to suit the purpose and format of the text</li></ul>
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		<ul style="list-style-type: none"> <li>● Explore and use varied sentence structures to convey the same meaning</li> <li>● Use punctuation and other structural clues to infer and convey meaning</li> <li>● Select and use words (verbs, noun phrases, adjectives and adjective phrases, adverbs, modifiers) to convey precise meaning, nuances, intensity, mood, attitude, register, tone and opinion</li> <li>● Identify and use synonyms and paraphrase effectively</li> <li>● Identify and record how descriptive language is used in texts to convey meaning</li> <li>● Use a wide range of vocabulary, including phrasal verbs and idiomatic expressions fluently and flexibly to convey precise meaning</li> <li>● Demonstrate an awareness of style and collocation</li> <li>● Demonstrate full control over spelling and word formation</li> </ul>
<p><b>HINDI</b></p>	<p><b>Chapter 6:</b> Soor ke pad (Sahitya Sagar Padya bhag)</p> <p><b>Chapter 7:</b> Vinay ke pad (Sahitya Sagar Padya bhag)</p> <p><b>Chapter 5:</b> Chalna hamara kaam he</p> <p><b>Chapter 9:</b> bhede aur bhediye</p>	<ul style="list-style-type: none"> <li>● Reading and Comprehending</li> <li>● Dictionary skills</li> <li>● Listen critically to understand</li> <li>● Asking questions to clarify meaning</li> <li>● Discussion on main points of the story</li> <li>● Writing short notes</li> <li>● Develop understanding for different words</li> <li>● Paragraph writing</li> <li>● Understanding poetry</li> <li>● Essay writing</li> <li>● Understanding the gist of poetry</li> <li>● Understanding characters</li> <li>● Descriptive writing</li> </ul>

	<p><b>Chapter 10:</b> Do kalakar</p> <p><b>Chapter 6:</b> Bade Ghar Ki Beti</p>	<ul style="list-style-type: none"> <li>● Picture writing</li> <li>● Writing character sketch</li> <li>● Writing long answers</li> <li>● Writing central idea</li> <li>● Logical understanding</li> <li>● Understanding proverbs</li> <li>● Story writing</li> <li>● Letter writing</li> <li>● Unseen passage</li> <li>● Sentence structure</li> <li>● Synonyms</li> <li>● Antonyms</li> <li>● Noun and Pronoun</li> <li>● Adjectives</li> <li>● Proverbs and Idioms</li> <li>● Tenses</li> <li>● Correct use of karak chinha</li> <li>● Reasoning, recalling</li> </ul>
<p><b>MATHS</b></p>	<p><b>Unit 1:</b> <b>Commercial Mathematics</b> <b>Chapter 1:</b> GST <b>Chapter 2:</b> Banking</p> <p><b>Unit 2:</b> <b>Algebra</b> <b>Chapter 4:</b> Linear equations in one variable <b>Chapter 5:</b> Quadratic Equations <b>Chapter 6:</b> Ratio and Proportion <b>Chapter 7:</b> Factor Theorem-Factorization <b>Chapter 8:</b> Matrices</p>	<ul style="list-style-type: none"> <li>● Calculate tax including problems involving discounts, list price, profit, loss and cost price</li> <li>● Calculate interest and maturity value of recurring deposit account using formula</li> <li>● Solve Linear inequation algebraically and writing the solution in set notation form</li> <li>● Represent the solution on the number line</li> <li>● Solve Quadratic equation by</li> <li>● Factorisation, using formula</li> <li>● Solve real life problems using this tool</li> <li>● Find the nature of the roots using discriminant</li> <li>● Apply the properties like componendo, dividendo, alternendo, invertendo and their combinations to solve problems</li> </ul>

	<p><b>Unit 5:</b> Trigonometry <b>Chapter 16:</b> Trigonometric Identities <b>Chapter 17:</b> Heights and distances</p> <p><b>Unit 6:</b> Statistics <b>Chapter 18:</b> Arithmetic Mean, Median, Mode and Quartiles <b>Chapter 19:</b> Histogram and Ogive <b>Chapter 20:</b> Probability</p>	<ul style="list-style-type: none"><li>• Solve direct applications on proportions only</li><li>• Understand Factor/ Remainder Theorem</li><li>• Apply Factor/ Remainder Theorem to factorise an algebraic expression</li><li>• Explain different types of matrices</li><li>• Perform addition/subtraction/multiplication operations on matrices</li> <li>• Solve/Prove simple algebraic trigonometric expressions using identities</li><li>• Solve 2-D problems involving angles of elevation and depression using/without using trigonometric tables.</li> <li>• Effectively display the information in data sets graphically in the form of a histogram and less than Ogive</li><li>• Describe different ways to represent a data like mean, mode and median</li><li>• Describe/apply the formulas to calculate mean, mode and median</li><li>• Find mode from histogram and quartiles and median from ogive</li><li>• Understand the difference between a certain and random event</li><li>• Solve simple problems on single events using the formula of probability</li></ul>
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<p><b>PHYSICS</b></p>	<p><b>Unit 1 :</b>  <b>Force, Work, Power and Energy</b>  <b>Chapter 1: Force</b>  <b>Chapter 2: Work, Energy and Power</b>  <b>Chapter 3: Machines</b></p> <p><b>Unit 4: Electricity and Magnetism</b>  <b>Chapter 9: Household Circuits</b></p>	<ul style="list-style-type: none"> <li>• Explain turning effect of force and apply it in real life applications</li> <li>• Verify the principle of moment of force</li> <li>• Find centre of gravity of regular/irregular bodies</li> <li>• Observe uniform circular motion in surrounding</li> <li>• Solve numerical problems on work, power and energy</li> <li>• Describe different forms of energy in nature</li> <li>• Describe machines as force multiplier, in changing direction of the efforts</li> <li>• Calculate mechanical advantage and velocity ratio of different types of simple machines</li> <li>• Describe different types of pulley systems</li> <li>• Explain electrical energy and its measurement, electrical power</li> <li>• Calculate power rating of common appliances, household consumption of electrical energy</li> <li>• Solve simple numerical problems</li> </ul>
<p><b>CHEMISTRY</b></p>	<p><b>Chapter 1:</b>                  Periodic table and variations of properties</p>	<ul style="list-style-type: none"> <li>• Develop scientific method of thinking</li> <li>• Develop the ability to synthesize, separate and characterize elements</li> <li>• Develop the ability to accurately interpret numerical data</li> <li>• Differentiate between periodic properties and variation of properties in a periodic table</li> <li>• Compare relation between atomic number for light elements and atomic</li> </ul>

	<p><b>Chapter 2:</b> Chemical bonding</p> <p><b>Chapter 3:</b> Acid, Bases and salts</p> <p><b>Chapter 4:</b> Analytic Chemistry</p> <p><b>Chapter 5:</b></p>	<p>mass for light elements</p> <ul style="list-style-type: none"><li>• Understand new terms</li><li>• Draw structure of various compounds</li><li>• Compare electrovalent, covalent and coordinate bonds</li><li>• Understand characteristic properties of electrovalent and covalent compounds</li><li>• Differentiate between acids and bases given a chemical formula or property</li><li>• Compare and contrast acids and bases in terms of pH, electrolytes, hydrogen ion concentration, taste, and reactivity with metals</li><li>• Identify pH range of a solution based on indicator color (Table M)</li><li>• Recognize alternate acid-base theories (acids are proton donors, bases are proton acceptors)</li><li>• Explain the relationship between pH and hydrogen ion concentration</li><li>• Complete neutralization equations given reactants</li><li>• Identify and prepare different kinds of acids, bases and salts given neutralization equations</li><li>• Identify different types of salts</li><li>• Perform chemical tests to identify cations and anions.</li><li>• Solve problems based on chemical reactions</li><li>• Develop the ability to accurately interpret numerical data</li></ul>
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	<p><b>Chapter 10:</b> The Nervous System</p> <p><b>Chapter 11:</b> Sense organs</p> <p><b>Chapter 2:</b> Structure of Chromosomes, Cell Cycle and Cell Division</p> <p><b>Chapter 3:</b> Genetics- Some Basic Fundamentals</p>	<p>relation to the composition of blood plasma and urine formed</p> <ul style="list-style-type: none"><li>• Identify and label various parts of the external structure of the brain and state their functions</li><li>• Diagrammatically explain reflex arc, showing the pathway from receptor to effector</li><li>• Differentiate between acquired and natural reflex</li> <li>• Label the diagrams of eye and ear and state functions of various parts</li><li>• Explain the course of perception of sound in human ear</li><li>• Appreciate the role of ear in maintaining balance</li> <li>• List changes occurring in cell during cell cycle -Inter phase( G1, S, G2) and M phase</li><li>• Sequence different stages of mitosis</li><li>• Draw diagrams to show changes occurring during different stages of mitosis</li><li>• Explain meiosis as a reduction division</li><li>• Explain the Significance of mitosis and meiosis</li><li>• Differentiate between mitotic and meiotic division</li><li>• Explain basic structure of chromosome</li><li>• Define and appropriately use terms such as chromatin, chromatid, gene structure of DNA and centromere</li></ul>
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<p><b>HISTORY</b></p>	<p><b>Unit 1:</b> The Indian National Movement (1857-1917)</p> <ol style="list-style-type: none"> <li>1. The First War of Independence (1857)</li> <li>2. Factors leading to the Growth of Nationalism and Foundation of the Indian National Congress</li> <li>3. Objective and Methods of Struggle of the Early Nationalists</li> <li>4. Second Phase of the Indian National Movement: Partition of Bengal and other developments</li> <li>5. Factors leading to the Formation of the Muslim League</li> </ol> <p><b>Unit 2:</b> Mass Phase of the</p>	<ul style="list-style-type: none"> <li>• To find out various causes of Revolt of 1857</li> <li>• To know about various events of the war</li> <li>• Analysis the nature, the result and impact of the war</li> <li>• Discuss the importance of social reform movements during the 19<sup>th</sup> and 20<sup>th</sup> century raising awareness about prevalent social practices.</li> <li>• Analyze the impact of the reform movement on the Indian society.</li> <li>• Define nationalism and identify factors giving rise to nationalism</li> <li>• State the objective of the Indian National Congress</li> <li>• Discuss and comprehend the demands of the moderates</li> <li>• Appreciate the ideas of Nationalism and Swadeshi</li> <li>• Identify the significance of the Home Role Movement</li> <li>• Appreciate Gandhiji's contribution to the freedom struggle</li> </ul>

	<p><b>National Movement (1915-1947)</b></p> <ol style="list-style-type: none"> <li>1. National Movement: 1919-1934 (Non-Cooperation Movement, Civil Disobedience Movement and other Forces at Work)</li> <li>2. The Cripps Mission and the Quit India Movement</li> <li>3. Subhash Chandra Bose, Forward Block and the Indian National Army (INA)</li> <li>4. Independence and the Partition of India</li> </ol>	<ul style="list-style-type: none"> <li>• recognize the impact of the Rowlatt Act and the Jalianwala Bagh Massacre on the freedom movement</li> <li>• Describe the Non-Cooperation Movement, the Civil disobedience Movement, the demand for Purna Swaraj and the Quit India Movement</li> <li>• Discuss the impact of the mass movements.</li> <li>• Analyze the objectives of Forward Bloc and the INA</li> <li>• Examine the various clauses of the Independence Act</li> </ul>
<p><b>CIVICS</b></p>	<p><b>Unit 1:</b>                  The Union Legislature</p> <ol style="list-style-type: none"> <li>1. The Union Parliament</li> </ol> <p><b>Unit 2:</b>                  The Union Executive</p> <ol style="list-style-type: none"> <li>1. The Union Executive: The President and the Vice-President</li> <li>2. The Union Executive : The Prime Minister, The Union Cabinet and the Council of Ministers.</li> </ol>	<ul style="list-style-type: none"> <li>• To understand the importance of the legislature</li> <li>• To find the functions and powers of the Parliament of India</li> <li>• To know the law making procedure;</li> <li>• To analyze how the Parliament controls the executive; and how the Parliament regulates itself</li> <li>• Discuss the qualifications, tenure, powers and functions and position of the President of India</li> <li>• Discuss the powers and functions of the Vice-President India</li> <li>• Describe the Union Council of Ministers, its composition and powers and functions</li> <li>• Explain the powers and functions of the Prime Minister of India</li> </ul>

<p><b>GEOGRAPHY</b></p>	<p><b>Part I- Map Work</b>  <b>Chapter 1:</b>                  Interpretation of Topographical Maps</p> <p><b>Chapter 2 :</b>                  Location, Extent and Physical Features (Map only)</p> <p><b>Part II- Geography of India</b>  <b>Chapter 3:</b>                  The Climate of India</p> <p><b>Chapter 4:</b>                  Soils in India</p> <p><b>Chapter 6:</b> Natural</p>	<ul style="list-style-type: none"> <li>• Locate features with the help of a four figure or a six figure grid reference.</li> <li>• Interpret the conventional symbols used on a topographical survey of India map</li> <li>• Identify various natural and man-made features</li> <li>• Identify different types of scale given on the map</li> <li>• Measure distances and calculating area using the scale given therein</li> <li>• Mark directions between different locations, using eight cardinal points.</li> <li>• Identify settlement pattern, drainage pattern</li>   <li>• Locate, mark and name the geographical elements on the outline map of India</li>   <li>• Analyse various factors affecting the climate of India</li> <li>• Compare different seasons of India</li> <li>• Demonstrate mechanism of monsoon with the help of map</li>   <li>• Categorize types of soil based on its colour, texture, presence of minerals</li> <li>• Relate different horizon of the soil with its fertility</li> <li>• Assess types, causes and effects of soil erosion</li>   <li>• Explain different types of forests</li> <li>• Describe the importance of forests</li> </ul>

	<p>Vegetation of India</p> <p><b>Chapter 7:</b> Water Resources</p> <p><b>Chapter 8:</b> Mineral Resources</p> <p><b>Chapter 9:</b> Conventional sources of energy, Non -conventional sources of energy</p>	<ul style="list-style-type: none"> <li>● Suggest different ways to conserve forest</li> <li>● Enlist different sources of freshwater</li> <li>● Differentiate between surface water and groundwater</li> <li>● Analyse the reason for conservation of water and conservation practices (rainwater harvesting and its importance)</li> <li>● Compare traditional and modern methods of irrigation</li> <li>● Types of minerals: uses and distribution</li> <li>● Conventional and non-conventional sources of energy: features, distribution, advantages and disadvantages.</li> </ul>
<p><b>COMPUTER APPLICATIONS</b></p>	<p><b>Chapter 1:</b> Introduction to Object Oriented Programming concepts</p> <p><b>Chapter 2:</b> Values and data types in java</p> <p><b>Chapter 3:</b> Operators and Expressions in Java</p>	<ul style="list-style-type: none"> <li>● Principles of Object Oriented Programming</li> <li>● Features and working of java</li> <li>● Libraries and keywords used in java</li> <li>● Understanding tokens and data types used in java</li> <li>● Type conversion and precedence of operators</li> <li>● Types of operators</li> <li>● Packages used for mathematical functions</li> </ul>



	<p><b>Chapter 4:</b> Conditional constructs in Java</p> <p><b>Chapter 5:</b> Iteration through loops</p> <p><b>Chapter 6:</b> User defined function</p> <p><b>Chapter 7:</b> Array</p>	<ul style="list-style-type: none"><li>• Input the data at command line by two methods</li><li>• Decision making statements- if else and switch case</li><li>• Concept of fall through, break statement and continue statement</li><li>• Nested statements</li><li>• Scope of variable, testing and debugging</li><li>• Types of errors that can occur in programming</li><li>• Fixed iterations- for loops and nested for loops</li><li>• Unfixed iterations- while loop and do-while loops</li><li>• Use of break and continue statements in while</li><li>• Creating User defined function</li><li>• Types of functions</li><li>• Pass by value and Pass by reference</li><li>• Actual and Formal parameters</li><li>• Pure function and Impure function</li><li>• Function Overloading.</li><li>• Recursive function</li><li>• Definition of an array.</li><li>• Types of array</li><li>• Declaration, Initialization and accepting data from a single dimensional array.</li><li>• Accessing the elements of single dimensional array</li></ul>
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<p><b>ART</b></p>	<p><b>Paper 1: Still Life</b></p> <ul style="list-style-type: none"><li>● 3D shapes</li><li>● Object collected from campus</li><li>● Different objects composition</li></ul> <p><b>Paper 4: Applied Art</b></p> <ul style="list-style-type: none"><li>● Poster making</li><li>● Book jacket designing</li><li>● Advert making</li><li>● Logo designing and its stationary</li><li>● Card design</li><li>● Wrapper design</li></ul>	<ul style="list-style-type: none"><li>● Composition</li><li>● Perspective</li><li>● Space and formation</li><li>● Proportion</li><li>● Imagination</li><li>● Visualization</li><li>● Association of ideas</li><li>● Creative and critical imagination</li><li>● Illustration</li><li>● Knowledge of mediums</li></ul>
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