



Semester Overview 2022-2023

Class: 10		March 2022 - July 2023
Subject	Name of Units/Chapter	Skills
ENGLISH	<p><u>MERCHANT OF VENICE:</u> Act III, Scene 2 Act III, Scene 3 Act III, Scene 4 Act III, Scene 5 Act IV, Scene 1</p> <p><u>SHORT STORIES :</u> Short Story: Chief Seattle's Speech Short Story: My Greatest Olympic Prize Short Story: All Summer in a Day Short Story: The Little Match Girl</p> <p><u>POEMS:</u> Poem: Abou Ben Adhem Poem: Nine Gold Medals</p>	<p>Reading and viewing:</p> <ul style="list-style-type: none"> • 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 • 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 • 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 ideas/events, summarizing and synthesizing, identifying facts, opinions and writers'/narrator's/characters' bias • Select and use various strategies after reading and viewing to confirm



		<p>and extend meaning, including making inferences and drawing conclusions, reflecting and responding, using graphic organizers to record information and summarizing and synthesizing</p> <ul style="list-style-type: none">• 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 <p>Writing:</p> <ul style="list-style-type: none">• Write a variety of clear personal, formal, instructional, persuasive, argumentative, imaginative and visual representations that demonstrate connections to experiences, ideas, opinions and visual clues• Clearly develop ideas, mood and setting by using effective supporting details, explanations, analysis, insights and sensory details• Demonstrate sentence fluency through strong, well-constructed sentences that demonstrate a variety of lengths and patterns, with an increasingly fluid style, rhythm and flow
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		<p>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</p> <ul style="list-style-type: none">• 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 personal opinions• 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 <p>Grammar and Vocabulary:</p> <ul style="list-style-type: none">• Identify and explain how syntactic and structural features convey meaning• Use tenses (simple, continuous, perfect and perfect continuous) accurately to convey time and sequence of events
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		<ul style="list-style-type: none">• Use pronouns, referencing and substitution accurately to indicate clear relationships within and between sentence• 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• Explore and use varied sentence structures to convey the same meaning• Use punctuation and other structural clues to infer and convey meaning• 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• Identify and use synonyms and paraphrase effectively• Identify and record how descriptive language is used in texts to convey meaning• Use a wide range of vocabulary, including phrasal verbs and idiomatic expressions fluently and flexibly to convey precise meaning• Demonstrate an awareness of style and collocation• Demonstrate full control over spelling and word formation
HINDI	<p>(साहित्य सागर गद्य भाग)</p> <p>पाठ5: अपना अपना भाग्य पाठ 6: बड़े घर की बेटी पाठ 7: संदेह पाठ 8: भीड़ में खोया आदमी पाठ 9: भेड़िया और भेड़िया पाठ10: दो कलाकार</p> <p>(साहित्य सागर पद्य भाग)</p>	<ul style="list-style-type: none">• Reading and Comprehending• Dictionary skills• Listen critically to understand• Asking questions to clarify meaning• Discussion on main points of the story• Writing short notes• Develop understanding for different words• Paragraph writing• Understanding poetry• Essay writing

	<p>पाठ 5: मेघ आए पाठ 6: सूर के पद पाठ 7: विनय के पद पाठ 8: भिक्षुक पाठ 9: चलना हमारा काम है पाठ 10: मातृ मंदिर की ओर</p> <p>पत्र, निबंध, अपठित व व्याकरण</p>	<ul style="list-style-type: none"> ● Understanding the gist of poetry ● Understanding characters ● Descriptive writing ● Picture writing ● Writing character sketch ● Writing long answers ● Writing central idea ● Logical understanding ● Understanding proverbs ● Story writing ● Letter writing ● Unseen passage ● Sentence structure ● Synonyms ● Antonyms ● Noun and Pronoun ● Adjectives ● Proverbs and Idioms ● Tenses ● Correct use of karak chinha ● Reasoning, recalling
<p>MATHS</p>	<p>Unit 1: Commercial Mathematics Chapter 1: GST Chapter 2: Banking</p> <p>Unit 2: Algebra Chapter 4: Linear equations in one variable Chapter 5: Quadratic Equations Chapter 6: Ratio and Proportion Chapter 7: Factor Theorem-Factorization Chapter 8: Matrices</p>	<ul style="list-style-type: none"> ● Calculate tax including problems involving discounts, list price, profit, loss and cost price ● Calculate interest and maturity value of recurring deposit account using formula ● Solve Linear inequation algebraically and writing the solution in set notation form ● Represent the solution on the number line ● Solve Quadratic equation by Factorisation, using formula ● Solve real life problems using this tool ● Find the nature of the roots using discriminant ● Apply the properties like componendo, dividendo, alternendo, invertendo and their combinations to solve problems ● Solve direct applications on proportions only

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



	<p>Chapter 3: Acid, Bases and salts</p> <p>Chapter 4: Analytic Chemistry</p> <p>Chapter 5: Mole concept and Stoichiometry</p> <p>Chapter 6: Electrolysis</p>	<p>of electrovalent and covalent compounds</p> <ul style="list-style-type: none"> • Differentiate between acids and bases given a chemical formula or property • Compare and contrast acids and bases in terms of pH, electrolytes, hydrogen ion concentration, taste, and reactivity with metals • Identify pH range of a solution based on indicator color (Table M) • Recognize alternate acid-base theories (acids are proton donors, bases are proton acceptors) • Explain the relationship between pH and hydrogen ion concentration • Complete neutralization equations given reactants • Identify and prepare different kinds of acids, bases and salts given neutralization equations • Identify different types of salts <ul style="list-style-type: none"> • Perform chemical tests to identify cations and anions. • Solve problems based on chemical reactions <ul style="list-style-type: none"> • Develop the ability to accurately interpret numerical data <ul style="list-style-type: none"> • Understand new terms • Understand application of electrolysis
<p>BIOLOGY</p>	<p>Chapter 4: Absorption by roots-The processes involved</p>	<ul style="list-style-type: none"> • List down characteristics of roots which make them suitable for absorbing water, process of absorption • Draw structure of a full-grown root hair • Perform experiments to show the conduction of water through the xylem

	<p>Chapter 5: Transpiration</p> <p>Chapter 6: Photosynthesis- provider of food for all</p> <p>Chapter 7: Chemical Coordination in Plants</p> <p>Chapter 15: Population- The Increasing Numbers and Rising Problems</p>	<ul style="list-style-type: none">• Name causative forces for ascent of sap• Explain mechanism of stomatal transpiration through diagrams• Observe and list down adaptations in plants to reduce transpiration• Differentiate between transpiration, guttation and bleeding• Draw and label internal structure of chloroplast• Explain the mechanism of opening and closing of stomata• Write the balanced equation of photosynthesis• Reason out for calling phases of photosynthesis as photochemical and biosynthetic phase• Explain the changes taking place in light phase brief about changes in light independent phase• List down adaptations in plants for photosynthesis• Draw inferences from experiments with regard to factors essential for photosynthesis• Enlist various plant hormones• Relate the function to specific hormone in plants• Understand the cause and effect of different types of movements in plants• Enlist main reasons for sharp rise in human population in India and the world.• Define- demography, population density, birth rate, death rate and growth rate.• Create awareness about problems faced due to population explosion
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	<p>Chapter 16: Pollution- A rising Environmental Problem</p> <p>Chapter 8: The Circulatory System</p>	<ul style="list-style-type: none">● Suggest appropriate methods of population control including surgical methods● Give reasons and effects of air, water, soil, radiation and noise pollution● Explain the effects of pollution on climate, environment human health and other organisms● Understand Euro/ Bharat stage vehicular standards● Demonstrate responsibility towards control of pollution through his actions <ul style="list-style-type: none">● List Components of blood● Differentiate between blood, tissue fluid and lymph● Explain the adaptations in RBCs to increase their efficiency● Explain the process of blood coagulation● Differentiate between vein, artery and capillary● Explain the compatibility of ABO blood groups and Rh factor● Explain the physiology of blood circulation in human body● Identify systole and diastole phase through changes and diagrams● Name main blood vessels● Examine blood smear under a microscope
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<p>HISTORY</p>	<p>Unit 1: The Indian National Movement (1857-1917)</p> <ol style="list-style-type: none"> 1. The First War of Independence (1857) 2. Factors leading to the Growth of Nationalism and Foundation of the Indian National Congress 3. Objective and Methods of Struggle of the Early Nationalists 4. Second Phase of the Indian National Movement: Partition of Bengal and other developments 5. Factors leading to the Formation of the Muslim League <p>Unit 2: Mass Phase of the National Movement (1915-1947)</p> <ol style="list-style-type: none"> 1. National Movement: 1919-1934 (Non-Cooperation Movement, Civil Disobedience Movement and other Forces at Work) 2. The Cripps Mission and the Quit India Movement 3. Subhash Chandra Bose, Forward Bloc and the Indian National Army (INA) 4. Independence and the Partition of India 	<ul style="list-style-type: none"> ● To find out various causes of Revolt of 1857 ● To know about various events of the war ● Analysis the nature, the result and impact of the war ● Discuss the importance of social reform movements during the 19th and 20th century raising awareness about prevalent social practices. ● Analyze the impact of the reform movement on Indian society. ● Define nationalism and identify factors giving rise to nationalism ● State the objective of the Indian National Congress ● Discuss and comprehend the demands of the moderates ● Appreciate the ideas of Nationalism and Swadeshi ● Identify the significance of the Home Rule Movement <ul style="list-style-type: none"> ● Appreciate Gandhiji's contribution to the freedom struggle ● recognize the impact of the Rowlatt Act and the Jallianwala Bagh Massacre on the freedom movement ● Describe the Non-Cooperation Movement, the Civil disobedience Movement, the demand for Purna Swaraj and the Quit India Movement ● Discuss the impact of the mass movements. ● Analyze the objectives of Forward Bloc and the INA ● Examine the various clauses of the Independence Act
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<p>CIVICS</p>	<p>Unit 1: The Union Legislature 1. The Union Parliament</p> <p>Unit 2: The Union Executive 1. The Union Executive: The President and the Vice-President 2. The Union Executive : The Prime Minister, The Union Cabinet and the Council of Ministers.</p>	<ul style="list-style-type: none"> ● To understand the importance of the legislature ● To find the functions and powers of the Parliament of India ● To know the law making procedure; ● To analyze how the Parliament controls the executive; and how the Parliament regulates itself ● Discuss the qualifications, tenure, powers and functions and position of the President of India ● Discuss the powers and functions of the Vice-President India ● Describe the Union Council of Ministers, its composition and powers and functions ● Explain the powers and functions of the Prime Minister of India
<p>GEOGRAPHY</p>	<p>Part I- Map Work Chapter 1: Interpretation of Topographical Maps</p> <p>Chapter 2 : Location, Extent and Physical Features (Map only)</p>	<ul style="list-style-type: none"> ● Locate features with the help of a four figure or a six figure grid reference. ● Interpret the conventional symbols used on a topographical survey of India map ● Identify various natural and man-made features ● Identify different types of scale given on the map ● Measure distances and calculating area using the scale given therein ● Mark directions between different locations, using eight cardinal points. ● Identify settlement pattern, drainage pattern ● Locate, mark and name the geographical elements on the outline map of India ● Analyse various factors affecting the climate of India

	<p>Part II- Geography of India Chapter 3: The Climate of India</p> <p>Chapter 4: Soils in India</p> <p>Chapter 6: Natural Vegetation of India</p> <p>Chapter 7: Water Resources</p> <p>Chapter 8: Mineral Resources</p> <p>Chapter 9: Conventional sources of energy, Non -conventional sources of energy</p>	<ul style="list-style-type: none"> ● Compare different seasons of India ● Demonstrate mechanism of monsoon with the help of map ● Categorize types of soil based on its colour, texture, presence of minerals ● Relate different horizon of the soil with its fertility ● Assess types, causes and effects of soil erosion ● Explain different types of forests ● Describe the importance of forests ● Suggest different ways to conserve forest ● Enlist different sources of freshwater ● Differentiate between surface water and groundwater ● Analyse the reason for conservation of water and conservation practices (rainwater harvesting and its importance) ● Compare traditional and modern methods of irrigation ● Types of minerals: uses and distribution ● Conventional and non-conventional sources of energy: features, distribution, advantages and disadvantages.
<p>COMPUTER APPLICATIONS</p>	<p>Chapter 1: Introduction to Object Oriented Programming concep</p> <p>Elementary Concept of Objects and Classes</p>	<ul style="list-style-type: none"> ● Principles of Object Oriented Programming ● Features and working of java ● Libraries and keywords used in java ● Modelling entities and their behaviour by objects,



	<p>Chapter 6: User defined function</p> <p>Array</p> <p>String handling</p> <p>Constructors</p> <p>Library classes</p> <p>Encapsulation</p>	<ul style="list-style-type: none"> ● A class as a specification for objects and as an object factory, computation as message passing/method calls between objects (many examples should be done to illustrate this). ● Objects encapsulate state (attributes) and have behaviour (methods). Class as a user defined data type ● Creating User defined function ● Types of functions ● Pass by value and Pass by reference ● Actual and Formal parameters ● Pure function and Impure function ● Function Overloading. ● Recursive function ● Definition of an array, types of arrays, declaration, initialization ● Accepting data of single and double dimensional arrays, accessing the elements of single dimensional and double dimensional arrays ● String class, methods of String class, implementation of String class methods, String array ● Definition of Constructor, characteristics, types of constructors, ● use of constructors, constructor overloading ● Introduction to wrapper classes, methods of wrapper class and their usage with respect to numeric and character data types. Autoboxing and Unboxing in wrapper classes ● Access specifiers and its scope and visibility
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<p>ART</p>	<p>Art Paper 1: Still Life</p> <ul style="list-style-type: none"> ● 3D shapes ● Object collected from campus ● Different objects composition - natural and manmade <p>Art Paper 4: Applied Art</p> <ul style="list-style-type: none"> ● Poster making ● Book jacket designing ● Advert making ● Logo designing and its stationary ● Card design ● Wrapper design 	<ul style="list-style-type: none"> ● To acquire a knowledge of artistic terms, facts, concepts, theories and principles in drawing and painting, i.e. imagination, creativity, expression, aesthetic sense, organisation, observation and interest. ● To develop an interest in the world of art. ● To develop an artistic attitude and values through the study of art. ● To acquire skills in observations, handling tools and drawing illustrations. ● Based on the art papers offered at school, the above mentioned points will focus on the following artistic skills and techniques: <ul style="list-style-type: none"> ○ Composition ○ Perspective ○ Space and formation ○ Proportion ○ Association of ideas ○ Creative and critical thinking ○ Illustration ○ Imaginative expression ○ Quality of pattern, line and materials. ○ Skill in the use of tools and materials. ○ Use of colour.
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