

Semester Overview 2021 -2022

Class: 10		September 2021 - February 2022
Subject	Name of Units	Skills
ENGLISH	<p><u>MERCHANT OF VENICE:</u> Act IV, Scene 2 Act V, Scene 1</p> <p><u>Short Stories:</u> Short Stories : The Blue Bead</p> <p><u>Poems:</u> Poem: The Patriot Poem: I Know why the Caged Bird Sings</p> <p>Revision of Short Stories, Poems, Drama & Language</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, featuring some complexity in theme, 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 • Demonstrate comprehension of visual texts with specialized features and complex ideas (e.g., visual components of media such as magazines, newspapers, web sites, reference books, graphic novels, broadcast media, videos, advertising and promotional materials) • Select and use various strategies <i>before reading</i> and viewing to develop understanding of text, including setting a purpose,

		<p>accessing prior knowledge to make and share connections, making predictions, asking questions, previewing texts</p> <ul style="list-style-type: none">• Select and use various strategies <i>during reading</i> 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 <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 Respond to selections they read or view, by expressing opinions and making judgments supported by reasons, explanations, and evidence, explaining connections (text-to-self, text-to-text, and text-to-world), identifying personally meaningful selections, passages, and images and comparing various viewpoints, analyzing descriptive texts to infer meaning, opinion and attitude
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		<p>and synthesizing new ideas</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
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		<p>sentences that demonstrate a variety of lengths and patterns, with an increasingly fluid style, rhythm and flow</p> <ul style="list-style-type: none">• Demonstrate effective word choice through the use of precise nouns, verbs, adjectives and modifiers, purposeful use of figurative and sensory language with increasing sophistication• Demonstrate the effective use of tone and voice (first person, second person, omniscient narrator etc.) to suit the purpose and audience• 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.)• Demonstrate effective control over all aspects of coherence and cohesion (cohesive devices, referencing, substitution, sequence markers, establishing logical relationships, conjunctions, connectives etc.)• Select and use various strategies 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
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		<p>research</p> <ul style="list-style-type: none">• 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• 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)• 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
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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

Grammar and Vocabulary:

- 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
- 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

		<ul style="list-style-type: none"> ● 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
<p>HINDI</p>	<p>Chapter 6: Soor ke pad (Sahitya Sagar Padya bhag)</p> <p>Chapter 7: Vinay ke pad (Sahitya Sagar Padya bhag)</p> <p>Chapter 5: Chalna hamara kaam he</p> <p>Chapter 8: Bheed me khoya aadmi</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 of different words ● Paragraph writing ● Essay writing ● Understanding characters ● Descriptive writing ● Picture writing

	<p>Chapter 9: bhede aur bhediye</p> <p>Chapter 10: Do kalakar</p>	<ul style="list-style-type: none"> • 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, Tenses • Proverbs and Idioms • Correct use of kaarak chinha • Reasoning, recalling
<p>MATHS</p>	<p>Unit 2: Algebra Chapter 9: Arithmetic progression</p> <p>Unit 3: Geometry Chapter 12: Similar Triangles Chapter 14: Circle</p> <p>Unit 4: Mensuration Chapter 15: Three Dimensional Solid</p>	<ul style="list-style-type: none"> • Finding general term of AP • Finding sum of first 'n' terms • Simple applications of AP • Similarity and its conditions for similar triangles • Comparison of congruency with similarity • Applications of basic proportionality theorem • Angle properties and Cyclic properties of a circle • Tangent and Secant properties of a circle • Area and volume of solids: Cylinder, cone, Direct application problems including cost, Inner and outer volume and recasting into another solid • Combination of two solids

<p>PHYSICS</p>	<p>Unit 3: Sound Chapter 7: Sound</p>	<ul style="list-style-type: none"> • Describe reflection of sound waves, echoes • Solve simple numerical problems on echoes • Explain applications of echo • Describe meaning and simple applications of natural, damped, forced vibrations and resonance. • Differentiate between loudness, pitch and quality of sound
	<p>Unit 2: Light Chapter 4: Refraction of Light at plane Surfaces Chapter 5: Refraction through a lens</p>	<ul style="list-style-type: none"> • State laws of refraction • Solve simple numerical problems based on speed, wavelength and frequency • Find refractive index of given media • Describe refraction through a glass prism • Describe total internal reflection as a phenomenon • Compare total internal reflection from a prism and reflection from a plane mirror. • Experimentally verify refraction through a glass slab. • Draw ray diagrams • Describe action of a lens as a set of prism • Formation of images with the help of ray diagrams • Solve numerical problems using lens formula • Explain the applications of lenses in real life
	<p>Unit 5: Heat Chapter 11: Calorimetry</p>	<ul style="list-style-type: none"> • Define heat and its units • Define temperature and its unit • Differentiate thermal capacity

	<p>Unit 6: Modern Physics Chapter 12: Radioactivity</p>	<p>and specific heat capacity</p> <ul style="list-style-type: none"> • State and apply principle of calorimetry • Explain latent heat and heating curve for water • Calculate loss and gain of heat involving change of state for fusion only. • Define nucleus, nuclear structure atomic number and mass number • Explain radioactivity as spontaneous disintegration • Describe α, β and γ rays, their nature and properties
<p>CHEMISTRY</p>	<p>Chapter 6: Electrolysis</p> <p>Chapter 7: Metallurgy</p> <p>Chapter 8: Study of compounds-Hydrogen chloride, Ammonia, Nitric acid and sulphuric acid</p>	<ul style="list-style-type: none"> • Understand new terms • Understand application of electrolysis • Differentiate between metals and non metals on the basis of their physical properties such as lusture, conduction of electricity and heat, malleability, ducility, sonority, melting point, boiling point, density, strength • Describe common uses of some of the metals, non metals and alloys • Describe extraction of metals based on the activity series the corrosion of iron and other metals • Develop scientific method of thinking • Prepare these compounds in laboratory • Understand their properties Understand new terms Draw structure of various

	<p>Chapter 5: Transpiration</p> <p>Chapter 6: Photosynthesis- provider of food for all</p> <p>Chapter 12: The Endocrine System</p>	<ul style="list-style-type: none"> • Perform experiments to show the conduction of water through the xylem • 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 • Locate various endocrine glands in human body • Draw the shape of various endocrine glands
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HISTORY	Unit 3: The Contemporary World The First World War Rise of Dictatorships The Second World War United Nations	<ul style="list-style-type: none"> • Evaluate the causes of First and second world war • To reflect on consequences of World wars • Compare the causes of Rise of Fascism and Nazism • Analyze the reason behind the birth of United Nations • Know about the composition and function of agencies of UN • To build the students understanding of formation and the operation of the United Nations
Civics	Unit 3: The Judiciary The Supreme Court	<ul style="list-style-type: none"> • Understand the judiciary structure in India • Explain the functions of each judicial system • Recognize the need of each judicial system • Discuss the composition of the Supreme Court and state the qualification and appointment of judges to the Supreme Court. • Highlight the powers and functions of Judges of the Supreme Court. Discuss the concept of judicial review and court of record

		<ul style="list-style-type: none"> • Explain the term 'writ' giving examples
GEOGRAPHY	<p>Chapter 9 to 11: Agriculture in India - Introduction, Food Crops, Cash Crops</p> <p>Chapter 12-13: Manufacturing Industries in India</p> <p>Chapter 14: Transport</p>	<ul style="list-style-type: none"> • Explain the importance and characteristics of Indian agriculture • Classify crops on the basis of season • Understand the meaning of important key terms • Analyse the problems of Indian agriculture • Understand the distribution of food crops and cash crops on an outline map of India • Evaluate the climatic conditions suitable to grow different food crops and cash crops • Understand the need of rapid industrialisation in India • Classify industries on the basis of raw materials, minerals and agriculture • Identifying major industrial regions of India • Examine different factors affecting distribution of various industries • Analyse the importance of transportation in India • Classify Roadways • Evaluate the advantages and disadvantages of different means of transportation • Distribution of different modes of transportation on an outline map of India

	<p>Chapter 15-18: Waste Generation and Management</p>	<ul style="list-style-type: none"> • Classify different types of waste • Enlist different sources of wastes Analyse various health hazards caused by Wastes • Explaining different methods of safe disposal of waste-segregation, dumping, composting, drainage, treatment of effluents before discharge, incineration use of scrubbers and electrostatic precipitators
<p>COMPUTER APPLICATIONS</p>	<p>Chapter 6: Constructor</p> <p>Chapter 7: Using Library classes</p> <p>Chapter 2 :Class as the Basis of all Computation</p>	<ul style="list-style-type: none"> • 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. • Objects and Classes • Objects encapsulate state and behaviour - numerous examples; member variables; attributes or features. Variables define state; member methods; • Operations/methods/messages/ methods define behaviour. • Classes as abstractions for sets of objects; class as an object factory; primitive data types, composite data types. Variable declarations for both types; difference between the two types • Objects as instances of a class.

	<p>Chapter 7: String Handling</p>	<ul style="list-style-type: none"> • Consider real life examples for explaining the concept of class and obj • String class, methods of String class, implementation of String class methods, String array • The following String class methods are to be covered: <ul style="list-style-type: none"> • String trim ()String toLowerCase() • String toUpperCase() int length() char charAt (int n) int indexOf(char ch) int lastIndexOf(char ch) • String concat(String str) boolean equals (String str) boolean equalsIgnoreCase(String str) int compareTo(String str) int compareToIgnoreCase(String str) • String replace (char oldChar,char newChar) String substring (int beginIndex) String substring (int beginIndex, int endIndex) boolean startsWith(String str) boolean endsWith(String str) String valueOf(all types) • Programs based on the above methods, extracting and modifying characters of a string.
<p>ART</p>	<p>Paper 1: Still Life Drawing & coloring natural objects, material based objects, backgrounds and foregrounds Paper 4: Applied Art book cover</p>	<ul style="list-style-type: none"> • Graphical gradation drawings • knowledge of Pencil & paint mediums • Composition • Perspective • format study • Space and formation • Visualization

	notice card making patterned paper	<ul style="list-style-type: none">• Association of ideas• Creative and critical imagination• Illustration
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