



Semester Overview

Class: 9		April 2020 - October 2020
Subject	Name of Units/Chapter	Skills
ENGLISH	<p><u>MERCHANT OF VENICE</u> : Act I, Scene 1 Act I, Scene 2 Act I, Scene 3 Act II, Scene 1 Act II, Scene 2</p> <p><u>SHORT STORIES</u> : Short Story: Hearts and Hands Short Story: The Old Man at the Bridge Short Story : A Horse and Two Goats</p> <p><u>POEMS</u> : Poem: The Cold Within Poem: Daffodils Poem: Bangle Sellers</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 specialised 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 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

		<p>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</p> <ul style="list-style-type: none">• 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 judgements 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, analysing descriptive texts to infer meaning, opinion and attitude and synthesizing new ideas• 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,
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		<p>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> <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• 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
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		<p>audience with an appropriate beginning (e.g. salutation in a letter, address, indentation etc.) middle (subject line, paragraphing etc.) and ending (closing etc.)</p> <ul style="list-style-type: none">• 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 research• 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
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		<p>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</p> <ul style="list-style-type: none">• 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• Use pronouns, referencing and substitution accurately to indicate clear relationships within and between sentence
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		<ul style="list-style-type: none"> ● 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
<p>HINDI</p>	<p>Chapter 1: Baat atthani ki (Sahitya Sagar Gadya bhag)</p> <p>Sakhi (Sahitya Sagar Padya bhag)</p> <p>Chapter 2: kaki (Sahitya Sagar Gadya bhag)</p> <p>Giridhar ki kundaliya</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

	(Sahitya Sagar Padya bhag)	<ul style="list-style-type: none"> ● Understanding the gist of Poetry ● Understanding characters ● Descriptive writing ● Picture writing ● Writing character sketch ● Understanding proverbs ● Story writing ● letter writing ● Unseen passage ● Sentence structure ● Synonyms ● Antonyms ● Noun and Pronoun ● Adjectives ● Proverbs and Idioms ● Tenses
MATHS	Unit 4: Algebra-I Chapter 3: Expansions Chapter 4: Factorization Chapter 5: Simultaneous Linear Equation	<ul style="list-style-type: none"> ● Perform operations on algebraic expressions ● Solve real-world problems in which phrases are translated into algebraic expressions ● Simplify the complex algebraic expressions ● Convert numbers between exponential form, factor form and standard form ● Apply exponential laws to solve simple and complex problems ● Define a perfect square trinomial ● Factorise a perfect square trinomial ● Describe different factorization strategies to factor a polynomial ● Apply different factorization strategies to factor polynomials completely ● Discover the need for exponential notation when writing a product of many factors ● Solving linear equations by various methods

	<p>Unit 4: Geometry Chapter 8: Triangles Chapter 9: Mid Point and Intercept theorem Chapter 10: Pythagoras Theorem</p> <p>Unit 5: Statistics Chapter 14: Frequency Distribution Chapter 15: Mean And Median of Ungrouped Data, Frequency Polygon</p> <p>Unit 6: Mensuration: Chapter 16: Perimeter and Area of Plane Figure</p>	<ul style="list-style-type: none"> • Classify a triangle according to its sides/angles • Explain the terms related to a triangle • Describe the properties of a triangle • State/Apply theorems involving properties of a triangle • State the definition of congruent triangles • Determine the correspondences between parts of congruent triangles • Know/apply these methods for proving congruence of triangles: SSS, SAS, ASA, and AAS • Recognize the types of conclusions that can be established by using CPCTC • State/apply theorems involving inequalities in a triangle • State/apply the Pythagoras Theorem. • State/apply the Mid Point Theorem <ul style="list-style-type: none"> • Collect/Organize data for appropriate statistical analysis • Effectively display the information in data sets graphically in the form of a histogram and frequency polygon • Describe different ways to represent a data like mean, mode and median • Describe/apply the formulas to calculate mean, mode and median <ul style="list-style-type: none"> • Apply the concepts learned to solve real world problems • State different units of measurements
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	<p>Chapter 17: Circumference and area of a circle</p> <p>Unit 1: Pure Arithmetic: Chapter 1: Rational and Irrational Numbers</p>	<ul style="list-style-type: none"> • State/apply the formulas to calculate area of plane figures • Calculate areas of irregular figures • Apply the concepts of mensuration to solve real world problems • State/apply the formulas to calculate volume and surface area • Recognize different types of number systems • Understand the arithmetical properties of the numbers • Perform arithmetic operations with complex numbers • Represent a rational number on number line • Perform the Rationalization operation and explain its importance in making the calculations easy
<p>PHYSICS</p>	<p>Unit1 : Measurement Chapter 1: Measurement and Experimentation</p> <p>Unit 2: Pressure Chapter 4: Pressure in fluids and Atmospheric Pressure Chapter 5: Upthrust in Fluids and Archimedes' Principle</p>	<ul style="list-style-type: none"> • Describe the need of a physical quantity and its unit. • Convert quantities from one unit system to another. • Measure the time period of a simple pendulum • Apply the concepts in solving real life problems. • Differentiate between thrust and pressure • Describe the laws of liquid pressure. • Apply the formula $P = h\rho g$ to solve various word problems related to liquid column • State and apply Pascal's Law. • Describe atmospheric pressure and its common consequences • Explain the working and construction of different types of

	<p>Unit 3: Motion Chapter 2: Motion in one Dimension Chapter 3: Laws of Motion</p>	<p>barometer.</p> <ul style="list-style-type: none"> ● Explain the application of a barometer in weather forecasting. ● Explain upthrust and buoyant force ● Describe Archimedes Principle and its applications. ● Verify the Archimedes principle experimentally. ● Measurement of relative density by Archimedes Principle ● Describe and apply the principle of Flotation <ul style="list-style-type: none"> ● Differentiate between scalar and vector quantities. ● Apply the equations of motion to solve simple real life problems ● Represent the distance/displacement time data graphically and analyse it ● Describe the concepts and examples of contact and non contact forces ● Describe laws of motion, inertia and momentum with respect to various events in the surrounding. ● Explain universal law of gravitation and apply it in word problems.
<p>CHEMISTRY</p>	<p>Chapter 4: Atomic structure and chemical bonding</p> <p>Chapter 1: The language of Chemistry</p> <p>Chapter 2:</p>	<ul style="list-style-type: none"> ● Understanding valence shells and its accommodation. ● Solving Organic reactions ● perform calculations and draw reasonable, accurate conclusions. <ul style="list-style-type: none"> ● Identify symbols and formulae ● Understand and write chemical reactions ● Balance a chemical reactions ● Calculate molecular mass ● Understand new terms <ul style="list-style-type: none"> ● Analyze difference between

	<p>Chemical changes and reactions</p> <p>Chapter 3: Water</p>	<p>physical and chemical change</p> <ul style="list-style-type: none"> ● Scientific method of thinking ● Synthesize, separate and characterize compounds ● Accurately interpret numerical data ● Ability to learn new information rapidly and efficiently ● Gathering data, making and testing models and predictions ● Practical skills ● Analyzing and modeling a physical process ● Skills with chemical instrumentation ● Distinguishing the different waterborne diseases
<p>BIOLOGY</p>	<p>Unit 1: Basic Biology Chapter 2: Cell- The Basic Unit of Life Chapter 3: Tissues - Plant and Animal Tissues</p> <p>Unit 2: Flowering Plants</p>	<ul style="list-style-type: none"> ● Define cell ● State major postulates of Cell Theory ● Draw diagram to represent basic structure of the cell ● Differentiate between plant and animal cell ● Explain structure and functions of various cell organelles ● Differentiate between Prokaryotic and Eukaryotic Cell ● Understand tissue as combination of cells ● Classify Plant Tissues ● State the characteristics and location of various types of plant tissues ● Classify Animal Tissues ● State the characteristics and location of various types of animal tissues ● Explain the structure and functions of various tissues ● Explain and draw structure of bisexual flower

	<p>Chapter 4: The Flower Chapter 5: Pollination and Fertilization</p> <p>Unit 3: Plant Physiology Chapter 6: Seeds- Structure and Germination Chapter 7: Respiration in plants</p> <p>Unit 4: Diversity in Living Organisms Chapter 9: Economic Importance of Bacteria and Fungi</p>	<ul style="list-style-type: none">• Write a general description and function of the floral parts• Explain the significance of self and cross pollination• Differentiate between self and cross pollination• Give Examples of pollination• Explain the process of fertilization in flowering plants • Define Fruit and seed• Draw and label diagrams of dicot and monocot seeds• Define germination of seeds and explain its types• Differentiate between epigeal and hypogeal germination• List conditions necessary for germination• Understand respiration as a process of energy liberation in plants• Differentiate between photosynthesis and respiration• Differentiate between aerobic and anaerobic respiration• Outline the process of respiration and gaseous exchange• Perform experiments to prove various aspects of germination and respiration in plants • Appreciate the role of bacteria in medicine, agriculture and industry• Consider and take appropriate measures against harmful role of bacteria• Appreciate Economic importance of Fungi
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<p>HISTORY</p>	<p>Unit 1: The Harappan Civilization</p> <p>Unit 2: The Vedic Age</p> <p>Unit 3: India in 6th century BC</p> <p>Unit 4: The Mauryan Empire</p> <p>Unit 4: The Sangam Age</p> <p>Unit 5: The Age of Guptas</p>	<ul style="list-style-type: none"> • Understand the importance of History • Identify the steps towards civilization • Identify the cradles of civilization • Find the causes of Decline of the Harappan Civilization • Identify the sources of early and later Vedic society • Do comparative study of early and later Vedic society • Understand the most famous literary works of the later Vedic period - The Ramayana and the Mahabharata • Identify the causes for the rise of Jainism and Buddhism in the 6th century BC • Understand doctrines and impact of Jainism and Buddhism • Identify the sources of information of the Mauryan Empire • know the rulers of Mauryan empire • Understand aim of Ashoka's Dhamma and its relevance in present time • Understand that the Sangam Age witnessed an interaction between the North and South of India • Identify the various sources to reconstruct the Sangam Age • Identify the various sources to reconstruct the Gupta Age • Know about contributions to the Progress of Literature and Education • Know about developments in the fields of Science, religion, culture
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		<p>and Architecture</p> <ul style="list-style-type: none"> Identify architecture and Artistic Developments during the age of Guptas
CIVICS	<p>Unit 1: Our Constitution</p> <p>Unit 2: Elections and the Election Commission</p>	<ul style="list-style-type: none"> Understand enactment of the Indian constitution Composition and formation of the Constituent Assembly Understand the main principles in the Preamble List the features of constitution List down the fundamental rights and duties Differentiate between rights and duties Describe the directive principles of state policy Explain the difference between directive principles and fundamental rights Understand the meaning of welfare state. Understand the importance of Election in democracy Understand kind and types of Election Understand essential differences between direct and indirect elections Understand the working of Election Commission
GEOGRAPHY	<p>Unit 1: Our World Chapter 1: The Earth As A Planet Chapter 2: Geographic Grid Chapter 3: Motions of the Earth</p>	<ul style="list-style-type: none"> Analyse reasons for the Earth of being an unique planet Identify equatorial and polar diameter of the earth Assess the size and measurement of the earth Demonstrate effect of different incidence of angle of sun rays

	<p>Unit 2: Structure of the Earth Chapter 4: Structure of the Earth Chapter 6: Rocks Chapter 7: Volcanoes Chapter 8: Earthquakes</p>	<ul style="list-style-type: none">• Find out the location and extent of any place exist on the earth surface.• Assess and evaluate the climatic conditions of any place with the help of their location.• Compare the time zones of Russia and USA.• Analyse the reason for addition and deduction of day while crossing International Date Line.• Construct opinion about 'What would happen if International Date Line passes through continents'• Assess the effects of the Earth's movement• Application of new key terms in the real life • Compare and contrast different layers of the Earth in the interior part• Examine the composition of different layers of the Earth• State the properties of core, mantle and crust.• Young fold mountains are liable to earthquakes and volcanic action.• Compare and contrast difference between Epeirogenic movement and orogenic movement• State the properties of igneous, sedimentary and metamorphic rocks• Assess the reasons for the Circum - Pacific Belt known as the Pacific Ring of Fire• Classification of volcanoes and volcanic land forms• Examine the cause of earthquakes in the belt of young fold mountains
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<p>COMPUTER APPLICATIONS</p>	<p>Unit 1: Introduction to Object Oriented Programming concepts Chapter 1: Introduction to JAVA</p> <p>Unit 2: Values and data types</p> <p>Unit 3: Operators in Java</p> <p>Unit 5: Input in Java</p>	<ul style="list-style-type: none"> ● Introduction to JAVA - Types of java ● programs - Applets and Applications, Java ● Compilation process, Java Source code, Byte code, Object code, Java Virtual Machine (JVM), Features of JAVA. ● Commands ● Character set, ● ASCII code, Unicode, Escape sequences, ● Tokens, Constants and Variables, Data Types, ● Type conversions. ● Forms of operators, ● Types of operators, ● Counters, ● Accumulators, ● Hierarchy of operators, 'new' operator, dot (.) operator. ● Initialization, ● Parameter, ● introduction to packages, ● Input streams (Scanner Class), types of errors , ● types of comments
<p>ART</p>	<p>Paper 1: Still Life</p> <ul style="list-style-type: none"> ● 3D shapes ● Object collected from campus ● Different objects composition <p>Paper 4: Applied Art</p> <ul style="list-style-type: none"> ● Poster making ● Book jacket designing 	<ul style="list-style-type: none"> ● Composition ● Perspective ● Space and formation ● Proportion ● Imagination ● Visualization ● Association of ideas ● Creative and critical imagination ● Illustration ● Knowledge of mediums

	<ul style="list-style-type: none">● Advert making● Logo designing and its stationary● Card design● Wrapper design	
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