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Semester Overview 2021-2022

Class: 9		October 2021 – February 2022
Subject	**Name of Units**	**Skills**
ENGLISH	**MERCHANT OF VENICE:** ACT III,SCENE 1 **SHORT STORIES :** **Short Story:** Hearts and Hands **Short Story:**Angel in Disguise **Short Story:**A Face in the Dark **Short Story:**Chief Seattle's Speech **POEMS :** **Poem:**Television **Poem:**Daffodils **Poem:**The Bangle Sellers	**Reading and viewing:** • 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 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 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, 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 **Writing**: ● 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 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 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 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 **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 ● 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	**Chapter 3:** Neta ji ka chashma(Sahitya Sagar Gadya bhag) Vah janm bhoomi meri (Sahitya Sagar Padya bhag) **Chapter 4:** Maha yagya	**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

	ka puruskar (Sahitya Sagar Gadya bhag) Swarg bana Sakte he (Sahitya Sagar Padya bhag)	different words • Paragraph writing • Understanding poetry • Essay writing • 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	**Chapter 2:** Compound Interest	• Describe and apply the formula for finding simple interest and compound interest • Describe an alternate procedure for finding simple interest and compound interest • Recognize the importance of converting time from months to years before applying the formula for interest • Differentiate between simple and compound interest
	Chapter 6 : Exponents/Indices	• Define base and exponent • Recite and write numbers in exponential form • Indicate if a number is written in exponential form, factor form or standard form • Restate the rules for a base with an exponent of zero/one and other laws of exponents • Convert numbers between exponential form, factor form and standard form • Apply exponential laws to solve simple and complex problems Discover the need for logarithmic notation when writing a product of many factors
	Chapter 13: Circle	• Understanding the terms and concepts of chord and applying them to solve simple problems
	Chapter 18: Volume and Surface Area of Solids	• State/apply the formulas to calculate volume and surface area of cube, cuboid and cylinder

		• State the relation between different units of volume • Apply the concepts of mensuration to solve real world problems • Consolidating and generalizing the notion of chance in events like tossing coins, dice etc. Relating it to chance in life events
	Chapter 19: Trigonometrical Ratio	• Understanding the terms and concepts of arc and applying them to solve simple problems. • Understand basic properties of trigonometric ratio. • Applying properties of trigonometric ratio
	Chapter 20: Co-ordinate Geometry	• Understand that a linear function can be represented in multiple ways (e.g., graph, table, equation) • Explain the basics of co ordinate system • Identify ordered pairs that solve a linear equation • Represent a linear equation on a graph paper • Solve a pair of simultaneous equations graphically
	Chapter 9: Mid point and intercept theorem	• Mid-Point Theorem and its converse, equal intercept theorem (i) Proof and simple applications of midpoint theorem and its converse. (ii) Equal intercept theorem: proof and simple application. (d) Pythagoras Theorem

	Chapter 10: Pythagoras theorem	• Area based proof and simple applications of Pythagoras Theorem and its converse.
	Chapter 11: Rectilinear Figures	• Rectilinear Figures (a) Proof and use of theorems on parallelogram. • Both pairs of opposite sides equal (without proof). Both pairs of opposite angles equal. One pair of opposite sides equal and parallel (without proof). Diagonals bisect each other and bisect the parallelogram. Rhombus as a special parallelogram whose diagonals meet at right angles. In a rectangle, diagonals are equal, in a square they are equal and meet at right angles.
	Chapter 13: Circles	• Circle: Area and Circumference. Direct application problems including Inner and Outer area. Areas of sectors of circles other than quarter circle and semicircle are not included
PHYSICS	**Chapter 6:** Heat and Energy	• Explain Heat as a form of energy • Distinguish between temperature and heat • Understand anomalous expansion of water and its consequences • Describe thermal Expansion in solids and liquids • Understanding the flow of energy as linear and linking it with laws of thermodynamics. • Understanding different forms of energy

		• Differentiate renewable and non renewable resources of energy • Understanding meaning and impact of global warming on life of earth
	Chapter 7: Reflection of light	• Explain the laws of reflection • Identify and explain examples of reflection in daily life • Differentiate between real and virtual image • Describe the uses of plane mirror Describe spherical mirrors and its types • Explain different terms related to reflection • Draw ray diagrams for the construction of image for different locations of objects • Differentiate between convex and concave mirror • Apply the concepts of reflection in daily life • Apply the sign convention and direct formula to solve simple problems
	Chapter 8: Propagation of sound waves	• Define Sound and factors affecting it • Experimentally prove that sound requires a medium to propagate • Applying V= fv to solve simple numerical problems • Classification of sound based on different frequencies
	Chapter 9: Current Electricity	• Explain different sources of electric current • Describe different ways to

		produce electric current. • Describe different effects of electricity • Draw circuit diagram using electrical symbols • Detection of current by galvanometer and ammeter • Understanding the concepts resistance and Ohm's law • Justifying the need and methods of efficient uses of energy
	Chapter 10: Magnetism	• Differentiate between magnetic and non magnetic substances • Describe properties of a magnet Explain the working and uses of a magnetic compass • Experimentally draw magnetic lines of force and explain about them • Describe the Earth as a giant magnet • Locating the neutral points of a magnet
CHEMISTRY	Chapter 5: The periodic table	• Understand the classification of elements • Describe various periodic laws by various scientists • Identify and describe the position of all the elements in the periodic table • Understand their properties on the basis of position in periods and groups
	Chapter 6: Hydrogen	• Describe the preparation of hydrogen from electrolysis of water

		• Prepare hydrogen in the lab, using zinc and acid • Describe properties and uses of hydrogen • Correlate concepts of oxidation and reduction
	Chapter 7: Study of gas laws	• Understand the behaviour of gases under changes of temperature and pressure • Explain and solve problems on Boyle's and Charles's laws • Convert kelvin scale to celsius scale and vice versa
BIOLOGY	**Unit 5:** Human Anatomy and Physiology **Chapter 10:** Nutrition	• Understand the need of nutrition • Classify food items according to nutrients present in them • Enlist the functions of different food components • Match the nutrients with their sources • Understand importance of balanced diet • Create diet plan according to specific needs of the person • Identify deficiency diseases through their symptoms • Suggest a diet plan for prevention of deficiency diseases • Understand the need for digestive system
	Chapter 11: Digestive System	• Enlist different organs and glands of digestive system • Explain the structure of tooth with the help of diagram • State functions of different types of teeth

		• Write dental formula for an adult human being • Describe the functions of different parts of digestive system including enzymes • Perform experiments on digestion
	Chapter 12: Skeleton-Movement and Locomotion	• Understand the need for a skeletal system • Enlist constituents of a skeleton • Classify bones on the basis of shape • State the number of bones in each region og human body • Differentiate between axial skeleton and appendicular skeleton • Identify the type of joint in different parts of the body • Differentiate between voluntary, involuntary and cardiac muscles • Understand the movements in different parts of the body through lever mechanisms
	Chapter 13: Skin	• Describe different functions of skin • Label a diagram of internal structure of skin • Enlist the names and functions of different derivatives of skin
	Chapter 14: The Respiratory System	• Understand the need for a respiratory system • Draw a well labelled diagram of human respiratory system • Differentiate between aerobic and anaerobic respiration

		• Appreciate the role of diaphragm and intercostal muscles in breathing • Explain the physiology of gaseous transport and tissue respiration • Understand the effect of altitude on breathing • Define different terms associated with respiratory volumes • Perform experiments related to breathing and respiration
HISTORY	**Unit 5:** The Sangam Age	• Understand the meaning of the word 'Sangam' • Analyse the sources of Sangam Age
	Unit 6: The Age of Guptas	• Analyse the primary sources during the Gupta rule • Explore the achievements of the Guptas
	Unit 7: Medieval India	• Understand that the Medieval period witnessed an interaction between the North and South of India • Identify the various sources to reconstruct the Medieval period • Know about the major kingdoms-during the Medieval period • Critically analyze the social and economical condition during the Medieval period
	Unit 8: The Modern Age in Europe	• Understand the meaning, causes and impact of the Renaissance. • Understand the meaning, causes

		and impact of the Reformation • Understand the meaning, causes and impact of the Industrial Revolution
Civics	**Unit 3:** Local Self Government	• Appreciate that the local government has an important role to play both in the rural as well as urban areas • Describe the salient features of the 73rd and 74th amendments of the Constitution • Describe the organization and functions of the local bodies (Urban and Rural) • Identify the financial resources of local bodies; l explain the functions of local bodies • Evaluate the performance of Panchayati Raj institutions as instruments of democratic decentralization (grassroots democracy)
GEOGRAPHY	**Unit 2:** Structure of the Earth **Chapter 8:** Earthquakes **Chapter 9:** Weathering **Chapter 10:** Denudation	• Explain the reasons for earthquakes • Understand where in the world earthquakes are most likely to occur • Describe the potential consequences of an earthquake • Differentiate between earthquake intensity and earthquake magnitude • Recognize that weathering breaks down minerals and rocks and occurs as a result of both mechanical and chemical processes

		• Explain the processes that cause mechanical weathering, which is responsible for rock disintegration • Explain the reactions that cause chemical weathering, which is responsible for rock decomposition • Describe how soils form and what factors control the development of soil profiles • Discuss the role that plate tectonic processes play in weathering, soil development, and global temperature variation
	Unit 3: Hydrosphere **Chapter 1:** Hydrosphere	• Identify different land features of Hydrosphere • Analyse the properties and patterns of tides and ocean currents • Define weather and how it is different from climate
	Unit 4: Atmosphere **Chapter 12:** Composition and Structure **Chapter 13:** Insolation **Chapter 14:** Atmospheric pressure and winds **Chapter 15:** Humidity **Unit 5:** Pollution **Chapter 16:** Pollution **Chapter 17:** Sources of Pollution	• Specify the composition of the atmosphere near Earth's surface • Factors affecting temperature Identify and characterize the four layers of the atmosphere • Describe the major components of clean, dry air • Describe the extent and structure of the atmosphere • Explain what causes temperature to vary from place to place • Explain how the atmosphere is heated and what causes seasons • Discuss humidity, basic

	Chapter 18: Effects of Pollution **Chapter 19:** Preventive Measures of Pollution	cloud-forming processes, and the mechanisms that initiate the vertical movement of air • Describe fog, how it forms and how precipitation is produced in a cloud • Identify the criteria used for cloud classification and the conditions necessary for condensation • Discuss global warming and ozone depletion • Mapping different regions of the world as per the climatic conditions.
ART	**Paper 1:** Still Life Drawing & coloring natural objects, material based objects, backgrounds and foregrounds **Paper 4:** Applied Art book cover notice card making patterned paper	• Graphical gradation • knowledge of Pencil & Paint mediums • Composition • Perspective • format study • Space and formation • Visualization • Association of ideas • Creative and critical imagination • Illustration
COMPUTER APPLICATIONS	**Chapter 6:**Mathematical Library methods **Chapter 7:**Iterative	• Introduction to package jav.lang,Methods of Math.class-pow(x,y), sqrt(x), cbrt(x), ceil(x), floor(x), round (x), abs(a), max(a, b), min(a,b), random( ). • Java expressions – using all the operators and methods of Math class. • Definition, Types of looping

	Constructs in Java	statements, entry controlled loops [for, while], exit controlled loop [do while] , variations in looping statements, and Jump statements.
	Chapter8:Nested Loop	• Introduce nested loops through some simple examples. Demonstrate break and continue statements with the help of nested loops