



Semester Overview

Class: 10		March 2019 - July 2019
Subject	Name of Units	Skills
ENGLISH	<p><u>MERCHANT OF VENICE:</u></p> <p>ACT 3 SCENE 1</p> <p>ACT 3 SCENE 2</p> <p>ACT 3 SCENE 3</p> <p>ACT 3 SCENE 4</p> <p>ACT 3 SCENE 5</p> <p>ACT 4 SCENE 1</p> <p>ACT 4 SCENE 2</p> <p><u>SHORT STORIES :</u></p> <p>Short Story : My Greatest Olympic Prize</p> <p>All Summer in a Day</p> <p><u>POEMS:</u></p> <p>Poem: The Patriot</p> <p>Poem: Abou Ben Adhem</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 before reading and viewing to develop

		<p>understanding of text, including setting a purpose, 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
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		<p>personally meaningful selections, passages, and images and comparing various viewpoints, analyzing descriptive texts to infer meaning, opinion and attitude 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
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		<p>representations that demonstrate connections to experiences, ideas, opinions and visual clues</p> <ul style="list-style-type: none">• 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
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		<p>over all aspects of coherence and cohesion (cohesive devices, referencing, substitution, sequence markers, establishing logical relationships, conjunctions, connectives etc.)</p> <ul style="list-style-type: none">• 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
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		<p>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
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		<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• 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
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		<p>idiomatic expressions fluently and flexibly to convey precise meaning</p> <ul style="list-style-type: none"> • Demonstrate an awareness of style and collocation • Demonstrate full control over spelling and word formation
HINDI	<p>Chapter 6: Soor ke pad (Sahitya Sagar Padya bhag)</p> <p>Chapter 7: Sandeh(Sahitya Sagar Gadya bhag)</p> <p>Chapter 7: Vinay ke pad (Sahitya Sagar Gadya bhag)</p> <p>Chapter 8: Jamun ka ped (Sahitya Sagar Gadya bhag)</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 • 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

		<ul style="list-style-type: none">• Proverbs and Idioms• Tenses• Correct use of karak chinha• Reasoning, recalling
MATHS	<p>Unit 1: Commercial Mathematics</p> <p>Chapter 1: Value added tax Chapter 2: Banking Chapter 3: Shares and dividend</p> <p>Unit 2: Algebra</p> <p>Chapter 4: Linear equations in one variable</p> <p>Chapter 5: Quadratic Equations</p> <p>Chapter 6: Ratio and Proportion</p> <p>Chapter 7: Factor Theorem- Factorization</p>	<ul style="list-style-type: none">• Calculate Goods and Services tax including problems involving CGST, SGST and IGST.• Calculate interest and maturity value of recurring deposit account using formula• Solve real life problems related to shares and dividends using the concepts of percentage as well as formula• Solve Linear inequation algebraically and writing the solution in set notation form• Represent the solution on the number line• Solve Quadratic equation by<ul style="list-style-type: none">• 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• Understand Factor/ Remainder Theorem

	<p>Chapter 8: Matrices</p> <p>Chapter 11: Coordinate Geometry</p> <p>Chapter 9: Arithmetic and Geometric progression</p> <p>Unit 5: Trigonometry Chapter 16: Trigonometrical 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"> • Apply Factor/ Remainder Theorem to factorise an algebraic expression • Explain different types of matrices • Perform addition/subtraction/multiplication operations on matrices • Reflection of a point on X-axis, Y-axis and about the origin. • Express a line , its mid point and slope as a co ordinate • Application of mid point formula • Finding general term of AP and GP. • Finding sum of first 'n' terms • Simple applications of AP and GP • 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,
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		<p>mode and median</p> <ul style="list-style-type: none">• 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
PHYSICS	<p>Unit1 : Force, Work, Power and Energy Chapter 1: Force Chapter2: Work, Energy and Power Chapter 3: Machines</p> <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">• 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• State laws of refraction• Solve simple numerical problems based on speed, wavelength and frequency• Find refractive index of given

		<p>media</p> <ul style="list-style-type: none"> • 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>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,

	<p>Chapter 3: Acid, Bases and salts</p> <p>Chapter 4: Analytic Chemistry</p>	<p>covalent and coordinate bonds</p> <ul style="list-style-type: none">• Understand characteristic properties of electrovalent and covalent compounds• 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• Perform chemical tests to identify cations and anions.• Solve problems based on chemical reactions
	<p>Chapter 5: Mole concept and</p>	<ul style="list-style-type: none">• Develop the ability to accurately interpret numerical data

	<p>Stoichiometry</p> <p>Chapter 7:</p> <p>Metallurgy</p>	<ul style="list-style-type: none"> • Differentiate between metals and non metals on the basis of their physical properties such as lusture, conduction of electricity and heat, malleability, ductility, 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
<p>BIOLOGY</p>	<p>Chapter 8:</p> <p>The Circulatory System</p>	<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 • Explain and draw external and

	<p>Chapter 9: The Excretory System</p> <p>Chapter 10: The Nervous System</p> <p>Chapter 11: Sense organs</p>	<p>internal structure of the kidney</p> <ul style="list-style-type: none">• Label parts of the excretory system along with the blood vessels entering and leaving it• Draw diagrams of various parts of excretory system with correct labelling and function of each part• Draw and label structure of a kidney tubule nephron• Explain the steps involved in urine formation- ultra filtration, selective re-absorption and tubular secretion in relation to the composition of blood plasma and urine formed• Identify and label various parts of the external structure of the brain and state their functions• Diagrammatically explain reflex arc, showing the pathway from receptor to effector• Differentiate between acquired and natural reflex• Label the diagrams of eye and ear and state functions of various parts• Explain the course of perception of sound in human ear• Appreciate the role of ear in maintaining balance• Locate various endocrine glands
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	<p>Chapter 12: The Endocrine System</p> <p>Chapter 13: The Reproductive System</p> <p>Chapter 14:</p>	<p>in human body</p> <ul style="list-style-type: none"> • Draw the shape of various endocrine glands • Enlist the hormones secreted by different glands along with their functions • Explain the effects of hypo secretion and hyper secretion of different hormones • Appreciate the feedback mechanism of endocrine glands • Draw well labelled diagrams of male and female reproductive system • Explain the functions of different reproductive organs in male and female body • Draw labelled diagram of sperm and egg cell • Understand the functions of different parts of sperm and egg • Understand the development of secondary sexual characteristics in their own body as well in the body of opposite sex and appreciate the changes • Sequence the process of fertilization, implantation, gestation and parturition • Understand the developmental process of foetus to a fully grown baby • Understand the reasons for identical and fraternal twins • Differentiate between
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	<p>Human Evolution</p> <p>Chapter 15: Population- The Increasing Numbers and Rising Problems</p>	<p>different human ancestors on the given basis</p> <ul style="list-style-type: none"> • Arrange human ancestors in chronological order • Define and name analogous, homologous and vestigial organs • • Understand Lamarck's theory of inheritance and acquired characters • Understand various stages of Darwin's theory of 'Natural Selection' • 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 • Suggest appropriate methods of population control including surgical methods
<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 	<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

	<p>Congress</p> <ol style="list-style-type: none"> 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 6. National Movement during the First World War: Lucknow Pact and other development <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 Block and the Indian National Army 	<p>reform movement on the Indian society.</p> <ul style="list-style-type: none"> • 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 and the Lucknow Pact <ul style="list-style-type: none"> • Appreciate Gandhiji's contribution to the freedom struggle • recognize the impact of the Rowlatt Act and the Jalianwala 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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	(INA) 4. Independence and the Partition of India	
CIVICS	Unit 1: The Union Legislature 1. The Union Parliament 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	<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
GEOGRAPHY	Part I- Map Work Chapter 1: Interpretation of Topographical Maps	<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

	<p>Chapter 2 : Location, Extent and Physical Features (Map only)</p> <p>Part II- Geography of India</p> <p>Chapter 3: The Climate of India</p> <p>Chapter 4: Soils in India</p> <p>Chapter 6: Natural Vegetation of India</p>	<p>scale given on the map</p> <ul style="list-style-type: none"> • Measure distances and calculating area using the scale given therein • Mark directions between different locations, using eight cardinal points. • Identify settlement pattern, drainage pattern <ul style="list-style-type: none"> • Locate, mark and name the geographical elements on the outline map of India <ul style="list-style-type: none"> • Analyse various factors affecting the climate of India • Compare different seasons of India • Demonstrate mechanism of monsoon with the help of map <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Explain different types of forests • Describe the importance of forests • Suggest different ways to conserve forest
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	<p>Chapter 7: Water Resources</p>	<ul style="list-style-type: none">• Enlist different sources of fresh water• Differentiate between surface water and ground water• Analyse the reason for conservation of water and conservation practices (rainwater harvesting and its importance)• Compare traditional and modern methods of irrigation
<p>COMPUTER APPLICATIONS</p>	<p>I. Java Concepts</p> <p>Chapter 1: Object oriented programming</p> <p>Chapter 2: Elementary concepts of Objects and classes</p> <p>Chapter 3: Values and data types</p> <p>Chapter 4: Operators and Expressions in Java</p> <p>Chapter 5(a): Introduction to Java</p> <p>Chapter 5(b): Input in Java</p>	<ul style="list-style-type: none">• Principles of object oriented programming• Difference between object oriented and procedural programming• Features and working of java• Libraries and keywords used in java• Understanding tokens and data types used in java• Type conversion and precedence of operators• Types of operators• Packages used for mathematical functions• Input the data at command line by two methods• Decision making statements- if else and switch case• Concept of fall through, break statement and continue statement

	<p>Chapter 6: Mathematical library methods</p> <p>Chapter 7: Conditional statements in Java</p> <p>Chapter 8: Iteration through loops</p> <p>Chapter 9: Nested loops</p> <p>II. Library classes III. Arrays</p>	<ul style="list-style-type: none"> • Nested statements • Scope of variable, testing and debugging • Types of errors that can occur in programming • Fixed iterations- for loops and nested for loops • Unfixed iterations- while loop and do-while loops • Use of break and continue statements in while • Conversion of characters to codes using ASCII values • Conversion of primitive datatypes to string type • Use of scanner class • How to read tokens from scanner class and methods used in scanner class • Use of print writer class • Library class functions/methods. • In-built Java methods and library files. • Single and Double dimensional array.
<p>ART</p>	<p>Paper 1: Still Life</p> <ul style="list-style-type: none"> • 3D shapes • Object collected from campus • Different objects composition 	<ul style="list-style-type: none"> • Composition • Perspective • Space and formation • Proportion • Imagination • Visualization • Anatomy • Association of ideas

	Paper 4: Applied Art <ul style="list-style-type: none">• Logo designing and its stationary• Book jacket designing• Poster design• Card design• Wrapper design	
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