



### Semester Overview 2019-2020

**Class: 9**

**April 2019 - October 2019**

Subject	Name of Units	Skills
ENGLISH	<p><u>MERCHANT OF VENICE</u> :</p> <p>ACT I, SCENE 1</p> <p>ACT I, SCENE 2</p> <p>ACT I, SCENE 3</p> <p>ACT II, SCENE 1</p> <p>ACT II, SCENE 2</p> <p><u>SHORT STORIES</u> :</p> <p>Short Story: Face in the dark</p> <p>Short Story: The Old Man at the Bridge</p> <p>Short Story : A Horse and Two Goats</p> <p><u>POEMS</u> :</p> <p>Poem: Television</p> <p>Poem: After Blenheim</p> <p>Poem: Bangle Sellers</p>	<p><b>Reading and viewing:</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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)</li> </ul>

		<ul style="list-style-type: none"><li>• Select and use various strategies <i>before reading</i> 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</li><li>• 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</li><li>• 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</li><li>• Respond to selections they read or view, by expressing opinions and making judgements supported by</li></ul>
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		<p>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</p> <ul style="list-style-type: none"><li>• 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</li></ul>
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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

		<p>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.)</p> <ul style="list-style-type: none"><li>• Demonstrate effective control over all aspects of coherence and cohesion (cohesive devices, referencing, substitution, sequence markers, establishing logical relationships, conjunctions, connectives etc.)</li><li>• 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</li><li>• 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</li></ul>
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		<p>editing</p> <ul style="list-style-type: none"><li>• 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)</li><li>• 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</li><li>• 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</li></ul>
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		<p>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> <p><b>Grammar and Vocabulary:</b></p> <ul style="list-style-type: none"><li>• Identify and explain how syntactic and structural features convey meaning</li><li>• Use tenses (simple, continuous, perfect and perfect continuous) accurately to convey time and sequence of events</li><li>• Use pronouns, referencing and substitution accurately to indicate clear relationships within and between sentence</li><li>• 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</li><li>• Explore and use varied sentence structures to convey the same meaning</li><li>• Use punctuation and other structural clues to infer and convey meaning</li><li>• Select and use words (verbs, noun phrases, adjectives and</li></ul>
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		<p>adjective phrases, adverbs, modifiers) to convey precise meaning, nuances, intensity, mood, attitude, register, tone and opinion</p> <ul style="list-style-type: none"> <li>• Identify and use synonyms and paraphrase effectively</li> <li>• Identify and record how descriptive language is used in texts to convey meaning</li> <li>• Use a wide range of vocabulary, including phrasal verbs and idiomatic expressions fluently and flexibly to convey precise meaning</li> <li>• Demonstrate an awareness of style and collocation</li> <li>• Demonstrate full control over spelling and word formation</li> </ul>
<p><b>HINDI</b></p>	<p><b>Chapter 1:</b> Baat atthani ki (Sahitya Sagar Gadya bhag)</p> <p>Sakhi (Sahitya Sagar Padya bhag)</p> <p><b>Chapter 2:</b> kaki (Sahitya Sagar Gadya bhag)</p> <p>Giridhar ki kundaliya (Sahitya Sagar Padya bhag)</p> <p><b>Chapter 3:</b> Mahayagya ka purushkaar (Sahitya Sagar Gadya bhag)</p>	<ul style="list-style-type: none"> <li>• Reading and Comprehending</li> <li>• Dictionary skills</li> <li>• Listen critically to understand</li> <li>• Asking questions to clarify meaning</li> <li>• Discussion on main points of the story</li> <li>• Writing short notes</li> <li>• Develop understanding for different words</li> <li>• Paragraph writing</li> <li>• Understanding poetry</li> <li>• Essay writing</li> <li>• Understanding the gist of Poetry</li> <li>• Understanding characters</li> <li>• Descriptive writing</li> <li>• Picture writing</li> </ul>



	<p>Swarg bana sakte he (Sahitya Sagar Padya bhag)</p> <p><b>Chapter 4:</b> Neta ji ka chashma (Sahitya Sagar Gadya bha)</p> <p>Vah janmbhumi meri (Sahitya Sagar Padya bhag)</p>	<ul style="list-style-type: none"> <li>• Writing character sketch</li> <li>• Understanding proverbs</li> <li>• Story writing</li> <li>• letter writing</li> <li>• Unseen passage</li> <li>• Sentence structure</li> <li>• Synonyms</li> <li>• Antonyms</li> <li>• Noun and Pronoun</li> <li>• Adjectives</li> <li>• Proverbs and Idioms</li> <li>• Tenses</li> </ul>
<b>MATHS</b>	<p><b>Unit 4: Algebra-I</b></p> <p><b>Chapter 3:</b> Expansions</p> <p><b>Chapter 4:</b> Factorization</p>	<ul style="list-style-type: none"> <li>• Perform operations on algebraic expressions</li> <li>• Solve real-world problems in which phrases are translated into algebraic expressions</li> <li>• Simplify the complex algebraic expressions</li> <li>• Convert numbers between exponential form, factor form and standard form</li> <li>• Apply exponential laws to solve simple and complex problems</li> <li>• Define a perfect square trinomial</li> <li>• Factorise a perfect square trinomial</li> <li>• Describe different factorization strategies to factor a polynomial</li> <li>• Apply different factorization strategies to factor polynomials completely</li> <li>• Discover the need for</li> </ul>

	<p><b>Chapter 5:</b> Simultaneous Linear Equation</p> <p><b>Chapter 6 :</b> Exponents/Indices</p> <p><b>Chapter 7: Logarithms</b></p> <p><b>Unit 4: Geometry</b> <b>Chapter 8: Triangles</b></p>	<p>exponential notation when writing a product of many factors</p> <ul style="list-style-type: none"> <li>• Solving linear equations by various methods</li> <li>• Define base and exponent</li> <li>• Recite and write numbers in exponential form</li> <li>• Indicate if a number is written in exponential form, factor form or standard form</li> <li>• Restate the rules for a base with an exponent of zero/one and other laws of exponents</li> <li>• Convert numbers between exponential form, factor form and standard form</li> <li>• Apply exponential laws to solve simple and complex problems</li> </ul> <ul style="list-style-type: none"> <li>• Discover the need for logarithmic notation when writing a product of many factors</li> <li>• Recite and write numbers in logarithmic form</li> <li>• Restate the rules logarithms</li> <li>• Convert numbers between logarithmic form and standard form</li> </ul> <ul style="list-style-type: none"> <li>• Classify a triangle according to its sides/angles</li> <li>• Explain the terms related to a</li> </ul>
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	<p><b>Unit 5: Statistics</b></p> <p><b>Chapter 14:</b> Frequency Distribution</p> <p><b>Chapter 15:</b> Mean And Median of Ungrouped Data, Frequency Polygon</p> <p><b>Unit 6: Mensuration:</b></p>	<p>triangle</p> <ul style="list-style-type: none"><li>• Describe the properties of a triangle</li><li>• State/Apply theorems involving properties of a triangle</li><li>• State the definition of congruent triangles</li><li>• Determine the correspondences between parts of congruent triangles</li><li>• Know/apply these methods for proving congruence of triangles: SSS, SAS, ASA, and AAS</li><li>• Recognize the types of conclusions that can be established by using CPCTC</li><li>• State/apply theorems involving inequalities in a triangle</li></ul> <ul style="list-style-type: none"><li>• Collect/Organize data for appropriate statistical analysis</li><li>• Effectively display the information in data sets graphically in the form of a histogram and frequency polygon</li><li>• Describe different ways to represent a data like mean, mode and median</li><li>• Describe/apply the formulas to calculate mean, mode and median</li></ul> <ul style="list-style-type: none"><li>• Apply the concepts learned to solve real world problems</li></ul>
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	<p><b>Chapter 16:</b> Perimeter and Area of Plane Figure</p> <p><b>Chapter 17:</b> Circumference and area of a circle</p> <p><b>Unit 1:Pure Arithmetic:</b></p> <p>Chapter 1-Rational and Irrational Numbers</p> <p><b>Chapter 20:</b> Co-ordinate Geometry</p>	<ul style="list-style-type: none"> <li>• State different units of measurements</li> <li>• State/apply the formulas to calculate area of plane figures</li> <li>• Calculate areas of irregular figures</li> <li>• Apply the concepts of mensuration to solve real world problems</li> <li>• State/apply the formulas to calculate volume and surface area</li>   <li>• Recognize different types of number systems</li> <li>• Understand the arithmetical properties of the numbers</li> <li>• Perform arithmetical operations with complex numbers</li> <li>• Represent a rational number on number line</li> <li>• Perform the Rationalization operation and explain its importance in making the calculations easy</li>   <li>• Understand that a linear function can be represented in multiple ways (e.g., graph, table, equation)</li> <li>• Explain the basics of co ordinate system</li> <li>• Identify ordered pairs that solve a linear equation</li> </ul>
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		<ul style="list-style-type: none"><li>• Represent a linear equation on a graph paper</li><li>• Solve a pair of simultaneous equations graphically</li></ul>
<b>PHYSICS</b>	<p><b>Unit1 : Measurement</b></p> <p><b>Chapter 1:</b> Measurement and Experimentation</p> <p><b>Unit 2: Pressure</b></p> <p><b>Chapter 4:</b> Pressure in fluids and Atmospheric Pressure</p> <p><b>Chapter 5:</b> Upthrust in Fluids and Archimedes' Principle</p>	<ul style="list-style-type: none"><li>• Describe the need of a physical quantity and its unit.</li><li>• Convert quantities from one unit system to another.</li><li>• Use Vernier Callipers to calculate thickness</li><li>• Use Screw Gauge to calculate Diameter of a wire</li><li>• Measure the time period of a simple pendulum</li><li>• Apply the concepts in solving real life problems.</li> <li>• Differentiate between thrust and pressure</li><li>• Describe the laws of liquid pressure.</li><li>• Apply the formula <math>P = h\rho g</math> to solve various word problems related to liquid column</li><li>• State and apply Pascal's Law.</li><li>• Describe atmospheric pressure and its common consequences</li><li>• Explain the working and construction of different types of barometer.</li><li>• Explain the application of barometer in weather forecasting.</li><li>• Explain up thrust and buoyant force</li><li>• Describe Archimedes Principle</li></ul>

	<p><b>Unit3: Motion</b></p> <p><b>Chapter 2: Motion in one Dimension</b></p> <p><b>Chapter 3: Laws of Motion</b></p>	<p>and its applications.</p> <ul style="list-style-type: none"> <li>• Verify the Archimedes principle experimentally.</li> <li>• Measurement of relative density by Archimedes Principle</li> <li>• Describe and apply the principle of Flotation</li> <li>• Differentiate between scalar and vector quantities.</li> <li>• Apply the equations of motion to solve simple real life problems</li> <li>• Represent the distance/displacement time data graphically and analyse it</li> <li>• Describe the concepts and examples of contact and non contact forces</li> <li>• Describe laws of motion, inertia and momentum with respect to various events in the surrounding.</li> <li>• Explain universal law of gravitation and apply it in word problems.</li> </ul>
<p><b>CHEMISTRY</b></p>	<p><b>Chapter 4:</b> Atomic structure and chemical bonding</p> <p><b>Chapter 1:</b> The language of</p>	<ul style="list-style-type: none"> <li>• Understanding valence shells and its accommodation.</li> <li>• Solving Organic reactions</li> <li>• perform calculations and draw reasonable, accurate conclusions.</li> <li>• Identify symbols and formulae</li> <li>• Understand and write chemical reactions</li> <li>• Balance a chemical reactions</li> </ul>

	<p>Chemistry</p> <p><b>Chapter 2:</b> Physical and chemical changes</p> <p><b>Chapter 3: Water</b></p>	<ul style="list-style-type: none"><li>• Calculate molecular mass</li><li>• Understand new terms</li> <li>• Analyze difference between physical and chemical change</li><li>• Scientific method of thinking</li><li>• synthesize, separate and characterize compounds</li><li>• accurately interpret numerical data</li><li>• Ability to learn new information rapidly and efficiently</li><li>• Gathering data, making and testing models and predictions</li><li>• practical skills</li><li>• Analyzing and modeling a physical process</li><li>• Skills with chemical instrumentation</li><li>• Distinguishing the different waterborne diseases</li></ul>
<p><b>BIOLOGY</b></p>	<p><b>Unit 1:</b> <b>BASIC BIOLOGY</b> <b>Chapter 2:</b> Cell- The Basic Unit of Life <b>Chapter 3:</b> Tissues - Plant and Animal Tissues</p>	<ul style="list-style-type: none"><li>• Define cell</li><li>• State major postulates of Cell Theory</li><li>• Draw diagram to represent basic structure of the cell</li><li>• Differentiate between plant and animal cell</li><li>• Explain structure and functions of various cell organelles</li><li>• Differentiate between Prokaryotic and Eukaryotic Cell</li><li>• Understand tissue as combination of cells</li></ul>

	<p><b>Unit 2:</b>  <b>FLOWERING PLANTS</b>  <b>Chapter 4:</b> The Flower  <b>Chapter 5:</b> Pollination and Fertilization</p> <p><b>Unit 3:</b>  <b>PLANT PHYSIOLOGY</b>  <b>Chapter 6:</b> Seeds- Structure and Germination  <b>Chapter 7:</b> Respiration in plants</p>	<ul style="list-style-type: none"> <li>• Classify Plant Tissues</li> <li>• State the characteristics and location of various types of plant tissues</li> <li>• Classify Animal Tissues</li> <li>• State the characteristics and location of various types of animal tissues</li> <li>• Explain the structure and functions of various tissues</li>   <li>• Explain and draw structure of bisexual flower</li> <li>• Write a general description and function of the floral parts</li> <li>• Explain the significance of self and cross pollination</li> <li>• Differentiate between self and cross pollination</li> <li>• Give Examples of pollination</li> <li>• Explain the process of fertilization in flowering plants</li>   <li>• Define Fruit and seed</li> <li>• Draw and label diagrams of dicot and monocot seeds</li> <li>• Define germination of seeds and explain its types</li> <li>• Differentiate between epigeal and hypogeal germination</li> <li>• List conditions necessary for germination</li> <li>• Understand respiration as a process of energy liberation in plants</li> <li>• Differentiate between photosynthesis and respiration</li> <li>• Differentiate between aerobic</li> </ul>
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	<p><b>Unit 4:</b> <b>DIVERSITY IN LIVING ORGANISMS</b> <b>Chapter 8:</b> Five Kingdom Classification <b>Chapter 9:</b> Economic Importance of Bacteria and Fungi</p> <p><b>Unit 5:</b> <b>HUMAN ANATOMY AND PHYSIOLOGY</b> <b>Chapter 10:</b> Nutrition</p>	<p>and anaerobic respiration</p> <ul style="list-style-type: none"><li>• Outline the process of respiration and gaseous exchange</li><li>• Perform experiments to prove various aspects of germination and respiration in plants</li><li>• Outline the classification of living organisms in five kingdoms</li><li>• List down main characteristics of each kingdom of living organisms with suitable examples</li><li>• Classify various organisms in different phylums by observing their characteristics</li><li>• Appreciate the role of bacteria in medicine, agriculture and industry</li><li>• Consider and take appropriate measures against harmful role of bacteria</li><li>• Appreciate Economic importance of Fungi</li><li>• Understand the need of nutrition</li><li>• Classify food items according to nutrients present in them</li><li>• Enlist the functions of different food components</li><li>• Match the nutrients with their sources</li><li>• Understand importance of balanced diet</li></ul>
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		<ul style="list-style-type: none"> <li>• Create diet plan according to specific needs of the person</li> <li>• Identify deficiency diseases through their symptoms</li> <li>• Suggest a diet plan for prevention of deficiency diseases</li> </ul>
<b>HISTORY</b>	<p><b>Unit 1:</b> The Harappan Civilization</p> <p><b>Unit 2:</b> The Vedic Age</p> <p><b>Unit 3:</b> India in 6<sup>th</sup> century BC</p> <p><b>Unit 4:</b> The Mauryan Empire</p>	<ul style="list-style-type: none"> <li>• Understand the importance of History</li> <li>• Identify the steps towards civilization</li> <li>• Identify the cradles of civilization</li> <li>• Find the origin, extent and sources of the Harappan Civilization</li> <li>• Find the causes of Decline of the Harappan Civilization</li> <li>• Identify the sources of early and later Vedic society</li> <li>• Do comparative study of early and later Vedic society</li> <li>• Understand the most famous literary works of the later Vedic period - The Ramayana and the Mahabharata</li> <li>• Identify the causes for the rise of Jainism and Buddhism in the 6<sup>th</sup> century BC</li> <li>• Understand doctrines and impact of Jainism and Buddhism</li> <li>• Identify the sources of information of the Mauryan Empire</li> </ul>

	<p><b>Unit 4: The Sangam Age</b></p> <p><b>Unit 5: The Age of Guptas</b></p>	<ul style="list-style-type: none"><li>• know the rulers of Mauryan empire</li><li>• know about the extent of Ashoka's empire</li><li>• Understand aim of Ashoka's Dhamma and its relevance in present time</li> <li>• Understand that the Sangam Age witnessed an interaction between the North and South of India</li><li>• Identify the various sources to reconstruct the Sangam Age</li><li>• Know about the three major kingdoms- the Chera, the Chola and the Pandya</li><li>• Critically analyze the social and economical condition during the Sangam Age</li> <li>• Understand the background to the rise of Guptas</li><li>• Identify the various sources to reconstruct the Gupta Age</li><li>• Know about the major kings- Chandragupta I, Sumudragupta, Chandragupta Vikramagupta</li><li>• Critically analyze the political history and administration of the Gupta Age</li><li>• Know about contributions to the Progress of Literature and Education</li><li>• Know about developments in the fields of Science, religion,</li></ul>
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<b>GEOGRAPHY</b>	<b>Unit 1 : Our World</b> <b>Chapter 1: The Earth As A Planet</b> <b>Chapter 2: Geographic Grid</b> <b>Chapter 3: Motions of the Earth</b>  <b>Unit 2: Structure of the Earth</b> <b>Chapter 4: Structure</b>	<ul style="list-style-type: none"><li>• Analyse reasons for the Earth of being an unique planet</li><li>• Identify equatorial and polar diameter of the earth</li><li>• Assess the size and measurement of the earth</li><li>• Demonstrate effect of different incidence of angle of sun rays</li><li>• Find out the location and extent of any place exist on the earth surface.</li><li>• Assess and evaluate the climatic conditions of any place with the help of their location.</li><li>• Compare the time zones of Russia and USA.</li><li>• Analyse the reason for addition and deduction of day while crossing International Date Line.</li><li>• Construct opinion about 'What would happen if International Date Line passes through continents'</li><li>• Assess the effects of the Earth's movement</li><li>• Application of new key terms in the real life</li><li>• Compare and contrast different layers of the Earth in the interior part</li><li>• Examine the composition of different layers of the Earth</li><li>• State the properties of core, mantle and crust.</li><li>• Young fold mountains are liable</li></ul>
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	<p>of the Earth</p> <p><b>Chapter 5:</b> Landforms of the Earth</p> <p><b>Chapter 6:</b> Rocks</p> <p><b>Unit 5</b></p> <p><b>Chapter 16:</b> Pollution</p> <p><b>Chapter 17 :</b> Sources of Pollution</p> <p><b>Chapter 18:</b> Effects of Pollution</p> <p><b>Chapter 19:</b> Preventive Measures</p> <p><b>Unit 6</b></p> <p><b>Chapter 20:</b> Natural Regions of the World</p>	<p>to earthquakes and volcanic action.</p> <ul style="list-style-type: none"> <li>• Compare and contrast difference between Epeirogenic movement and orogenic movement</li> <li>• State the properties of igneous, sedimentary and metamorphic rocks</li> <li>• Examine the cause of earthquakes in the belt of young fold mountains</li> <li>• Identify different types of rocks</li> <li>• Discuss different types of weathering</li> <li>• Analyse the factors that affect weathering</li> <li>• Relate weathering to soil formation</li> <li>• Discuss different land forms produced by river and wind</li> </ul>
<p><b>COMPUTER APPLICATIONS</b></p>	<p><b>Unit 1 -</b> Introduction to object-oriented programming</p> <ul style="list-style-type: none"> <li>• <b>Chapter 1:</b> Introduction to object-oriented programming Principles of object oriented programming</li> </ul>	<ul style="list-style-type: none"> <li>• Object Oriented programming, Features of OOP, Basic Elements of OOP (Principles of OOP), an overview of Objects, Classes, Data Abstraction, Encapsulation, Inheritance, Polymorphism</li> <li>• Object types</li> <li>• Class as Abstract Data Type,</li> <li>• polymorphism and data hiding in detail</li> <li>• Basic features of java</li> <li>• Compiler and Interpreter</li> <li>• Java libraries in JDK 1.3</li> </ul>

	<p>concepts.</p> <ul style="list-style-type: none"><li>• Introduction to java</li></ul> <p><b>Chapter 2:</b> Elementary concepts of objects and classes.</p> <p><b>Unit 2: General programming concepts</b></p> <p><b>Chapter 3:</b> Values and data types</p> <p><b>Chapter 4:</b> Operators and expressions in java</p> <p><b>Chapter 5:</b> Input in java</p>	<ul style="list-style-type: none"><li>• Java reserved words</li><li>• Basic Structure in Java Programming</li><li>• Comment Symbols in Java</li><li>• Statement in Java Programming</li><li>• Java programming with BlueJ</li></ul> <ul style="list-style-type: none"><li>• Concept of data types</li><li>• Tokens (Literals, Identifiers, Punctuators, operators Separators, assignment</li><li>• Rules for naming a variable</li><li>• Data types in java</li><li>• Type conversion</li><li>• Functions for mathematical calculations</li></ul> <ul style="list-style-type: none"><li>• Operators Types (Arithmetic, Relational, Logical, Ternary)</li><li>• Nested Conditional Operators; Bitwise Operators</li><li>• Functions/Methods- Defining a Method</li><li>• Components of a Method</li><li>• Types of Methods (Functions)</li><li>• Classes - Class as a User Defined Type</li><li>• Need of a Class, defining a Class, Creating a Class, Access Specifiers</li><li>• Constructor - Types of constructor, Constructor Overloading.</li><li>• Input using scanner class</li></ul>
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	<p><b>Unit 3:</b> Java statements</p> <p><b>Chapter 6:</b> Mathematical library methods</p> <p><b>Unit 7 - Conditional statements in java</b></p>	<p>statements.</p> <ul style="list-style-type: none"> <li>• Methods used for data input.</li> <li>• Using Assignment Statement, Function Argument, Process to input various types of Data by using Stream Classes (java.io), Scanner Class with Syntax and examples.</li> <li>• Flow of Control - Only if statement, if-else-if, Switch Case Statement - Menu Driven Program</li> <li>• Bi-directional flow of control.</li> <li>• Group of 'if' statements</li> <li>• Uses Choice Testing and Debugging;</li> <li>• Types of Errors; Syntax Error; Logical Error; Run Time Error</li> <li>• Mathematical library functions and header files.</li> </ul>
<p><b>ART</b></p>	<p><b>Paper 1: Still Life</b></p> <ul style="list-style-type: none"> <li>• 3D shapes</li> <li>• Object collected from campus</li> </ul> <p><b>Paper 4: Applied Art</b></p> <ul style="list-style-type: none"> <li>• Poster making</li> <li>• Book jacket designing</li> <li>• Logo design</li> <li>• Advert making</li> <li>• Textile design</li> </ul>	<ul style="list-style-type: none"> <li>• Composition</li> <li>• Perspective</li> <li>• Space and formation</li> <li>• Visualization</li> <li>• Association of ideas</li> <li>• Creative and critical imagination</li> <li>• Illustration</li> <li>• Knowledge of mediums</li> </ul>