

YASH MEMORIAL SCHOOL

D-55, BISANPURA, SECTOR- 58, NOIDA

CLASS VIII

ACADEMIC PLANNERS 2021 – 22

Sub: ENGLISH

TERM 1 – APRIL -- SEPTEMBER						
S.NO	MONTH	TOPIC	GRAMMAR	SKILLS ASSESSMENT	SKILLS/COMPETENCIES	NO. OF PERIODS
1	April	1.The Best Christmas present in the world I &II (Prose-1) 2.The Grasshopper and the Cricket (Poem-1) 3.How did the Camel got his Hump (supplementary-1)	1.The Sentence 2.Phrases and clauses 3 Nouns: Kinds	1.Paragraph writing- 'The Best Gift I received' 2.Diary entry 3. Spelling test	Writing Listening Vocabulary	23
2	May	1.The Tsunami (Prose-2) 2.Geography Lesson (Poem-2) 3.Children at work(supplementary-2)	1.Pronoun 2.Adjectives 3.Articles and their Uses	1.Notice writing Speech : Child Labour PROJECT-Threat of Floods/Natural Disaster, Measures taken, rehabilitation ,patriotic songs	Writing Reading listening Application Speaking	17
3	July	1.Glipmses of the past(Prose-3) 2.The selfish giant(Supplementary-3) FA-I (Revision)	1.Verbs 2.Adverbs 3.Auxilaries and morals The present tense	1.Comprehensive passages (Newspaper articles)	Reading Writing Listening	25
FA-1						
4	August	1.Bepin Chowdhary -The lapse of memory (prose-4) 2.Macavity-The mystery Cat (poem-3) 3.The treasure within	The past tense The future tense Active and passive Voice Preposition	1.Recitation 2. Dialogue writing 3.Comprehension passage 1.Advertisement	Speaking Writing Reading Understanding	23

S.NO	MONTH	TOPIC	GRAMMAR	SKILLS ASSESSMENT	SKILLS/COMPETENCIES	NO. OF PERIODS
1	September	Revision	Revision	Revision	Revision	
SA-1						
Term II (September – February) SYLLABUS -2021- 22						
2	October	1.The summit within (Prose-5) 2.The School Boy (poem-5) 3.The fight (supplementary-6)	Direct and Indirect speech Conjunctions	1.Dialogue writing 2.My favourite pet 5.Poetic Devices	Writing, speaking reading listening Application	19
3	November	1.This is Jody’s Lawn (prose-6) 2.A visit to Cambridge (Prose-7) 3.The Duck and the Kangaroo(Poem-6) 4.The Open Window (supple-7)	Parts of speech	2.Extempore speech PROJECT: On monsoon (types of seasons in detail) Record of temperature for a fortnight. Draw a graph of it.	Reading, writing, listening, speaking Creativity Vocabulary	20

4	December	1.When I set out to Lynosses (Poem-7) 2.Jalebis (Supplementary-8) 1.A short monsoon diary(prose-8)	Punctuations	1.Paragraph writing (a)A visit to hill station	Writing, speaking Creativity Vocabulary	26
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		2.On the Grass hopper &Cricket (poem-8)				
FA-2						
5.	January	1.The great stone face I &and I'II(Prose-10) 2.The Comet I &and II (supple-9)	Vocabulary	Comprehension passage Composition	Listening, speaking, writing	23
6	February	Revision for SA-2	Revision	Revision	Revision	
SA -2						

SUBJECT : HINDI

महीना	बसंत भाग 3 भारत की खोज व्याकरण	क्रिया कलाप	योग्यता कौशल	शिक्षक अधिगम के प्रतिफल
अप्रैल मई	ध्वनि, लाख की चूड़ियाँ, अहमदनगर का किला, पुनरुक्त शब्द , वाक्य निर्माण, भाषा, बोली, वर्ण - विचार	*कविता संकलन *कहानी कथन *सस्वर गायन *लाख से बनने वाली वस्तुओं के विषय में जानकारी एकत्रित करें ।	मौखिक- श्रवण वाचन कौशल , लेखन कौशल	छात्रों में संवेदन शीलता तथा भावुकता का विकास करना । पद्य विधा का आनंद उठा पाने की क्षमता का विकास करना। छात्रों में पर्यावरण मैत्री से जुड़ाव की संभावनाएं उत्पन्न करना। छात्र पाठ 2 के माध्यम से घरेलू उद्योग - धंधों का भारतीय समाज में महत्व, ग्रामीण व शहरी संस्कृति म संतुलन की आवश्यकता को सीखेंगे।
जुलाई	बस की यात्रा, दीवानों की हस्ती, तलाश चिट्ठियों की अनूठी दुनिया, तलाश , संज्ञा, सर्वनाम , अनेकार्थी शब्द, कारक, विभक्ति, प्रत्यय, शब्द- परिवार,, अपठित गद्यांश	आपके द्वारा की गयी किसी दर्शनीय स्थल की यात्रा का वर्णन कीजिए ।	लिखित अभिव्यक्ति, मौखिक अभिव्यक्ति,	छात्र यातायात के साधनों का महत्व जानेंगे। विपरीत परिस्थितियों में संतुलन की आवश्यकता को सीखेंगे। छात्र जीवन में पत्रों की आवश्यकता समझने में समर्थ होंगे। छात्रों द्वारा पत्र संस्कृति की जानकारी, भावों तथा विचारों को व्यक्त करना ।
अगस्त	भगवान के डाकिये , क्या निराश हुआ जाए, यह सबसे कठिन समय नहीं , सिंधु घाटी की सभ्यता	*कविता रचना	श्रवण	छात्रों में निस्वार्थ भावना का विकास , आपसी प्रेम सद्भाव , सहयोग की भावना पर बल देना।

	अपठित गद्यांश, समास, क्रिया, विशेषण, अनुच्छेद लेखन	*समाचार पत्रों से अच्छी-बुरी घटनाओं को पढ़कर सुनाना । *नैतिक मूल्यों से जुड़ी कहानियाँ सुनना-लिखना ।	मौखिक लिखित अभिव्यक्ति	छात्र जीवन में कठिनाई आने पर विषमताओं का सामना करना एवं जीवन में प्रत्येक परिस्थिति में उत्साह को बनाए रखना सीखेंगे। छात्रों को समाज में फैले भ्रष्टाचार को देखकर निराश ना होने की सीख देना , निरंतर आशा का दामन थाम आगे बढ़ कदम बढ़ाना।
सितम्बर	कबीर की साखियाँ,संधि, वाक्य विचार ,पद-परिचय, काल,वचन , लिंग,पत्र लेखन, पुनरावृत्ति	*कबीर के अन्य दोहों का संकलन कीजिए । *कक्षा कार्य *गृहकार्य	श्रवण लेखन मौखिक अभिव्यक्ति	छात्र दूसरों के समक्ष अपनी बात को तर्कपूर्ण ढंग से रखने की कला विकसित करना जीवन मूल्यों का विकास सीखेंगे।
द्वितीय सत्र				
अक्टूबर	कामचोर , जब सिनेमा ने बोलना सीखा, उपसर्ग-प्रत्यय, विराम चिन्ह , वाच्य, वाक्य परिवर्तन ,पदबंध	*भारत की पहली मूक एवं बोलती फिल्म के निर्माता,निर्देशक एवं प्रमुख पात्रों के बारे में लिखिए ।	मौखिक अभिव्यक्ति अभिनय श्रवण कौशल सजगता, कुशाग्रता विषय ज्ञान	छात्र परिवार के प्रति अपने दायित्व की समझ विकसित करना सीखेंगे। बच्चों के प्रति समझ व सहनशीलता का विकास करना सीखेंगे। छात्रों को प्राचीन एवं आधुनिक सिनेमा में आए बदलाव से अवगत कराना । रंगमंच के अनुभवों का आदान-प्रदान करना।

नवम्बर	सुदामा चरित, जहाँ पहिया है उपसर्ग-प्रत्यय, अविकारी शब्द पत्र-लेखन	*एकांकी *वाद-विवाद *परियोजना * कक्षा परीक्षा	श्रवण कौशल मौखिक अभिव्यक्ति	विद्यार्थियों द्वारा सच्चे मित्र के व्यवहार की मानव जीवन में उपयोगिता की जानकारी पारस्परिक सहभागिता के माध्यम से प्रदान करना। श्री कृष्ण व सुदामा की अटूट मित्रता की गहराई को समझ पाने की क्षमता का विकास करना। विद्यार्थियों को साइकिल की यात्रा से परिचय कराना ,साइकिल आत्मनिर्भरता में सहायक ,दक्षिण भारतीय ग्रामीण संस्कृति से अवगत कराना।
दिसम्बर	अकबरी लोटा , सूरदास के पद , विलोम शब्द , पर्यायवाची शब्द , अनेक के लिए एक शब्द, मुहावरे, पत्र लेखन	कहानी लेखन सस्वर गायन सूरदास की जीवनी लिखिए।	मौखिक अभिव्यक्ति लेखन अभिव्यक्ति श्रवण कौशल	विद्यार्थियों में व्यंग्य विधा द्वारा समस्याओं को गहराई से उजागर करने की क्षमता में वृद्धि करना। श्री कृष्ण की बाल जीवन का महत्व समझने में समर्थता।
जनवरी	पानी की कहानी , बाज और साँप , अंतिम दौर- एक,दो; तनाव , क्रिया , कारक , समानार्थी शब्द , प्रत्यय , मुहावरे , अलंकार अनुच्छेद लेखन	आत्मकथा की रचना स्वरचित कहानी कक्षा में सुनाना। गृहकार्य	श्रवण कौशल लेखन कौशल भाषण कौशल	छात्र जल ही जीवन है के महत्व को समझने में समर्थ होंगे। छात्रों को प्राणी मात्र की स्वतंत्रता के महत्व से परिचित कराना एवं बाज और साँप के जीवन की विषमताओं से परिचित कराना।
फरवरी	टोपी , , सूचना लेखन , संवाद लेखन , मुहावरे , अपठित गद्यांश	नाटकीकरण कहानी कथन कहानी रचना	श्रवण कौशल लेखन कौशल	छात्रों को लोककथा से परिचित कराना एवं उचित मजदूरी की महत्व की जानकारी देना। टोपी पाठ द्वारा 20 पाठ दछात्र कार्यकुशलता के लिए सहयोग की आवश्यकता सीखेंगे।
मार्च	अक्टूबर से फरवरी तक के पाठों की पुनरावृत्ति			

SUBJECT: SOCIAL SCIENCE

MONTHS	UNIT/ CHAPTER	SUB TOPICS	LEARNING OUTCOME	INNOVATIVE PEDAGOGY/ ART INTEGRATION/ INTER DISCIPLINARY APPROACH	MAP WORK / ENRICHMENT ACTIVITY
April	HISTORY How, When and Where	<ul style="list-style-type: none"> - How important are the dates - What is colonial - Sources of modern Indian history Official records and surveys 	Familiarise students with the proper order of historical events	Prepare a video using Adobe Spark on the major historical events during the british rule. Diagramatic representation of events in the form of historical timeline	Map work on annexation
	HISTORY From Trade to Territory	<ul style="list-style-type: none"> - East India company comes east - The battle of plassey and buxar - Annexation policies - Tipu Sultan - The doctrine of lapse 	To learn about the outstanding personalities remembered for their contribution	Get into groups to research and find out about annexation policies adopted by the British.	Map work on annexation
	SOCIAL AND POL. LIFE The Indian Constitution	<ul style="list-style-type: none"> - Why a country does needs a Constitution? - The Indian Constitution : Key features 	To give an insight into some aspects of the constitution.	Prepare a poster and write and speak on the Preamble of the Constitution .	

	GEOGRAPHY Resources	<ul style="list-style-type: none"> - Resources-Meaning - Types of resources - Conservation of Resources 	To clear concept on resources their meanings types and importance.	Make a pictographic poster on the different types of resources.	
May	HISTORY Ruling the countryside	<ul style="list-style-type: none"> - Major land revenue settlements - Crops for Europe - Indigo cultivation: methods and problems - The "Blue Rebellion" and After 	To understand that British Raj established their strong hold on Indian land through the system of zamindars who exploited the poor peasants.	Debate and Group Discussion	SUMMER- BREAK HOLIDAY H.W. Students to prepare a pocket guide on managing natural and man-made disasters.
	SOCIAL AND POL. LIFE Secularism	<ul style="list-style-type: none"> - Secularism and the Indian Constitution. - Why is it important to separate religion from the state? 	To provide knowledge on one of the most crucial pillar to support democracy.	Role play on real life situations based on casteism.	Poster on Secularism
	GEOGRAPHY Land, soil, water, natural vegetation and wildlife resources	<ul style="list-style-type: none"> - Land use and conservation Factors of soil formation - Degradation of soil and conservation measures Problems of water availability and conservation - Distribution of natural vegetation - Conservation of natural vegetation and wildlife 	To offer an elaborate view of natural resources	<p>Creating slideshows or power point presentations</p> <p>Discussion and debate of the types of species.</p>	<p>Diagram: Soil profile</p> <p>Map work related to the chapter</p>
July	HISTORY Tribals, Dikus and the Vision of a Golden Age	<ul style="list-style-type: none"> - Tribal lifestyles in the 19th cent. - Impact of colonial rule on tribals - Birsa Munda 	To throw light into the various tribal movements and uprisings brought on by the exploitations of the British rule	Role play on the life of tribals in India	

	When People Rebel 1857 and After	<ul style="list-style-type: none"> - Causes of the revolt - Outbreak of the revolt - Reasons for its failure. - Outcome of the revolt 	To understand the events that mark the beginning of the people's uprising	Storyboarding for step by step memorization or visualization	Map work on important centres of revolt.
	SOCIAL AND POL. LIFE Why do we need a Parliament?	<ul style="list-style-type: none"> - Why should people decide? - The role of the Parliament - Who are the people in Parliament? 	To provide the required knowledge on Parliament and how it is considered the single most crucial pillar to support democracy	Brainstorming session on differences bwtween Lok sabha and Rajya Sabha	
Aug	HISTORY Colonialism and the city	<ul style="list-style-type: none"> - Shahjahanabad - Making of New Delhi 	To understand how the British Raj began in India	Presentation of extracts from books or old photographs of the period under study	Collage of Old Delhi/ New Delhi
	SOCIAL AND POL. LIFE Understanding Laws	<ul style="list-style-type: none"> - Do laws apply to all? - How do new laws come about? - domestic violence 	Understand the laws of the country,their importance and how they are made	Make a pictographic poster on an issue that ails our society.	Design a poster on gender equality.
	Judiciary	<ul style="list-style-type: none"> - Unpopular and Controversial laws. - The role of the Judiciary. - What is an Independent judiciary? - Structure of courts in India - Different branches of legal system 	To understand about the body of government responsible for making and upholding laws for smooth and unbiased functioning of the democratic system	Legal procedures should not involve a lot of money and paper work:Discuss and debate	
	GEOGRAPHY Minerals and Power Resources	<ul style="list-style-type: none"> - Types of minerals - Distribution of minerals: world & India - Uses of Minerals - Conservation of Minerals - Power Resources: Conventional and Non-Conventional 	To learn about valuable minerals and places where they are found	Puzzles , games and quiz	Map dictation on: World distribution of Iron, copper, bauxite, mineral oil and coal

Sept	REVISION FOR HALF YEARLY				
Oct	<p>HISTORY Civilising the 'Natives', Educating the Nation.</p> <p>Weavers, Iron Smelters and Factory Owners</p>	<ul style="list-style-type: none"> - The tradition of Orientalism - System of Education in Pre British period - The agenda for a National Education: Gandhi and Tagore's views on Education <p>Indian textile industry and its problems</p> <ul style="list-style-type: none"> - Sword of Tipu Sultans - TISCO 	<p>To understand how the British people viewed Indian education and forced a change towards a more westernized system</p> <p>To know about the two industries i,e textiles and iron and steel that were forbearers of industrial revolutions</p>	<p>Compare and contrast between the gurukul system and the modern school system.</p> <p>Diagrammatic representation of events in the form of historical timeline</p>	
	<p>SOCIAL AND POL. LIFE Understanding our criminal justice system</p>	<ul style="list-style-type: none"> - Role of Police - Role of the Public Prosecutor - Role of the Judge - What is Fair trial? 	<p>To understand the role of a public prosecutor, judges and fair trial</p>	<p>Role play on a court scene.</p>	
	<p>GEOGRAPHY Agricultural practices</p>	<ul style="list-style-type: none"> - Farm system - Types of farming - Major crops - Agricultural development - A farm in USA & India 	<p>To know about all different types of farming and resources that are obtained from agricultural activities</p>	<p>Preparing a collage on a farm in USA and India</p>	<p>Map work on - World distribution of arable land</p>
Nov	<p>HISTORY Women, Caste, and reforms</p> <p>SOCIAL AND POL. LIFE</p>	<ul style="list-style-type: none"> - Working towards change - Caste and Social reform. - Major Reformers and reform movements 	<p>To understand the various social reforms on caste and women brought on by British Raj</p>	<p>Preparing a bulletin board on social reformers of India</p>	

	Understanding Marginalisation	<ul style="list-style-type: none"> - Who are Adivasis? - Adivasis and development - Minorities and Marginalisation 	To understand the idea of social exclusion and its ill effects on society at large	Discuss and debate: Why do we need safeguards for minorities?	
	Confronting Marginalisation	<ul style="list-style-type: none"> - Invoking Fundamental Rights - Laws for the marginalised - Protecting the rights of Dalits and adivasis - Articles 15 & 17 - Adivasis demands and the 1989 Act 	Understand the ways in which our government has provisioned for the safety and survival of the marginalised groups		
	GEOGRAPHY Industries	<ul style="list-style-type: none"> - Classification of industries - Factors affecting location of industries - Industrial system - Distribution of major industries 	To understand about the types, classification and location of industries in India	Discover the changes caused by the industrial revolution	Map work-World's industrial regions
Dec	HISTORY The making of the National Movement : 1870s-1947	<ul style="list-style-type: none"> - The emergence of nationalism - The growth of Mass Nationalism. - Advent of Mahatma Gandhi - The Rowlatt Satyagraha - Khilafat agitation and non-cooperation movement - The March to Dandi - Quit India and later 	To know about the reforms that were brought by the British government which led to the start of nationalism	Write ups followed by a brief discussions	
	SOCIAL AND POL. LIFE Public Facilities	<ul style="list-style-type: none"> - Water and the people of Chennai - Water : Right to life - Public facilities - The government's role 	To understand the concept and importance of public facilities provided by the government	Find out the various kinds of taxes people pay to the government by talking to a salaried person and share your findings.	

SUBJECT : SCIENCE

MONTHS	CHAPTER	LEARNING OUTCOMES	SUB TOPICS	INNOVATIVE PEDAGOGY	ACTIVITIES
April	1.Crop Production and Management	Crop plants, Agricultural Practices, Food Production from Animals.	To make them aware about the types of important crops according to their sessions.	Interactive class discussion about types of crop plants. Learning agricultural practices	To separate damaged seed from good one. Make a list of the crops and classify them into Rabi and Kharif crops.
	3. Synthetic fibers and plastic	Natural fibres, Cotton, wool, Silk, linen, flex Synthetic fibres like Rayon, Nylon, Polyester etc.	To help them in distinguishing natural and synthetic fiber	Role play on thermoplastic and thermosetting plastic	Make a list to distinguish between that fibers are biodegradable and non-biodegradable.
May	16. Light	To make them aware about reflection laws of Reflection, angle of incidence, angle of reflection, Lateral inversion.	Reflection of light, reflection from a plain mirror, multiple images, dispersion, Human Eye Structure.	Redrawing plane mirror images, calculation of number of images using mirror formula.	Using plain mirror find out the characteristics of image formed. Draw ray diagram to show multiple image.
	7. Conservation of plants and animals	To make them research on the types of category of rare and endanger species.	Biodiversity, Endemic species, Conservation of wildlife, protected area, Flora and fauna Project tiger	Discussion and debate of the types of species,Red Data Book.	To prepare a list of wild life Sanctuaries and National parks.

July	8. Cell- Structure and Functions	To make them understand about the structure of cell and functions of their organelles.	Cell shape, unicellular and multicellular, Structure of cell, Difference between plants and animal cell	Drawing cell structure and labelling of various cell organelles.	To study animal cell and plant cell with the help of slides
	4. Metals and non-metals	To develop skill to learn properties of metals and non-metals and their uses.	Metals, Non-metals, Chemical properties of metals, the reactivity series uses of metals, uses of non-metals,	Tabulating physical and chemical properties with most important and exceptional properties.	To show the oxidation reaction of magnesium. To show the reaction of sodium with water
	13.Sound	To make them understand about terms used in explaining sound and its characteristics.	Vibration, Musical Instrument. Characteristics of sound range of sound. How is sound produced? Noise pollution and its preventive measures.	Using tuning fork in producing sound vibrations and characteristics of sound using frequency app.	To show that sound travel fastest in solids. To show that sound needs medium to travel

August	<p>11. Force and Pressure</p> <p>5. Coal and Petroleum</p> <p>2. Microorganisms: Friend and Foe</p>	<p>To recall about the definition of force and its effects. To make them understand about formula of force, pressure, area, numerical on force and to develop skill to apply force and pressure in daily life.</p> <p>To help them in defining and understanding origin and processing of coal and Petroleum.</p> <p>To make them understand about the structure of microorganism their usefulness and harmful effects.</p>	<p>Forces are due to interaction, Different types of forces, Pressure, Pressure in fluids. Atmospheric pressure.</p> <p>Formation of coal, petroleum, natural gas and their various uses.</p> <p>Habitat of microorganisms like bacteria, viruses, algae, Fungi, Protozoa, Disease causing microorganism,</p>	<p>Understanding the concept with definition, practicing numerical on force and pressure.</p> <p>Group discussion or role play on PCRA and refining of petroleum.</p> <p>Understanding about the the diseases caused by various microbes. important inventions like pasteurization, vaccine etc.</p>	<p><u>Art Integration</u> Role Play showing various types of forces and effect of force can be Organised</p> <p>To discuss in the class" CNG as an eco-friendly fuel. To mark the places on map, where coal and oil refineries are located in India.</p> <p>To study the slides of bacteria, algae protozoa etc. To list out the various methods of food preservation.</p>
September	Revision for TERM I				
October	9. Reproduction in animals	To make them understood about the concept of various types of reproduction in human and in different animals.	Sexual reproduction in animals, Reproduction in human beings, Development of Embryo, asexual reproduction.	Discussion in the class on various types of reproduction and drawing diagram.	To study the slide of budding of yeast hydra. Make a list of viviparous and oviparous animals.

					To make a list of liquids that conduct electricity.
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	12. Friction	To help them in understanding about causes of friction and ways to reduce the friction.	Causes of friction, Types of friction, Friction by liquids and gases,	Hands on activities to produce friction and reduce friction .	To show that rolling friction is less than limiting friction. To demonstrate that sliding friction is greater than rolling friction.
January	17.Stars and The Solar System	To make them learn and understand about astronomical units and concepts with diagrams. Also to make them practice to calculate about distances from sun and other planets from earth.	Solar system, moon and its surface, Other member of solar system. Light year satellites etc.	Drawing shapes of constellations and solving distances of sun, satellites and various planets from earth.	To observe the various pattern of constellation and make a chart. Discuss in the class "Uses of Artificial Satellite"
	18. Pollution of air and water.	To make them study about causes and effects of air and water pollution.	Pollutants, Sources of air pollution, Harmful effect of air pollution .Water pollution,	Understanding research and observation of various causes of pollutions.	To make a list of air pollutants and their effects on human beings. To discuss in the class "Harmful effects of water pollution"
February	Revision for TERM II				
TEXT BOOK: NCERT					

SUBJECT : MATHEMATICS

Month	Topic	SUB TOPICS	LEARNING OUTCOMES
April	Rational numbers Algebraic Expressions and Identities	Properties of rational numbers Additive Identity and Additive Inverse Multiplicative Identity and Multiplicative Inverse Representation of rational numbers on a number line Rational numbers between two rational	Students would be able to- Generalizes properties of addition, subtraction, multiplication and division of rational number through patterns Plot rational numbers on number line. Finds out as many rational numbers as possible between two given rational number Multiplies algebraic expression Students would be able to- Uses various algebraic identities in solving problem of daily life.
May	Linear Equations in one variable Understanding Quadrilaterals	Solving Equations. Simplifying word problems Polygons Properties of parallelogram	Students would be able to- Makes hypotheses on chances of future events on the basis of its earlier occurrences or available data like, after repeated throws of dice and coins Students would be able to- Illustrate angle sum property and exterior angle property of parallelogram and triangle
July	Practical Geometry Data handling	Construction of Quadrilaterals. Representation of rational numbers on a number line Rational numbers between two rational Organizing and grouping data Graphical Representation Probability	Students would be able to- Construct rectangle, square using compasses and straight edge Students would be able to- Represents 3 D shapes on a plane surface such as sheet of paper, graphical representation of grouped and ungrouped data Calculating probability of an event in various situations

October	Algebraic Expressions and Identities	Representation of rational numbers on a number line Rational numbers between two rational numbers. Basic operations on Algebraic Expressions Identities and their Applications.	Students would be able to- Uses various algebraic identities in solving problem of daily life. Find the value of required multiplicative identity and multiplicative inverse. Solve simple equation in one variable and multiplies algebraic expression.
November	Visualising Solid Shapes (Activity oriented) Mensuration	Polyhedron, and Platonic Solids Euler's Formula Perimeter and area of trapezium, General Quadrilateral, Special Quadrilaterals, Polygons, Total, lateral and curved Surface Area of cube, cuboids and cylinder Volume of cube, cuboids and cylinder	Students would be able to- Construct solid shapes from paper by drawing its net. Verify Euler's relational pattern Students would be able to- Calculate the area and Volume Calculate surface area and volume of cylinder and cuboid
December	Powers and Exponents Direct and Inverse Variations	Laws of Exponents Powers with negative Exponents Small numbers in standard form. Direct Variation and its application Inverse Variation and its application	Students would be able to- Organizing the data. Judging the best way of finding the area by measuring using thread. Solve problems with integral exponent. Finding powers and exponents using different data. Students would be able to- State the definition of direct and inverse proportions Construct different quadrilateral using compasses and straight edge.

January	<p>Factorisation</p> <p>Introduction to Graphs</p> <p>Playing with numbers (Activity oriented)</p>	<p>Factorisation of polynomials by taking common factors</p> <p>Factorization using Identities.</p> <p>Cartesian system Linear Graphs.</p> <p>Number puzzles and games</p> <p>Divisibility test rules</p>	<p>Students would be able to- Identify the identity in two polynomials.</p> <p>Students would be able to- Finds factorisation between two quantities. Solve problems using unitary method, represents linear equation graphically</p> <p>Students would be able to- Producing formulas and rules using algebraic expressions. to find volume and area</p>
February	Revision for Final Examination		

SUBJECT : COMPUTER SCIENCE

MONTH	TOPIC	LAB ACTIVITIES	LEARNING OUTCOMES
April	<ul style="list-style-type: none"> Introduction to Artificial Intelligence 	<ul style="list-style-type: none"> simple experiments that make it easier for anyone to start exploring machine learning, through pictures, drawings, language, music, and more 	<p>After completion of the unit, learners will be able to describe: The relation and application of AI in their daily life</p>

May	<ul style="list-style-type: none"> COMPUTER NETWORK 	<ul style="list-style-type: none"> Access to remote information. Person-to-person communication. File sharing using network Networking devices Lab setup in which topology Using of topologies 	Students will be able to understand about the different concepts of Networking and Protocols related to Networking
July	<ul style="list-style-type: none"> Database Management with MS Access Using Tables in MS Access 	<ul style="list-style-type: none"> Creating tables Table formats Working with a Database Table Filtering Data Creating Relationship between Tables Creating Forms 	<p>Students will get a concept of Database and its relevance in software development.</p> <p>Students will get a clear understanding of the importance of Forms and Reports and how to set relationship between tables.</p>
August	<ul style="list-style-type: none"> MS ACCESS QUERY & REPORT 	<ul style="list-style-type: none"> The Query Creating a Query Understanding Query Options Using Criteria in Query Sorting Data in a Query 	Students will be able to create a Query based on a criteria and sort the same
September	Revision & Term 1 Examination		
OCTOBER	<ul style="list-style-type: none"> Creating websites using HTML 	<ul style="list-style-type: none"> Creating webpage Using of tags(font, link, marquee) Using Tables in Web page 	<ul style="list-style-type: none"> Students will able to build own website Resolve HTML codes It helps the students how to make things accessible.

November	<ul style="list-style-type: none"> • Image Editing with Photoshop 	<ul style="list-style-type: none"> • Merging image • Crop Image • Set of layers in Photoshop • Resizing of images • Lasso Tool • Rotating image 	<ul style="list-style-type: none"> • Students will learn the basic tools used in Adobe Photoshop to create and edit images. Students will learn how to optimize images and save images in proper file formats. Students will learn color selection and conversion as it relates to both Web and business publications
December	<ul style="list-style-type: none"> • Python Review • More on Python 	<ul style="list-style-type: none"> • Understanding python language • Use of logics in python • Use of mathematics functions 	<ul style="list-style-type: none"> • When students complete Intro to Programming with Python, they will be able to: Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions. Work with user input to create fun and interactive programs.
January	<ul style="list-style-type: none"> • Introduction to App Development 	<ul style="list-style-type: none"> • Introduction to App • Android and iOS • Categories of Apps • Developing an App • Types of App • Working with Apps 	<ul style="list-style-type: none"> • Students will be able to differentiate between Android and iOS platform and also understand the various categories and types of Apps • Development of App to Solve a Problem
February	<ul style="list-style-type: none"> • Revision of term 2 		
March	Term 2 Examination		