

**SPLIT SYLLABUS 2023-2024**

**SUBJECT: ENGLISH**

**CLASS: VII**

**TEXT BOOK – HONEYCOMB**  
**An Alien Hand**  
**Superb English Grammar**

TERM-1	ASSESSMENT	MONTH	CHAPTER & Sub Topics	LEARNING OBJECTIVES	ACTIVITIES	SYLLABUS COVERAGE
APRIL TO SEPTEMBER	PT-1 <b>Max M: 40</b> <b>(Weightage 5m)</b>	APRIL	<b>Ch 1-Three Questions, Poem 1-the Squirrel</b> <b>Lesson 1-The Tiny Teacher</b> <b>GRAMMAR-</b> Let us Revise,Nouns,Pronouns,Adjectives, Determiners <b>WritingSkills:Formal Letter</b>	Thinks critically about characters, events, ideas, themes and relates them to life in order to compare them. Read aloud stories and recites poems with appropriate pause, intonation, and pronunciation	Draw a mind map on the story and reflect on the values learnt from the story.	30% of Term 1
		MAY-JULY	<b>Ch 2-A Gift of Chappals</b>  <b>Poem 2- The Rebel</b>	To research on the role of cats in Indian history, their representation in Egyptian history Assess quality of characters and write character sketches  Children understand that wild animals have their rights to live. They will show compassion and humility towards wild animals.	You have helped a needy person recently. Write a letter to your friend	

		<p><b>Lesson 2-</b></p> <p><b>Bringing up Kari</b></p> <p><b>Ch 3-</b></p> <p><b>Gopaland the Hills and the Fish</b></p> <p><b>Poem 3- The Shed</b></p> <p><b>Lesson 3- The Desert</b></p> <p><b>Grammar:</b> Verbs, Subject Verb Agreement, Present Tense, Past, Tense</p> <p><b>Writing Skills:</b> Notice Writing Informal letter, Paragraph Writing</p>	<p>Recognize the genre of folk tales and graphic text. Create a story based on pictures provided in the text. Enact a role play on the chapter.</p> <p>Recognize the fears and the insecurities of a small child in the poem</p> <p>Exposing the learners to a wonderful part of nature, the desert and enable them to use new words and phrases.</p>	<p>sharing the experience of the same and also advocating for the fact of “A help in need is a help indeed”.</p> <p>Draw a comic strip on any humorous topic.</p>	
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	<p>SEPTEMBER</p>	<p><b>Lesson 5-Quality</b></p> <p><b>Poem 5-Trees</b></p> <p><b>Lesson 5- Golugrows A Nose,</b></p>	<p>To become a master at any skill, it takes the total effort of your heart, mind and soul working together in unison.</p> <p>To understand the values of trees on mankind. Prepare own mind map to recall the uses of trees</p> <p>Perform a role play including all the characters who helped Golu in his quest. Understanding of character and their hardships.</p> <p>Children empathize with the character and learn that every living being, human or animal, should be given their freedom.</p>	<p>Write a story including different zoo animals. Include conversations between the characters.</p>

			<p><b>LESSON 6-</b> Iwantsomethinginacag e</p> <p><b>Grammar:</b> Adverbs, Active and Passive Voice</p> <p><b>Writing Skills:</b> story Writing</p>			
	<p>PT2 <b>Max M:</b> <b>80</b> <b>(Weighta</b> <b>ge 80 m)</b></p>					<p>30 + 20 = 50% Of Annual Syllabu s</p>
<b>TERM- 2</b>		OCTOB ER	<p><b>Ch 6- ExpertDetectives</b></p> <p><b>Poem 6-</b> <b>Mysteryofthetalkingfa n</b></p> <p><b>Lesson 7- Chandni</b></p>	<p>RecognizethegenreandelementsofIndianmysterystory</p> <p>Readthepoemwithproperintonationand recognize thepoeticdevices</p> <p>Read and locate the main ideas i.e thoughlookedafterwellChandnidecidedtopay a higherpricetoretainherfreedom</p>	<p>Imagine yourself being a young Sherlock Holmes, solve the mystery of your</p>	

			Grammar: Preposition, More About Conjunctions		friend's lost pen.
OCTOBER TO MARCH	NOVEMBER	<p>Ch 7- <b>The Invention of Vitawonk</b></p> <p>Poem 7- <b>Dad and the cat and the tree</b></p> <p>Lesson 8 <b>Fire: Friend and Foe</b></p> <p>Poem 8- <b>Meadow Surprises</b></p>	<p>Recognize and analyze the main ideas such as to stand up for yourself for other people and remain calm even in the face of considerable provocation. Dramatize, role play sections.</p> <p>Demonstrate appreciation of the humour</p> <p>Analyze and recognize symbolism, For example the symbolism of fire in our life.</p> <p>Appreciate nature and show compassion towards all the creations</p> <p>To enable the students to know about the possibility of friendship between human beings and wild animals. To enable the learner to have faith on their pet. To enable the students to be loyal to their master.</p>	Write a book report on Charlie and the chocolate factory.	

		<p><b>Lesson 8- TheBearstory</b></p> <p><b>Grammar:</b> Reported Speech, Phrases and Clauses</p> <p><b>Writing Skills:</b> Speech Writing</p>			
	<p><b>DECEMBER</b></p>	<p>Ch 9- <b>ABicycleingoodRepair</b></p> <p><b>Poem 9- Gardensnake</b></p> <p><b>Lesson 9- ATigerinTheHouse</b></p> <p><b>Grammar:</b> Sentences- Simple, Compound and Complex, Non- Finites, Words often confused</p> <p><b>Writing Skills:</b> Diary Writing</p>	<p>Relate personal experience of riding bicycles. Frame a story based on the incident provided</p> <p>Use resources to gather information on garden snakes. Compare and contrast garden snakes and poisonous and non-poisonous snakes.</p> <p>Understand that young ones of all creatures require love, care and attention.</p>	<p>Imagine you have saved a wild animal and decided to take care of it for a short amount of time. Write a diary entry detailing your experience.</p>	

	PT-3 Max M: 40 (Weightage 5m)				30% of Term 2
	JANUARY	<p>Ch 10- <b>TheStoryofCricket</b></p> <p>Lesson 10- <b>AnAlienHand</b></p> <p><b>Grammar-</b> Idioms and Proverbs, Synonyms and Antonyms, One word Substitution</p>	<p>Compare and contrast ancient and moderncricket. Assess and analyze the reasons for thepopularityandgrowthofcricketonIndianand internationalground.</p> <p>Recognize and classify the genre of sciencefictionanditselements. Identifythescience.Fiction trope on commenting on somethingfamiliarbyplacingitinanunfamiliarsetup</p>	Write about your favorite Cricket player.	
	FEBRUARY	<b>REVISION</b>			

	<p>ANNUAL EXAMINA TION <b>Max M:</b> <b>80</b> <b>(Weighta ge 80 m)</b></p>	<p>MARCH</p>	<p>ANNUALEXAM</p>	<p>20 % of Term 1 + Entire syllabu s of Term 2</p>
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**SPLITUP SYLLABUS-2023**

**CLASS-VII  
SUBJECT-SST**

**TEXTBOOK HISTORY; NCERT OUR PASTS – II : GEOGRAPHY NCERT OUR ENVIRONMENT; CIVICS NCERT SOCIAL AND POLITICAL LIFE-II**

TERM-1	ASSESSMENT	MONTH	CHAPTER & Sub Topics	LEARNING OBJECTIVES	ACTIVITIES	SYLLABUS COVERAGE
APRIL to SEPTEMBER	UT-1/PT-1 Max M:40 (Weightage 5m)	APRIL	HISTORY : TRACING CHANGES THROUGH A THOUSAND YEARS New and old Terminologies, Historians and their sources, New and Political Groups , Old and New Religions , Thinking about Time and Historical periods.	Learning about the importance of remains of ancient monuments, weapons, utensils , currencies and other such artefacts together with any written records of the period either in papers , scriptures or simply by way of symbols and signs made on the walls , helped historians in tracing changes over a period of several years.	Iconography on coins (coins making)- Design coins of the early Medieval Period using clay to understand the economic condition of a kingdom.	30% of Term 1
			HISTORY : NEW KING AND KINGDOMS The Emergence of New Kingdoms, Administration in the Kingdoms, Prashastis and Land Grants, Warfare for Wealth, A Closer Look: The Cholas, From Uraiyur to Thanjavur, Splendid Temples and Bronze	Analysis different types of taxes, land grants, Prashasthi . Understand about the Cholas rule and their Administration.	Discuss the developmental achievements of Cholas and collect pictures of temples and	

			<b>Sculptures, Agriculture and Irrigation, Administration of the Empire.</b>		<b>sculptures to show their success on a chart paper.</b>	
			<b>GEOGRAPHY: ENVIRONMENT</b> <b>Components of the Environment, Biotic and Abiotic, Natural Environment, Human made Environment, Human Environment, Atmosphere, Ecosystem.</b>	<b>Analysis the relationship between natural environment and human habitation. Appreciate the needs of transport and communication for the development of the community and make the world as global society .Explain about Biotic and Abiotic components of the earth and its Relationship.</b>	<b>Design a poster on the theme odd and even in Delhi on A4 sheet incorporating appropriate content heading and slogan.(Pollution Control)</b>	
			<b>CIVICS: ON EQUALITY</b> <b>Equal Right to Vote, Universal Adult Franchise, Other Kinds of Equality, Recognising Dignity, Equality in Indian Democracy, Issues of Equality in Other Democracies , Challenge of Democracy.</b>	<b>Understand the importance of the idea of equality in democratic country. Appreciate a representative form of government and have the knowledge of Indian Constitution.</b>	<b>Mock Election. (Adult Franchise Method)</b>	
	<b>MAY</b>		<b>HISTORY:THE DELHI SULTANS</b> <b>Finding Out About the Delhi Sultans ,From Garrison Town to Empire: Expansion of Delhi Sultanate, A Closer look : Administration and</b>	<b>Explain the reason for the establishment of Delhi Sultanate rule in India. Identify the area ruled by</b>	<b>Make a Timeline of Delhi Sultans and explain only one special</b>	

	<p>PT2 MM:80 (Weightage 80m)</p>		<p><b>Consolidation Under the Khaljis and Tughlaqs, Sultanates of the Fifteenth and Sixteenth Centuries.</b></p>	<p><b>Delhi Sultanate. State the various social political and economic aspects of the Sultanate period.</b></p>	<p><b>feature of the rulers for the expansion of their territory in India.</b></p>	<p><b>30+20=50% Of Annual Syllabus</b></p>
		<p><b>GEOGRAPHY : INSIDE OUR EARTH</b> Interior of the Earth-Crust, Mantle and Core, Rock and Minerals, Types of Rocks- Sedimentary Rocks , Metamorphic Rocks and Igneous Rocks , Rock cycle.</p>	<p><b>Evaluate the structure of earth and its layers (crust ,mantle and core) . Explain the different types of rocks .Describe the formation of rocks with the help of diagram.</b></p>	<p><b>Playing a rock game where in children have to match the properties of different rocks written on slips by teacher and make a record of it on a response table in their notebook.</b></p>		
<p><b>JULY</b></p>		<p><b>CIVICS:ROLE OF THE GOVERNMENT IN HEALTH</b> What is health, Healthcare in India, Public and private healthcare services, Healthcare and equality: Is adequate healthcare available to all?, What can be done? The Kerala experience, The Costa Rican approach.</p>	<p><b>Explain about the role of the government in taking decisions to improve the health of the people, Healthcare system in India and types of healthcare facilities available in India (Private and Public). Analyse the work of government through the case study of Kerala and</b></p>	<p><b>Role play on the health care services provided by the government and private hospital.</b></p>		

			Costa Rica.	
		<b>HISTORY:THE MUGHAL EMPIRE</b> <b>Who Were The Mughals ?</b> <b>Mughal Military Campaigns,</b> <b>Mughals Traditions of Succession , Mughals Relations With Other Rulers, Mansabdars and Jagirdars, Zabt and Zamindars, A Closer Look: Akbar's Policies, The Mughal Empires In The 17th Century And After.</b>	<b>Describe the reason for the establishment of Mughal Empire .Explain the qualities that made Babur and Akbar the Great successful. Explain the fall of the Mughal Empire.</b>	<b>Creating a scroll- Making a scroll of Akbar Nama presenting the doctrines of Din -i- Ilahi and Sulh-i- kul creatively.</b>
		<b>GEOGRAPHY:OUR CHANGING EARTH</b> <b>The Changing Environment on Earth and Its Effects, Earth Movements- Endogenic and Exogenic forces, A Volcano , Earthquakes, Case Study on Earthquake, Earthquake preparedness , Major Landforms: Work of River, Work of Sea Waves ,Work of Ice, Work of Wind.</b>	<b>Understand about the endogenic and Exogenic forces. Analysis the different work of River, Wind, Sea Waves and Ice.</b>	<b>Activity- Volcano Making Model- Make model of volcano using clay and comprehend its components also.</b>
		<b>CIVICS : HOW THE STATE GOVERNMENTWORKS ?</b> <b>Who is an MLA? A debate in the Legislative Assembly ,Working of the government.</b>	<b>Evaluate the nature of decision making within the State Government, Provide knowledge of the different levels of government and provision of services.</b>	<b>Collage making- Prepare a collage of newspaper headlines by comprehending the role of State government in catering the current situations.</b>

		<p><b>AUG UST</b></p>	<p><b>GEOGRAPHY: AIR</b>          Atmosphere ,Composition of the Atmosphere , Structure of the Atmosphere-Troposphere, Stratosphere, Mesosphere ,Thermosphere and Exosphere, Weather and Climate ,Temperature, Air Pressure, Wind and its Types., Moisture and Types of Rainfall.</p>	<p>Demonstrate the atmosphere with its layers. Differentiate between Climate and weather .Explain about the different types of wind and rainfall with the help of diagram.</p>	<p>Map pointing- Locate different pressure belts on the World Physical map to examine the relationship between temperature and pressure belt of an area.</p>
			<p><b>HISTORY: RULERS AND BUILDINGS</b>          Engineering Skills and Construction ,Buildings, Temples ,Mosques ,and Tanks, Why were the Temples destroyed? Gardens, Tombs, and Forts, Region and Empire</p>	<p>Appreciate the range of materials, skills ,and styles used to build water works ,places of worship, palaces and havelis, forts ,gardens.</p>	<p><b>PROJECT WORK(Int ernal assessment)</b>          Model making : Make a Model of temple / Mosque / any other religious place during the time of Mughal rulers.</p>
			<p><b>GEOGRAPHY:WATER</b>          Water Cycle, Distribution of Water Bodies, Salinity of Ocean Water ,Tsunami, Ocean Circulation-Waves, Tides and Ocean Currents.</p>	<p>Knowledge about the water cycle and importance of water. Distribution of water bodies and the movement of Ocean water through waves, tides and ocean</p>	<p>Map work –Locate Ocean Currents on the Physical map of the World .Diagram : Neap Tides and Spring</p>

				currents .Reason for occurrence of tides and ocean currents.	Tides
			<b>CIVICS: GROWING UP BOYS AND GIRLS</b> Growing up in Samoa in the 1920s ,Growing up male in Madhya Pradesh in the 1960s, Valuing housework, Lives of domestic workers, Women’s work and equality.	Knowledge towards gender stereotype and discrimination. Analysis the gender inequality happening in their day to day practices.	<b>PROJECT: FOR INTERNAL ASSESSMENT</b> Debate on gender equality in India.
TERM-2		SEPT EMB ER	Revision		
		OCT OBE R	<b>CIVICS : WOMEN CHANGE THE WORLD</b> Who does the work? Fewer opportunities and rigid expectations, Learning for change- Pandita Ramabai, Rashsundari and Rokeya Sakhawat Hossain ,Schooling and education today, Women’s movement ,Campaigning ,Raising Awareness, Protesting, Showing Solidarity.	Highlights the Gender inequality present in the society. Explain, how women got opportunities of being educated in difficult situations in the past .Explain about women movements to protect their rights.	Speech on great personalities which empowers the women's equality in society
			<b>HISTORY : TOWNS, TRADERS AND CRAFTS PERSON</b> Administrative Centers, Temple Towns and Pilgrimage Centres , A Network of Small Towns ,Traders Big and Small, Crafts in Towns ,A Closer Look : Hampi, Masulipatnam and Surat.	Knowledge about how towns developed in the past .Appreciate about the various craftsmen and traders. Trace the growth and establishment	Map Work: On the Political Map of India, mark the places which where the most important

				of towns.	centres of religion during the medieval period. Collect pictures of the temples or mosques for which these places are famous and paste along with the map on a chart.
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<b>PT-3</b> <b>MM:40</b> <b>(Weightage 5m)</b>		<b>CIVICS: UNDERSTANDING MEDIA</b> Media and its type, Media and Technology, Media and Money ,Media and Democracy, Censorship, Setting Agendas ,Social advertising.	Define the terms Media and Democracy. Understand the importance of media in a democratic country .appraise the importance of media in controlling the government. Fourthly, Understand what will happen if the media is biased or corrupt.	Accordion book- Gather pictures and information on various types of media and compile the same in the accordion book.	<b>30% of Term 2</b>
	<b>N O V E M B E R</b>	<b>GEOGRAPHY: NATURAL VEGETATION AND WILDLIFE</b> Natural Vegetation, factors of Natural vegetation, Types of Natural Vegetation- Forests, Grasslands and Shrubs, Types of Forests- Tropical Evergreen Forests, Tropical Deciduous Forests ,Temperate Evergreen Forests, Temperate Deciduous Forests ,Mediterranean Vegetation, Coniferous Forests ,Grasslands- Tropical Grasslands, Temperate Grasslands and Thorny Bushes.	Define Natural vegetation and wildlife , Categories of vegetation and explain about different types of forest and grasslands.	Flip Class: Impact of deforestation on the environment and the urgent need to protect and conserve our flora and fauna.	
	<b>O C T O B E R</b>	<b>CIVICS: MARKETS AROUND US</b> Weekly market, Shops in the neighborhood, Shopping complexes and malls, Chain of markets ,Markets everywhere, Markets and equality.	Differentiate between different types of market. Understand the importance of market around us. Thirdly,	Scrap book- compile the pictures of different markets they come across in their daily life.	

MARCH			Understands what will happen if the market is closed for one day.		
		<p><b>HISTORY: TRIBES, NOMADS AND SETTLED COMMUNITIES</b>          Beyond Big Cities: Tribal Societies, Who Were Tribal People?, How Nomadic and Mobile People Lived, Changing Society with New Castes and Hierarchies, A Closer Look : The Gonds and The Ahoms.</p>	<p>Knowledge about the tribes and nomads lived in India and their flourished communities. Explain the reason for entering into the main society.</p>	<p>Presentation on the organization of medieval tribal societies through a collage on A4 sheet / chart paper.</p>	
		<p><b>HISTORY:DEVOTIONAL PATH TO THE DIVINE</b>          The Idea of a Supreme God, A New Kind of Bhakti in South India-The Nayanars and the Alvars, Basavanna's Virashaivism, The Saints of Maharashtra, Nathpanthis ,Siddhas and Yogis, Islam and Sufism, New Religious Developments in North India, A Closer Look : Kabir and A Closer Look : Baba Guru Nanak.</p>	<p>Understand the idea of a Supreme God. Evaluate the different ways of doing Bhakti adopted by the other communities.</p>	<p>Recite Dohe of Saint Kabir and speak about his teachings of Bhakti and write the similarities between Bhakti and Sufi saints on A4 sheet.</p>	
ANNUAL EXAMINATION MM:80 (Weightage 80m)	DECEMBER	<p><b>GEOGRAPHY : HUMAN ENVIRONMENT- SETTLEMENT, TRANSPORT AND COMMUNICATION</b>          What is a settlement? What are the types of settlement, Modes of transportation– Roadways, Railways, Waterways and Airways, What is Communication.</p>	<p>Differentiate between the different types of settlement . Appraise the need of transport and communication for the development of the country.</p>	<p><b>Project Work</b> : Collect and paste pictures of different modes of transportation and communication from the early ages to the present times and use the pictures to</p>	20% of

				show the transformation over the ages.	Term 1 + Entire Syllabus of Term 2
		<p><b>HISTORY : THE MAKING OF REGIONAL CULTURES</b>  The Cheras and the development of Malayalam, Rulers and Religious Traditions: The Jagannatha Cult, The Rajputs and traditions of Heroism, The story of Kathak, Paintings for patrons : The Tradition of Miniatures ,Growth of are regional language and development of temples in Bengal, Pirs and Temples , Fish as food.</p>	<p>Appreciate the heroic traditions of various region, and also helped us to know the different dance forms of several regions.</p>	<p>Making a booklet of different dance and art forms of the region they belong to.</p>	
		<p><b>GEOGRAPHY : HUMAN ENVIRONMENT INTERACTIONS- THE TROPICAL AND THE SUB TROPICAL REGION</b>  Life in the Amazon Basin- Climate, Rainforests, People of the Rainforests .Life in the Ganga – Brahmaputra Basin, Vegetation, Wildlife and Cities &amp;Tourism.</p>	<p>Knowledge about the basic necessity of human beings and analyse the life style of people living in different regions of the world through the case study of Amazon River basin and Ganga Brahmaputra river basin</p>	<p>Flash Card : Prepare Flash cards of Amazon and Ganga Basins to show Physical and Cultural features of these areas.</p>	
		<p><b>CIVICS: A SHIRT IN THE MARKET</b>  A cotton farmer in Kurnool, The cloth market of Erode, Putting Out System- Weavers producing Cloth at home, Weaver's Cooperative, The garment exporting factory near Delhi ,A shirt in the United</p>	<p>Evaluate the manufacturing of a shirt to understand all the steps that are involved in the market process. Understand about the Putting- out</p>	<p>Journey of shirt- Create a flowchart on the transformation of fibre into a shirt on a chart paper.</p>	

		States, Who are the gainers in the market? Market. and Equality.	system, Market and Equality.	
	<b>J A N U A R Y</b>	<b>GEOGRAPHY : LIFE IN THE DESERTS</b> The Hot Sahara Desert- Climate, Flora and Fauna, People. The Cold Desert – Ladakh, Flora and Fauna, Climate, People.	Knowledge about the basic necessity of human beings and analyse the life style of people living in different regions of the world through the case study of hot desert and cold desert.	A sneak peak into deserts- Children will differentiate between hot and cold desert through pictorial depiction on A3 size sheet (Collage of pictures)
		<b>CIVICS : STRUGGLE FOR EQUALITY</b> Struggles for Equality, Tawa Matsya Sangh, The Indian Constitution as a Living Document.	Understand that no person can be discriminated on the basis of religion, caste, race or gender by law. Knowledge about the living document i.e. The Indian Constitution.	Prepare Poster with drawings and pictures on the significance of the Constitution/ Preamble/ Right to Equality.
		<b>HISTORY : EIGHTEENTH CENTURY POLITICAL FORMATIONS</b> The crisis of the Empire and the Later Mughals, The emergence of new states, The Old Mughal Provinces- Hyderabad, Awadh and Bengal, The Watan Jagirs of the Rajputs, Independence of the Sikhs, Jats and the Marathas.	Understand about the EIGHTEENTH-century Political formations in India, with the country changing at a very rapid pace. During the first half of the century, the Mughal Empire dwindled as a result of the emergence of independent kingdoms. The second half also saw the British creating a strong	Map pointing- Locate the new emerge regional kingdoms after the decline of Mughal empire in the late 17th century on the Political map of India.

				presence in Eastern India.		
		F E B R U A R Y	REVISIO N			
		M A R C H	ANNUAL EXAMIN ATION			

**BIFURCATION OF SYLLABUS(2023-24)**  
**SUBJECT: MATHEMATICS**  
**CLASS: VII**

**TEXT BOOK -NCERT MATHEMATICS**

TERM I	ASSESSMENT	MONTH	WORKING DAYS	CHAPTER	SUB TOPICS	LEARNING OBJECTIVES	ACTIVITY	SYLLABUS COVERAGE
APRIL TO SEPTEMBER	PT-1 Max M:40 (Weightage 5 m)	April	15	1. INTEGERS	<ul style="list-style-type: none"> <li>➤ Recall number system</li> <li>➤ Positive and negative numbers</li> <li>➤ Addition, subtraction, multiplication and division of integers</li> <li>➤ Properties</li> <li>➤ Closure</li> <li>➤ Commutative</li> <li>➤ Associative</li> <li>➤ Distributive</li> </ul>	<ul style="list-style-type: none"> <li>➤ Recall integers in order to differentiate between whole numbers and integers</li> <li>➤ Represent integers on a number line and perform operations and verify properties of integers.</li> <li>➤ Apply properties of addition, subtraction and multiplication of integers and devise methods for easier calculation and solve problems based on real life related to integers.</li> <li>➤ Apply properties of division of integers and</li> <li>➤ simplify arithmetic expressions.</li> </ul>	To demonstrate multiplication of integers using number line.	30% of Term-1.
		May/June	15	2. FRACTIONS AND DECIMALS	<ul style="list-style-type: none"> <li>➤ Define fraction</li> <li>➤ Addition, subtraction, Multiplication, Division of fractions and decimals</li> <li>➤ Place value table of decimals</li> <li>➤ Decimal conversions</li> </ul>	<ul style="list-style-type: none"> <li>➤ Define proper, improper and mixed fractions in order to distinguish between them. Convert unlike fractions into like fractions in order to compare them.</li> <li>➤ Multiply fractions in order to compare the value of the product with the original fractions.</li> <li>➤ Divide two fractions in order to find the smaller parts of the fraction.</li> <li>➤ Recall and apply concept of decimal representation and expansion in order to perform mathematical operations on decimal.</li> <li>➤ Convert decimals into fractions in order to divide decimal number by another decimal number</li> </ul>	To derive the rule of finding product of two fractions using paper folding method.	

		<b>July</b>	<b>23</b>	<b>3. Understanding Quadrilaterals</b>	<ul style="list-style-type: none"> <li>➤ Definition of data</li> <li>➤ Range</li> <li>➤ Measure of central tendency</li> <li>➤ Mean</li> <li>➤ Median</li> <li>➤ Mode</li> <li>➤ Reading bar graph</li> <li>➤ Construction of double bar graph</li> <li>➤ Probability</li> </ul>	<ul style="list-style-type: none"> <li>➤ Collect, record and present data in order to organize experiences and draw inferences from them. Organize raw data into tabular form in order to make data easier to interpret.</li> <li>➤ Calculate arithmetic mean in order to find its position in the data. Calculate mode of the data in order to find the observation that occurs most often in the data set.</li> <li>➤ Calculate median of the data in order to find the observation that lies in the middle of the data set.</li> <li>➤ Represent data in a bar graph using appropriate scale in order to represent given information in form of a bar graph. Represent data using double bar graph in order to compare and discuss two collections of data at a glance.</li> </ul>	To collect two sets of data, represent this through a double bar graph and interpret it.	
				<b>August</b>	<b>24</b>	<b>4. SIMPLE EQUATION</b>	<ul style="list-style-type: none"> <li>➤ Setting up an equation</li> <li>➤ Solving an equation</li> <li>➤ Solution of an equation</li> <li>➤ Applications of simple equations</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use number and variable with different operations in order to express a real life situation in the form of a simple linear equation.</li> <li>➤ Use trial and error method in order to determine the solution of a simple equation.</li> <li>➤ Explain the first step to be taken in order to separate the variable while solving the given equation. Use the given solution in order to construct equations from it.</li> <li>➤ Construct simple equations in order to solve them for the given contextual problems/puzzle</li> </ul>
						<b>5. LINES AND ANGLES</b>	<ul style="list-style-type: none"> <li>➤ Complementary angles</li> <li>➤ Supplementary angles</li> <li>➤ Adjacent angles</li> <li>➤ Linear pair</li> </ul>	<ul style="list-style-type: none"> <li>➤ Recall the concept of line, line segment and angles in order to identify them in the given figure(s).</li> <li>➤ Examine different angles in order to identify complementary angles. Examine different angles in order to identify supplementary angles.</li> <li>➤ Examine different angles in order to determine the measure</li> </ul>

					<ul style="list-style-type: none"> <li>➤ Vertically opposite angles</li> <li>➤ Transversal</li> </ul> <p>Angles made by a transversal</p>	<p>of their complement and supplement.</p> <ul style="list-style-type: none"> <li>➤ Describe adjacent angles in order to identify a pair of adjacent angles in the given angles.</li> <li>➤ Examine different angles in order to identify linear pair.</li> <li>➤ Describe vertically opposite angles and their property in order to identify them in the given figure.</li> <li>➤ Identify different types of angles in order to determine the measure of unknown angles in the given figure.</li> <li>➤ Discuss the different angles made by a transversal and intersecting lines in order to identify them in the given figure. Use the properties of angles made by a transversal of parallel lines in order to determine the measure of unknown angles.</li> </ul>		
				<p><b>6. THE TRIANGLE AND ITS PROPERTIES</b></p> <ul style="list-style-type: none"> <li>➤ Median</li> <li>➤ Altitudes</li> <li>➤ Angle sum property</li> <li>➤ Exterior angle property</li> <li>➤ Triangle inequality</li> <li>➤ Pythagoras theorem</li> </ul>	<ul style="list-style-type: none"> <li>➤ Compare different triangles in order to classify them on the basis of their sides and angles.</li> <li>➤ Recall the parts of a triangle in order to describe it for the given triangle. Describe median and altitude of a triangle in order to identify it for the given triangle.</li> <li>➤ Apply the exterior angle property of a triangle in order to find the measure of the unknown angle in the given triangle.</li> <li>➤ Apply the angle sum property of a triangle in order to find the measure of unknown angle.</li> <li>➤ Apply the property of lengths of sides of a triangle in order to determine whether a triangle is possible for the given side lengths or not.</li> <li>➤ Apply the Pythagoras property in order to verify whether the</li> </ul>	<p>To verify the angle sum property of a triangle.</p>		

						<p>triangle for the given sidelengths will be right angled triangle or not.</p> <ul style="list-style-type: none"> <li>➤ Apply the Pythagoras property in order to find the length of the unknown side in a right-angled triangle</li> </ul>		
				<p>7. CONGRUENCE OF TRIANGLES</p>	<ul style="list-style-type: none"> <li>➤ Congruency of plane figures</li> <li>➤ Congruent line segments</li> <li>➤ Congruent angles</li> <li>➤ Congruence of triangles</li> <li>➤ SSS</li> <li>➤ SAS</li> <li>➤ ASA</li> <li>➤ RHS Criteria</li> </ul>	<ul style="list-style-type: none"> <li>➤ Experiment superposition of different lengths in order to understand congruence of two line segments and vice versa.</li> <li>➤ Use SSS, SAS, ASA, RHS Congruence criterion in order to examine whether the given triangles are congruent or not.</li> </ul>		
	<p><b>PT-2</b> <b>Max M:80</b> <b>(Weightage 80 m)</b></p>	<p><b>September</b></p>	<p><b>22</b></p>	<p>8. COMPARING QUANTITIES</p>	<ul style="list-style-type: none"> <li>➤ Comparing by division ratio</li> <li>➤ Percentage</li> <li>➤ Application of percentages to profit and loss</li> <li>Simple interest</li> </ul>	<ul style="list-style-type: none"> <li>➤ Convert ratios into like fractions and compare them in order to identify equivalent ratios.</li> <li>➤ Represent equal ratios in proportion in order to find missing term(s).</li> <li>➤ Convert denominators of fractions into 100 in order to represent them in percentages.</li> <li>➤ Convert fractional numbers to percentage in order to make comparing of quantities easier.</li> <li>➤ Convert decimal numbers to percentage in order to make comparing of quantities easier.</li> <li>➤ Convert percentages to fractions or decimals in order to solve real life problems.</li> <li>➤ Calculate increase or decrease in quantity as percentage in order to examine change in quantity based on real life problems.</li> <li>➤ Calculate cost and selling price in order to determine profit/loss percentage.</li> <li>➤ Understand the concept of simple interest in order to interpret word problems.</li> <li>➤ Make use of percentage in order to calculate simple interest for multiple years.</li> </ul>	<p>Collection of 5 different bills and finding the following quantities: SP, Profit or Loss</p>	<p>30+20=50% of Annual Syllabus</p>

<p><b>TERM-2</b> OCT TO MARCH</p>	<p><b>PT-3</b> Max M:40 (Weightage 5 m)</p>	<p><b>October</b></p>	<p><b>14</b></p>	<p><b>9. RATIONAL NUMBERS</b></p>	<ul style="list-style-type: none"> <li>➤ Need for rational numbers</li> <li>➤ +ve and -ve rational numbers</li> <li>➤ Rational numbers on number line</li> <li>➤ Rational numbers in standard form</li> <li>➤ Comparison of rational numbers</li> <li>➤ Operations on rational numbers</li> </ul>	<ul style="list-style-type: none"> <li>➤ Define rational numbers in order to classify a number as a rational number. Represent integers in the form of numerator/denominator where denominator is non-zero in order to define rational numbers. Multiply numerator and denominator by same non-zero integer in order to find equivalent rational numbers.</li> <li>➤ Define positive and negative rational numbers in order to classify a number as either of them. Construct a number line in order to represent rational numbers on it. Simplify rational number such that there is no common factor between numerator and denominator in order to represent the number in standard form. Determine the distance of a rational number from 0 in order to compare them.</li> <li>➤ Calculate and find rational numbers between any 2 rational numbers in order to infer that there are infinite rational numbers between any 2 given rational numbers. Apply the rules of rational numbers operations in order to simplify arithmetic operations.</li> </ul>	<p>To add/subtract two rational numbers using Graph sheet.</p>	<p><b>30% of Term-2</b></p>
		<p><b>November</b></p>	<p><b>22</b></p>	<p><b>10. PRACTICAL GEOMETRY</b></p>	<p>Construction of line parallel to a given line through a point not on the line</p> <ul style="list-style-type: none"> <li>➤ Construction of triangles</li> <li>➤ SSS</li> <li>➤ SAS</li> <li>➤ ASA</li> <li>➤ RHS criteria</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use a ruler and compass in order to construct a line parallel to another line through a point not on the line. List and execute steps in order to construct a triangle given the measures of its three sides.</li> <li>➤ List and execute steps in order to construct a triangle when any of its two lengths and an angle between them is given. List and execute steps in order to construct a triangle when any of its two angles and the side included between them is given.</li> <li>➤ List and execute steps in order to construct a right-angled triangle when the length of one leg and its hypotenuse are given. Examine the given information in order to determine if construction of a triangle from it is possible or not.</li> </ul>	<p>To examine the possibility of construction of a triangle with the given parameters.</p>	

				<p><b>11. PERIMETER AND AREA</b></p> <ul style="list-style-type: none"> <li>➤ Square and rectangles</li> <li>➤ Triangles and parts of rectangles</li> <li>➤ Perimeter of square rectangle and triangle</li> <li>➤ Area</li> <li>➤ Area of rectangle, square and triangle</li> <li>➤ Circumference of a circle</li> <li>➤ Area of a circle</li> </ul>	<ul style="list-style-type: none"> <li>➤ Describe the area and perimeter of plane figures in order to find the same for square and rectangle.</li> <li>➤ Develop and apply a formula in order to determine the area of triangle as half of the area of a rectangle.</li> <li>➤ Use unit square grid sheets in order to find the perimeter and estimate the area of parallelogram.</li> <li>➤ Develop and apply a formula in order to determine the area of a parallelogram.</li> <li>➤ Compare the area of a triangle and its corresponding parallelogram in order to discuss their relation.</li> <li>➤ Use direct or indirect measurements in order to describe the relationships among radius, diameter, and circumference of circles. Investigate different circumference of circles and compare them with their respective diameter in order to relate circumference to Pi.</li> <li>➤ Use direct or indirect methods to find the circumference of circle, semicircle.</li> <li>➤ Develop and apply the formula in order to find the area of a circle and semicircle.</li> <li>➤ Examine area and perimeter of different</li> <li>➤ figures in order to find solution for real life problems</li> </ul>	<ul style="list-style-type: none"> <li>➤ To derive the formula to find area of a circle.</li> </ul>	
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		<b>December</b>	<b>17</b>	<b>12. ALGEBRAIC EXPRESSIONS</b>	<ul style="list-style-type: none"> <li>➤ How are expressions formed</li> <li>➤ Terms of expression</li> <li>➤ Coefficients</li> <li>➤ Like and unlike terms</li> <li>➤ Monomial, binomial, trinomial and polynomials</li> <li>➤ Addition and subtractions of algebraic expressions</li> <li>➤ Finding the value of an expression</li> </ul>	<ul style="list-style-type: none"> <li>➤ Describe algebraic expressions in order to distinguish them from arithmetic expressions. Combine variables and constants in order to form an algebraic expression for the given statement.</li> <li>➤ Examine the given algebraic expression in order to determine its terms and their factors.</li> <li>➤ Examine the given algebraic expressions in order to distinguish between the terms which are constants and those which are not.</li> <li>➤ Examine the given algebraic expressions in order to classify them as monomial, binomial, trinomial, polynomial.</li> <li>➤ Combine like terms in order to simplify the given algebraic expression.</li> <li>➤ Add algebraic expressions in order to determine their sum. Subtract the given algebraic expressions in order to determine their difference.</li> <li>➤ Use the given algebraic expression in order to complete the table of number patterns or find its nth term.</li> <li>➤ Examine the pattern in order to verify whether the given algebraic expression satisfies the shown pattern or not.</li> </ul>	<ul style="list-style-type: none"> <li>➤ To differentiate like and unlike terms using card game.</li> </ul>	
				<b>13. EXPONENTS AND POWERS</b>	<ul style="list-style-type: none"> <li>➤ Exponents</li> <li>➤ Laws of exponents</li> <li>➤ Miscellaneous examples using the laws of exponents</li> </ul> <p>Expressing large numbers in the standard form</p>	<ul style="list-style-type: none"> <li>➤ Describe exponential form of numbers in order to express numbers in exponential notation. Examine the exponential form of the given number in order to identify its base and exponent. Examine the numbers given in exponential form in order to compare and represent them in an order. Find prime factors of numbers in order to express them as the product of powers of prime factors.</li> <li>➤ Apply laws of exponents in order to simplify a given expression.</li> <li>➤ Write numbers using powers of 10 in order to express them in standard form. Expand the given number using powers of 10 in order to express it in the exponent form. Represent large numbers in exponential form in order to read, understand and compare them easily</li> </ul>	<p>To find the value of <math>a^n</math> (where a and n are natural numbers) using paper folding</p>	

		<b>January</b>	<b>22</b>	<p><b>14. SYMMETRY</b></p> <ul style="list-style-type: none"> <li>➤ Introduction</li> <li>➤ Line symmetry for regular polygons</li> <li>➤ Rotational symmetry</li> </ul>	<ul style="list-style-type: none"> <li>➤ Determine lines of symmetry for the given figures in order to classify them on the basis of no. of lines of symmetry.</li> <li>➤ Examine regular polygons in order to determine their lines of symmetry.</li> <li>➤ Complete the mirror reflection of the given figures along the mirror line (i.e., the line of symmetry) in order to identify the figure.</li> <li>➤ Examine the given figure in order to determine its angle of rotation.</li> <li>➤ Examine the given figure in order to determine its order of rotation.</li> <li>➤ Examine the given figures in order to identify figures which have both line symmetry as well as rotational symmetry</li> </ul>	<ul style="list-style-type: none"> <li>➤ To find the order of rotational symmetry of a given figure.</li> </ul>		
				<p><b>15. VISUALISING SOLID SHAPES</b></p> <ul style="list-style-type: none"> <li>➤ Introduction</li> <li>➤ Plane figures and solid shapes</li> <li>➤ Cross-section of 3d shapes</li> <li>➤ Nets for building 3d shapes</li> <li>➤ Viewing different sections of a solid</li> </ul>	<ul style="list-style-type: none"> <li>➤ Examine different solid shapes in order to identify and count their number of faces, edges and vertices.</li> <li>➤ Examine oblique sketches in order to visualize all the faces of a solid shape.</li> <li>➤ Draw 3D objects in 2D in order to visualize solid objects from different perspectives.</li> <li>➤ Examine cross sections of different solid shapes in order to interpret and visualize different planes.</li> <li>➤ Examine the different figures formed by changing the angle of shadows formed in order to visualise solid figures.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Making 3 D shapes using nets.</li> </ul>		
11		<b>February</b>	<b>22</b>	<b>Revision</b>				
12	<p><b>ANNUAL EXAMINATION</b></p> <p><b>Max M:80</b></p> <p><b>(Weightage 80 m)</b></p>	<b>March</b>	<b>23</b>	<b>Annual Exam and Results</b>				<p>20% of</p> <p>Term-1</p> <p>+ Entire syllabus of</p> <p>Term-2</p>

**BIFURCATION OF SYLLABUS (2023-2024)****SUBJECT : SCIENCE****CLASS : VII****TEXT BOOK - NCERT**

<b>TERM-1</b>	<b>ASSESSMENT</b>	<b>MONTH</b>	<b>CHAPTER &amp; Sub Topics</b>	<b>LEARNING OBJECTIVES</b>	<b>ACTIVITIES</b>	<b>SYLLABUS COVERAGE</b>
<b>APRIL TO SEPTEMBER</b>		<b>APRIL</b>	<b>Ch-1:Nutrition in Plants</b>  *Mode of nutrition in plants-Autotrophic and Heterotrophic nutrition *Photosynthesis *Types of Heterotrophic nutrition Insectivorous(Parasitic) plants, Saprotrophs, Symbiosis relationship Process of nutrients replenished in the soil  <b>Ch-2:Nutrition in Animals</b>	*Recall details/definitions specific to autotrophic mode of nutrition in plants / photosynthesis *Understands that the plant stores carbohydrates in the form of starch. *Distinguish between autotrophs and heterotrophs. parasites and saprotrophs *Describe the process of photosynthesis with the help of word/chemical equation. *Evaluate plants to study the pigments	*Bread mould growth *Visit a green house and observe how they grow plants *Growing a sweet potato in water	

\*Digestion in humans  
 \*Various parts of alimentary canal- Buccal Cavity, Oesophagus, Stomach, Small Intestine, Large intestine, Rectum, Anus  
 Digestion in ruminating animals  
 Feeding and digestion in amoeba

present  
 \*Draw schematic diagram of a section of leaf.

\*Define the terms- digestion and rumination, recalls different modes of acquiring food.  
 \*Explain the different steps of nutrition, digestive system of the human being, mode of nutrition in cow and amoeba  
 \* Compares the digestive system of human and that of ruminants  
 \*Illustrate and explains human digestive system with the help of a well labelled diagram  
 \*Classifies animals based on their modes of feeding.

\*Effect of saliva on starch  
 \*Test for starch in food items  
 \*Preparation of Oral Rehydration Solution  
 \*Count your teeth and then find out which type of teeth is used for cutting, grinding etc while eating food  
 \*Find out different regions of taste in our tongue

MAY

**Ch-3: Fibre to**

\*Gains knowledge

\*Differentiate

**Fabric(Rationalized)**

- \*Animal fibres-Wool and Silk
- Animals that yield wool, processing fibres into wool
- \*Occupational Hazard
- \*Sericulture,Life history of silk moth, Processing of silk

**Ch-4: Heat**

- \*Measuring temperature using thermometer
- \*Types of thermometer-Clinical, Laboratory
- \*Precautions using thermometers
- \*Transfer of heat(Different modes)
- \*Conduction- Insulators and conductors

- about which animals yields fibre and who rears those animal
- \*Understands about fabrics which comes from animal sources,parts of animals that yield yarn
- \*Compare coarse beard hair & soft under hair of animals based on their utility
- \*Outline the steps involved in obtaining silk from cocoon
- \*Describe and illustrate diagrammatically the life cycle of silk moth
- \*Evaluate the contribution of silk in Indian Economy

- \*Defines temperature, thermometer, conduction,radiation
- \*Distinguish the Clinical thermometer from Laboratory thermometer (range, least count, units of measurement)
- \*List precautions while using a clinal and laboratory

- between natural fibres(silk and wool) from synthetic fibres by heating the samples
- \*Outline the places on our map where Indian breeds of sheep are seen
- \*Debate on -a) Shearing a sheep to obtain wool and b) Extracting silk from silkworm- is good or bad
- \*Make a clay model showing metamorphosis of silkworm

- \*To observe the rate of heat transferred in different materials
- \*Measure body temperature using clinical and digital thermometers
- \*Observe the range of Laboratory and clinical

PT-1 in July  
**Max M: 40**  
 (Weightage 5m)

	<p>*Convection- Land breeze and Sea breeze, Radiation</p>	<p>thermometer          *Devises an activity to elaborate the process of thermal conduction, convection &amp; radiation          *Recall the role of food as source of energy          *Explain why a substance remains in the same temperature in a Thermos flask or vacuum bottle</p>	<p>thermometer          *Take one black painted can and one white painted can and measure temperature of water in both cans using Lab thermometer          *Making convection spiral          *Flow of heat through a metal strip</p>
JULY	<p><b>Ch-5 :Acids,Bases and Salts</b></p> <p>*Acids and Bases          *Natural Indicators Around us          Litmus,turmeric and China rose as natural indicator          *Neutralisation</p>	<p>*Recognises substances as sour and bitter          *Examine the common substance used at home based on taste and touch and classify them as acidic or basic          *Summarizes observations with respect to behavior of</p>	<p>*Test the samples of acidic ,basic and neutral substances using blue and red Litmus paper          *Make a greeting card using turmeric paper          *Prepare china rose indicator and</p>

30% of Term 1  
 (Apr to Jun syllabus)

\*Neutralisation in everyday life

indicators in acidic and basic solutions  
\*Analysis neutralization reactions and its characteristics  
\*Evaluate the effectiveness of certain neutralization reactions employed in everyday life

red cabbage indicator to test different solutions  
\*Process of neutralisation using phenolphthalein indicator  
\*Observing the use of milk of magnesia, baking soda, calamine solution ,quick lime etc in our daily life

### **Ch-6: Physical and Chemical Changes**

\*Physical changes and Chemical changes  
\*Activities of Chemical changes  
\*Rusting of Iron  
Crystallisation

\*Defines physical, chemical changes, reversible and irreversible change  
\*Differentiates physical changes from other changes  
\*Design an activity to prevent rusting by painting,oiling  
\*Illustrate the usage of crystallization in purification of various salts  
\*Applies related concepts in his daily life situations.

\*Activities to show physical changes  
\*Burning of magnesium ribbon  
Reaction of  $\text{CuSO}_4$  with iron  
\*Reaction of Vinegar with baking soda and the gas released will turn lime water milky  
\*Process of crystallisation

		<p><b>Ch-7: Weather, Climate and Adaptations of Animals to Climate(Rationalised)</b></p> <p>*Weather Climate and Adaptation  *Elements of Weather  *Adaptaion in Polar region and tropical rainforests  *Analysis of weather  *Adaptation of polar bear, *Migratory bird</p> <p><b>Ch-8: Wind, Storms and Cyclones(Rationalized)</b></p> <p>*Air Exerts Pressure  *Air Expands on Heating  *Thunderstorms and Cyclones  *How a thunderstorm becomes a cyclone</p>	<p>*Recalls the different types of habitats, defines weather, climate and adaptation  *Distinguish between weather and climate  *Explains the different adaptations of animal  *Analyses the weather of a place determined by the presence of sun  *Evaluate the role of various organisms in the various habitats</p>	<p>*Observe weather data for a week by including the elements of weather  *Compare the climatic information of Srinagar and Thiruvanantha puram; Assam and Rajastan  *Plot the Polar regions and Tropical rainforest regions ,in a world map</p>	
	AUGUST				

\*Effective Safety Measures against Cyclones  
\*Thunderstorms

**Ch-9:  
Soil(Rationalized)**

\*Soil Teeming with life  
\*Soil profile  
\*Soil type  
\*Properties of Soil  
\*Absorption of water by soil  
soil and crop

\*Recalls details pertaining to air & effects of air pressure.  
\*Demonstrate an experiment in order to conclude that air expands on heating.  
\*Differentiate cyclone, thunderstrom and tornados  
\*Analyses the possible reasons for cyclones in some regions  
\*Suggests precautions against Cyclones, Thunderstorms & Tornadoes  
\*Recalls the different

\*Blowing paperball into the bottle  
\*Blowing air between the balloons  
\*Observing the shape of balloon in hot and cold water  
\*To prove air expands on heating and hot air rises up  
\*Make your own anaemometer

				<p>components of soil</p> <ul style="list-style-type: none"> <li>*Classify soil into different categories based on its properties</li> <li>*Describe all the layers in the soil profile</li> <li>*Examine different soil samples in order to infer moisture content and percolation rate</li> <li>*Explains the effects of soil pollution on life on earth.</li> <li>*Predict the consequences of absence of soil on life on earth and suggests precautions</li> </ul>	<ul style="list-style-type: none"> <li>*Examine the soil profile</li> <li>*Collecting different soil types to check the percolation</li> </ul>	
	<p>PT2 in Sep  <b>Max M: 80</b>  <b>(Weightage 80 m)</b></p>	SEPTEMBER	Revision			<p>30 + 20 = 50%  Of  Annual Syllabus</p>
<b>TERM-2</b>		OCTOBER	<p><b>Ch 10: Respiration in Organisms</b></p> <p>*Why do we respire?</p>	<p>*Understand respiration as breakdown of food for energy</p>	<p>*Compare the breathing rate of self, parents, children and old</p>	

\*The process of breathing  
\*Breathing in other animals  
\*Do plants also respire?

**Ch 11: Transportation in Animals and Plants**

\*Circulation  
\*Blood, Blood vessels and heart  
\*Heartbeat  
\*Excretory system in humans  
\*Transport of substances in plants  
\*Transport of water and minerals

\*Differentiate aerobic and anaerobic respiration  
\*Illustrate the respiratory system with labeling  
\*Compare respiration and breathing  
\*Analysis the position of diaphragm during inhalation and exhalation

\*Discuss the importance of transportation in organisms  
\*List the components of Circulatory system  
\*Diagrammatic representation of heart  
\*Analysis the role of heart in blood circulation  
\*Discuss the role of excretory system in transportation  
\*Evaluate the role of artificial kidney in

people  
\*Anulom Vilom Yoga  
\*Make model to show mechanism of breathing  
\*To check the effect of exhaled air on lime water  
\*Collect and share information about  
\*Artificial respiration

\* To check the pulse rate of children and adults and compare  
\*Model of a stethoscope  
\*Find out the blood groups and their importance  
\*Potato activity to show transportation of water through cells  
\*Collect and share information about ECG and Dialysis  
\*Activity for

				blood filtration	transpiration
OCTOBER TO MARCH		<p><b>Ch 12: Reproduction In Plants</b></p> <ul style="list-style-type: none"> <li>*Modes of reproduction</li> <li>*Asexual reproduction- Vegetative propagation, budding, fragmentation, Spore formation</li> <li>*Vegetative propagation from leaf, stem and root</li> <li>*Pollination</li> <li>*Fertilization</li> <li>*Fruit and seed formation</li> <li>*Seed dispersal</li> </ul> <p><b>Ch 13: Motion and time</b></p> <ul style="list-style-type: none"> <li>*Slow or fast</li> <li>*Speed</li> <li>*Measurement of time</li> <li>*Units of time and</li> </ul>	<ul style="list-style-type: none"> <li>*Define reproduction</li> <li>*Distinguish asexual and sexual reproduction</li> <li>*List the modes of asexual reproduction</li> <li>*Analysis the role of vegetative parts of a plant in reproduction</li> <li>*Classify asexual reproduction into different types</li> <li>*List examples for the types of asexual reproduction</li> <li>*Examine the role of flower in reproduction</li> <li>*Compare self and cross pollination</li> <li>*Evaluate the concept of seed dispersal in plant reproduction</li> </ul>	<ul style="list-style-type: none"> <li>*Observe vegetative propagation in potato, carrot, bryophyllum etc</li> <li>*Examine the parts of flower and understand the importance of them</li> <li>*Specimen of different types of seeds to study seed dispersal</li> </ul>	
	NOVEMBER				

speed  
\*Measuring speed  
\*Distance-time graph

**Ch 14: Electric current and its effects**

\*Symbols of electric components  
\*Open and closed circuit, circuit diagram  
\*Heating, lighting, Magnetic effects of electric current  
\*Electromagnets

\*Recall the types of motion  
\*Define speed and demonstrate time period on simple pendulum  
\*Compare uniform and non uniform motion understand the relation between speed, distance and time  
\*Solve numericals on speed  
\*Analyse distance and time graph  
\*Learn to plot a bar graph and line graph

\*List the uses of electricity in daily life  
\*Draw the symbols of electricity  
\*Demonstrate the flow of current through a circuit  
\*Schematic representation of circuit using symbols of

\*Calculate the time period of a simple pendulum  
\*Calculating speed of animals in Table 13.4  
\*Plot a distance-time graph of an object moving with Uniform and Non uniform speed  
Model of a sand clock

Make an electric circuit

				<p>battery, wire, switch and bulb</p> <ul style="list-style-type: none"> <li>*Differentiate between open and close circuit</li> <li>*Analysis the two effects of current: heat and magnetic</li> </ul>		
	<p>PT-3 in Dec  <b>Max M: 40</b>  <b>(Weightage 5m)</b></p>	<p>DECEMBER</p>	<p><b>Ch 15: Light</b></p> <ul style="list-style-type: none"> <li>*Properties of light</li> <li>*Plain Mirror and Spherical mirror, images formed by these mirrors</li> <li>*Uses of plane and spherical mirror</li> <li>*Concave and convex lens, images formed by these lens</li> <li>*Uses of concave and convex lens</li> <li>*Dispersion of white light using prism</li> </ul>	<ul style="list-style-type: none"> <li>*Recall light as a form of energy and its uses in daily life</li> <li>*Examine that light travels in a straight line</li> <li>*Demonstrate image formation by using candle and mirror</li> <li>*Introduce the terms image, object and light source</li> <li>*Explain the concept of reflection by citing relevant examples</li> <li>*Introduce the concept of lateral inversion by giving real life examples</li> <li>*Explain the two types of mirrors: concave and convex</li> </ul>	<ul style="list-style-type: none"> <li>*Light travels in a straight line</li> <li>*Locating image in a plane mirror</li> <li>*Image formation in a spoon</li> <li>*Paper burning activity by capturing image of sun</li> <li>*Images formed by a concave and convex mirror</li> <li>*Newton's disc</li> <li>*Refraction through prism</li> </ul>	<p>PT3-30% of Term 2  (Oct to Nov syllabus)</p>

				<ul style="list-style-type: none"> <li>*Demonstrate the image formation in concave and convex mirrors and identify the properties of the image formed</li> <li>*Illustrate with an activity that white light is made of seven colors using a prism</li> <li>*Construction of a colour wheel</li> </ul>	
			<p><b>Ch 16: Water: A precious resource(Rationalized)</b></p> <ul style="list-style-type: none"> <li>*Availability of water and its distribution</li> <li>*Forms of water, water cycle, source of water</li> <li>*Depletion of water table</li> <li>*Water Management</li> <li>*Effects of water scarcity on plants</li> </ul>	<ul style="list-style-type: none"> <li>*Recall the significance of water and its role in life sustenance</li> <li>*Explain the quantity of potable water left for usage</li> <li>*Evaluate the forms of water and it's usage</li> <li>*State the importance of ground water to mankind</li> <li>*List the reason for depletion of water table and ways to conserve it</li> <li>*Formulate a method to conserve water which is a need of the hour</li> </ul>	<ul style="list-style-type: none"> <li>*Collect information about water requirement for students of each class</li> <li>*Study the effect of water scarcity on plants</li> <li>*Implement water conservation at school and house</li> </ul>
		JANUARY	<p><b>Ch 17: Forests : Our lifeline</b></p>		

\*Diversity in Forest flora and fauna  
\*Types of canopy in forest plants  
\*Plants and their products  
\*Food chain - interrelation between various organisms  
\*Effects of deforestation

**Ch 18: Waste water story**

\*Water our life line- its uses  
\*Waste water  
\*Waste water treatment plant  
\*Sanitation and Disease  
\*Better housing practices, sewage disposal and sanitation at public places

\*Recollect the uses of forests  
\*Analysis the structure of a forest  
\*List the flora and fauna present in forests  
\*Value forest as a treasure of natural resources  
\*Appreciate forest as the main contributor of rainwater  
\*Develop ways to improve and save forest from depletion

\*Recall the significance of water to all living organisms  
\*List the different ways for waste generation  
\*Examine the effects of waste water on health of living organisms  
\*Explain the role of treatment plants in sewage treatment before disposal  
\*Discuss the sanitation

\*Collect pictures of different types of trees  
\*Write few uses of the products obtained from forests  
\*Plant a sapling on any important day

\*Multi- layer filtration of muddy water  
\*Collect pictures of diseases caused due to poor sanitation  
\*To segregate wet and dry waste separately

	ANNUAL EXAMINATION in March <b>Max M: 80</b> (Weightage 80 m)			methods to reduce pollution of water *Create new ways of waste disposal to diminish waste generation		20% of Term 1 + The entire syllabus of Term 2
		FEBRUARY	REVISION		REVISION	
		MARCH	ANNUAL EXAM		ANNUAL EXAM	

**\*Note-**  
Rationalized chapters be taught through activities. Not to be tested.



**BIFURCATION OF SYLLABUS (2023-24)****SUBJECT : संस्कृतम्****CLASS : सप्तमी****TEXT BOOK – रुचिरा द्वितीयः भागः**

TERM-1	ASSESSMENT	MONTH	CHAPTER & Sub Topics	LEARNING OBJECTIVES	ACTIVITIES	SYLLABUS COVERAGE
APRIL TO SEPTEMBER	PT-1 Max M: 40 (Weightage 5m)	APRIL	प्रथमः पाठः – सुभाषितानि द्वितीयः पाठः – दुर्बुद्धिः विनश्यति	अस्मिन् पाठे विद्यमानानि सुभाषितानि व्यक्तित्व निर्माणाय विकासाय भवन्ति एवं च उत्तमजीवनाय सार्थको भवन्ति । दुष्टबुद्धेः कारणेन विनाशः एव भवति इति नीतेः प्रतिपादनम् ।	1. सुस्वर वाचनम्, 2. सस्वर आदर्शपठनम् 3. एतादृश अन्यानि सुभाषितानि लिखित्वा आनयन्तु ।	30% of Term 1
		JUNE	तृतीयः पाठः – स्वावलम्बनम् व्याकरणम् - सन्धिः (दीर्घ ,गुण ,वृद्धि)	अनेन पाठेन छात्राः स्वशक्त्या कार्याणि कर्तुं उत्सुकाः भवन्ति एवं पाठ द्वारा संख्यावाचि शब्दानां ज्ञानं अपि संपादयन्ति ।	1 . एकतः पञ्चाशत् पर्यन्तं सङ्ख्यानां लेखनम् । 2. दीर्घ संधेः उदाहराणि लिखन्तु ।	
		JULY	चतुर्थः पाठः – पण्डिता रमाबाई पञ्चमः पाठः – सदाचारः	1 .स्त्री वैशिष्ट्यम् , रमाबाई महोदयायाः जीवनादर्शम् छात्राः ज्ञास्यन्ति । 2. श्लोकोच्चारणम् एवं	1. अस्माकं देशे रमाबाई सदृशाः काः काः सन्ति लिखित्वा आनयन्तु । 2. अकार पुंलिङ्ग शब्दरूपाणि कण्ठस्थं	



		उपसर्गाः अव्ययाः च	सुभाषितानि व्यक्तित्व निर्माणाय विकासाय भवन्ति एवं च उत्तमजीवनाय सार्थको भवन्ति । श्लोकोच्चारणम् एवं नैतिकविकासः ।		
OCTOBER TO MARCH	NOVEMBER	द्वादशः पाठः – अमृतं संस्कृतम्  व्याकरणम् – कारकम् सामान्य परिचयः एवं उपपद विभक्तिः च।	1.संस्कृतस्य महत्वम् , वैशिष्ट्यम् 2. भारतउज्वलसंस्कृतेः विभवस्य ज्ञानसंपादनम्	1. प्राचीन संस्कृत वाङ्मये रचितानां ग्रन्थानां नामानि तेषां ग्रन्थकर्तृनां परिचयं च लिखत । 2. चतुर्थी विभक्तेः उदाहरणानि लिखत ।	
	DECEMBER	त्रयोदशः पाठः – लालनगीतम्  व्याकरणम् - शब्दरूपाणि धातुरूपाणि च	1.संस्कृत गीतानां आलापनम् तेन संस्कृतं सरला भाषा इति छात्राः ज्ञास्यन्ति एवं उत्साह वर्धनञ्च भवति । 2. सर्वनाम शब्दानां रूपाणि एवं लृट् लङ् लकाराणां अवगमन भवति ।	1. गीतं सुस्वरं गायन्तु । 2. लृट् लङ् लकाराणि उपयुज्य वाक्यानि रचयन्तु ।	
	JANUARY	व्याकरणम् - उच्चारण स्थानानि, पाठ्यपुस्तके अवशिष्ट शब्दरूपाणां पाठनम् , लोट्,विधिलिङ्ग लकाराणां पाठनम् च	1.छात्राः वर्णानां उच्चारणस्थानानि ज्ञास्यन्ति एवं तेषां सम्यग् उच्चारणं च कर्तुं शक्नुवन्ति । 2. , लोट्,विधिलिङ्ग लकाराणां ज्ञानं तेषां प्रयोगः कथं कर्तव्यं इति	1. लोट् लकार उपयुज्य वाक्यानि रचयत । 2.शब्दरूपाणां कण्ठस्थीकरणम् कुरुत ।	20 % of Term 1 + Entire syllabus of Term 2
	ANNUAL EXAMINATION Max M: 80 (Weightage 80 m)				

		।	ज्ञास्यन्ति ।	
		वार्षिक परिक्षार्थं पाठ्यक्रमस्य पुनरावृत्तिः ।		
	FEBRUARY		छात्राः परीक्षायां सम्यक् प्रदर्शनम् कुर्वन्ति ।	छात्राः परीक्षायां सम्यक् प्रदर्शनम् कुर्वन्ति ।
	MARCH			

**BIFURCATION OF SYLLABUS (2023-24)**

**SUBJECT : HINDI**

**CLASS : VII**

**TEXT BOOK - वसंतभाग -2, गुलमोहर हिंदी व्याकरण, बाल महाभारत कथा**

TERM-1	ASSESMENT	MONTH	CHAPTER & Sub Topics	LEARNING OBJECTIVES	ACTIVITIES	SYLLABUS COVERAGE
APRIL TO SEPTEMBER	<b>PT-1 Max M: 40 (Weightage 5m)</b>	APRIL	वसंत - पाठ -1हम पंछी उन्मुक्त गगन के पाठ -2 दादीमाँ, पाठ -3हिमालय की बेटियाँ बालमहाभारत - पाठ- 1 महाभारत कथा पाठ- 2 देवव्रत ,पाठ- 3 भीष्म - प्रतिज्ञा पाठ- 4 अंबाऔर भीष्म व्याकरण -भाषा, ध्वनि, वर्ण विच्छेद	अपने पालतू पशु ,पक्षी के साथ अपने संबंध पर चर्चा करपाएँगे।किसी चित्र या दृश्य को देखने के अनभुव को अपने ढंग से व्यक्त करेंगे। अपने परिवेश में मौजूद लोक-कथाओं और लोक गीतों के बारे में चर्चा करेंगे व लेखन अभिव्यक्ति का विकास होगा।	1.अपनी या पशु पक्षियों की स्वतंत्रता का वर्णन अपने शब्दों में कीजिए । 2.अपनी जीवन से सम्बंधित किसी एक घटना का वर्णन कीजिए । 3.प्रकृति चित्रण का वर्णन अपने शब्दों में कीजिए ।	30% of Term 1

		MAY/ JUNE	<p>वसंत - पाठ-4 कठपुतली बाल महाभारत - पाठ- 5 विदुर पाठ- 6 कुंती पाठ- 7 भीम व्याकरण -संज्ञा, सर्वनाम , विशेषण, क्रिया</p>	<p>विविध कलाओं जैसे- हस्तकला, वास्तुकला, खेती-बाड़ी, नृत्य कला के बारे में बात की जाएगी ।</p>	<p>1.धागा और कागज़ की सहायता से एक कठपुतली बनाइए ।</p>
		JULY	<p>वसंत - पाठ-5 मिठाईवाला पाठ-6 रक्त और हमारा शरीर , पाठ- 7 पापा खो गए । बालमहाभारत - पाठ-8 कर्ण, पाठ-9 द्रोणाचार्य ,पाठ-10 लाख का घर, पाठ-11पांडवों की रक्षा , पाठ-12 द्रौपदी-स्वयंवर, पाठ -13 इंद्रप्रस्थ व्याकरण -, क्रियाविशेषण, विलोमशब्द पर्यायवाचीशब्द, पत्रलेखन (अनौपचारिकपत्र ) ,संवादलेखन</p>	<p>कहानी,कविता आदि पढ़कर लेखन के विविध तरीकों और शैलियों को पहचानते हैं, जैसे-कलात्मक भावात्मक, प्रकृति चित्रण आदि।  विभिन्न स्थानीय सामाजिक एवं प्राकृतिक मुद्दों / घटनाओं के प्रति अपनी तार्किक प्रतिक्रिया देते हैं ।</p>	<p>1.अलग अलग तरह की मिठाइयों का चित्र अपनी उत्तर पुस्तिका में लगाइए 2.किन-किन फलों और सब्जियों को खाने से किस-किस विटामिन की पूर्ति होती है तालिका बनायें ।</p>

	PT-2 Max M: 80 (Weightage 80 m)	AUGUST	<p>वसंत -</p> <p>पाठ-8 शाम- एक किसान</p> <p>पाठ-9 चिड़िया की बच्ची</p> <p>पाठ-10 अपूर्व अनुभव</p> <p>बालमहाभारत -</p> <p>पाठ -14 जरासंध, पाठ 15 शकुनि का प्रवेश , पाठ-16 चौसर का खेल व द्रौपदी की व्यथा, पाठ -17 धृतराष्ट्र की चिंता</p> <p>पाठ -18 भीम और रहनुमान</p> <p>व्याकरण -उपसर्ग ,प्रत्यय,लिंग,वचन,कारक, अनुच्छेदलेखन,चित्रवर्णन</p>	<p>अपने अनुभवों को अपनी भाषा शैली में लिखते हैं।</p> <p>भिन्न संवेदनशील मुद्दों, विषयों जैसे- जाति, धर्म, रंग, जेंडर, रीति-रिवाजों के बारे में मौखिक रूप से अपनी तार्किक समझ को अभिव्यक्त करते हैं ।</p>	<p>1.नाटक को अभिनय के साथ कक्षा में कीजिये ।</p> <p>2.कविता को उत्तर पुस्तिका में लिखकर शाम का एक दृश्य प्रस्तुत कीजिए ।</p> <p>3.अपने जीवन से किसी ऐसी घटना का वर्णन कीजिए जिसमें लोगों का स्वार्थ दिखता हो ।</p>	30 + 20 = 50% Of Annual Syllabus
		SEPTEMBER	<p>वसंत -</p> <p>पुनरावृत्ति</p> <p>बाल महाभारत -</p> <p>पाठ -19 द्वेष करने वाले का जी नहीं भरता</p> <p>पाठ -20 मायावी सरोवर</p> <p>पाठ- 21 यक्ष प्रश्न</p>	<p>बाल मनोभाव के विषय में चर्चा करते हुए बाल सुलभ व्यवहार का वर्णन करना।</p>		

TERM-2		OCTOBER	<p>वसंत- पाठ-11 रहीम के दोहे पाठ -12 कंचा बालमहाभारत - पाठ-22 अज्ञात वाश पाठ -23 प्रतिज्ञा -पूर्ति पाठ-24 विराट और भ्रम व्याकरण - अनेकार्थक शब्द ,चित्रवर्णन</p>	<p>पढ़कर अपरिचित परिस्थितियों और घटनाओं की कल्पना करते हैं और उनपर अपने मन में बनने वाली छवियों और विचारों के बारे में मौखिक भाषा में बताते हैं ।</p>	<p>उत्तर पुस्तिका और व्याकरण के माध्यम से पुनरावृत्ति करवाई जाएगी । 1.रहीम जी के किन्हीं तीन दोहों को अपनी उत्तर पुस्तिका में लिखिए 2.छात्र कहानी कंचा और ईदगाह को पढ़कर बच्चों के मनोदशा का वर्णन करेंगे ।</p>	
OCTOBER TO MARCH	PT-3 Max M: 40 (Weightage 5m)	NOVEMBER	<p>वसंत - पाठ -13 एक तिनका पाठ-14 खान-पान की बदलती तसवीर बालमहाभारत- पाठ -25 मंत्रणा पाठ -26 राजदूत संजय पाठ -27 शांतिदूत श्रीकृष्ण पाठ-28 पांडवों और कौरवों के सेनापति पाठ-29 पहला , दूसरा और तीसरा दिन व्याकरण- अनेकार्थक शब्द, चित्र वर्णन समास- ( केवल द्वंद्व और द्विगु समास )</p>	<p>मानवता और माननीय व्यवहार की शिक्षा दी जाएगी कठिन शब्दों के अर्थ बताते हुए कविता का सस्वर वाचन करवाना।  आधुनिक युग के खान-पान से होने वाले हानि ,लाभ का वर्णन कर पाठ से जोड़ा जायेगा। पढ़ाया व समझाया जाएगा।</p>	<p>3.किसी भी एक पकवान बनाने की विधि का वर्णन कीजिए ।</p>	30% of Term 2

		DECEMBER	<p>वसंत - पाठ- 15 नीलकंठ पाठ-16 भोर और बरखा पाठ-17 वीर कुँवर सिंह बालमहाभारत- पाठ -30 चौथा ,पाँचवा और छठा दिन पाठ -31 सातवाँ ,आठवाँऔर नवाँ दिन पाठ -32 भीष्म शर -शय्यापर पाठ -33 बारहवाँ दिन पाठ -34 अभिमन्यु व्याकर-मुहावरे, अनुच्छेद लेखन, संधि (स्वर संधि-दीर्घ और गुण )</p>	<p>पाठ का भावऔर कठिन शब्दों का अर्थ समझते हुए विद्यार्थियों को भगवान श्रीकृष्ण की लीलाओं से अवगत कराना।</p> <p>क्रांतिकारियों के बलिदान से अवगत कराना।</p> <p>राष्ट्रीय खेल हॉकी से जोड़ते हुए छात्रों द्वारा अपने जीवन में मनोरंजन के स्रोतों का विश्लेषण करना।</p>	<p>1.मोर का सुंदर चित्र बनाकर कविता स्पष्ट रूप से लिखेंगे ।</p> <p>2.किसी भी स्वतंत्रता सेनानी का चित्र लगाकर उनके बारे में 10 वाक्य लिखिए ।</p>
		JANUARY	<p>वसंत - पाठ-18 संघर्ष के करण में तुनुक मिज़ाज हो गया, पाठ-19 आश्रम का अनुमानित व्यय, पाठ-20 विपल्व गायन बालमहाभारत- पाठ-35 युधिष्ठिर की चिंता और कामना पाक -36 भूरिश्रवा, जयद्रथ और</p>	<p>गाँधीजी के किये गये कार्यों पर चर्चा करते हुए विद्यार्थियों को गाँधीजी द्वारा किये गये आश्रमों की स्थापना से अवगत करवाना।</p> <p>स्वाधीनता संग्राम की लड़ाई</p>	<p>1.गाँधीजी के जीवन से संबंधित किसी एक घटना का वर्णन अपने शब्दों में कीजिए ।</p> <p>2.माखन लाल चतुर्वेदी , मैथली शरण गुप्त ,सूर्यकांत त्रिपाठी 'निराला' की ऐसी कविताओं की चार -चार पंक्तियाँ इकट्ठा कीजिए जिनमें सवाधीनता के</p>

<b>ANNUAL EXAMINATION Max M: 80 (Weightage 80 m)</b>		आचार्य द्रोण का अंत , पाठ -37 कर्ण और दुर्योधन भी मारे गए , पाठ -38 अश्वत्थामा पाठ-39 युधिष्ठिर की वेदना , पाठ-40 पांडवों का धृतराष्ट्र के प्रति व्यवहार पाठ-41 श्रीकृष्ण और युधिष्ठिर व्याकरण-पत्रलेखन (औपचारिकपत्र) ,संवादलेखन	में जुड़े लोगों में जोश और आत्मविश्वास भरती कविता पढ़ाई व समझाई जाएगी ।	भाव ओज से मुखर हुए हैं ।	20% of Term 1 + Entire syllabus of Term 2
	FEBRUARY	वार्षिक परीक्षा में आने वाले पाठ्यक्रम की पुनरावृत्ति	छात्र परीक्षा में अच्छा प्रदर्शन कर सकेंगे ।	छात्र परीक्षा में अच्छा प्रदर्शन कर सकेंगे ।	
	MARCH	वार्षिक परीक्षा में आने वाले पाठ्यक्रम की पुनरावृत्ति ।			