









LEARNING  
OUTCOME

बच्चों में देशप्रेम की भावना जागृत हुई

बच्चों में तार्किक क्षमता का विकास हुआ

बच्चों सभ्यता एवं संस्कृति के बीच अंतर करने में सक्षम हुए

बच्चों महान क्रांतिकारी गणेश शंकर विद्यार्थी के जीवन से भलीभाँति परिचित हुए

बच्चों माँ की महानता एवं उसके प्रभुत्व को समझने में सक्षम हुए











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## INTERNATIONAL PUBLIC SCHOOL, PURNEA

SUBJECT MATHEMATICS

GRADE 8

UNIT	OBJECTIVE TO BE ACHIEVED	COMPETENCIES	DATE OF START & END	NUMBER OF PERIODS	USE OF INNOVATIVE STRATEGY	CHECKING PREVIOUS KNOWLEDGE	RESOURCES USED	VALUE DERIVED	explain the topic with an concept map and ppt presentation	ELEMENT OF INNOVATION	LEARNING OUTCOME
1. RATIONAL NUMBERS	RATIONAL NUMBERS AND THEIR PROPERTIES, FINDING RATIONAL NUMBER IN BETWEEN OF TWO RATIONAL NUMBERS , AND THE REPRESENTATION OF Rational number on number line	CRITICAL THINKING	18 april to 28 april	9	Draw a concept map of rational numbers with their different properties	Recall about the natural numbers, whole numbers, integers ,fraction and rational numbers and some question Based on them	CHART PAPER, PENCIL DIFFERENT COLOUR SKETCH PEN, AND GRAPH PAPER	INTEGRITY	explain with the help of ppt presentation		to subtract two rational number through an activity using different manipulative
2. EXPONENTS AND POWERS	negative exponents , laws of exponents with negative exponents , scientific notation	PROBLEM SOLVING	4 may to 13 may	8	draw a concept map of rational numbers with their different properties	base, exponents index, powers and their representation and a small recap exercise	coloured thin sheet, ruler, pencil , scissors	TOLERANCE	explain with the help of vann diagram and concept map		to find the value of a raise to the power n using paper folding
3. SQUARE AND SQUARE ROOT	squares, squares root , square root of product of two numbers and fractional numbers, approximate square roots,	PROBLEM SOLVING	17 may to 25 may	4	explain with the formula based problems from the textbook and the concept map of different formulas square and square rooty	squares of a numbers up to 20 and recap exercise	coloured thin sheet, ruler, pencil , scissors	TOLERANCE	explain with the help of vann diagram and concept map		to find the value of a raise to the power n using paper folding
4. CUBE AND CUBE ROOTS	cube , cube roots , estimating square roots and cube roots	PROBLEM SOLVING	4 july to 8 july	5	explain with the formula based problems from the textbook and the concept map of different formulas of cube and cube roots	cubes of a number up to 20	cardboard, white chart paper, ruler, pencil, eraser, adhesive, sketch pens of different colours,	TOLERANCE	explain with help of ppt presentation and a concept maps		to find the cube root of any number by using a grid
5. PLAYING WITH NUMBERS	number in general form , coding and decoding , number and puzzle games , Patterns in number, magic squares, divisibility of numbers	CRITICAL THINKING	11 july to 22 july	7	expalin with the different type of number pattern and video presentation	knowlwege about the numbers anmd divisibility rules	chART PAPER, PENCIL DIFFERENT COLOUR SKETCH PEN, scissors, ruler	RESPECT	explain with the help of vann diagram and concept map		to construct a 4x4 magic square of magic constant 34
6. ALGEBRAIC EXPRESSION AND FACTORISATION	multiplication of algebraic expression , division of polynomials , identities, factorisATION	CRITICAL THINKING	25 july to 5 aug	9	expalin with the diagramatical representation and video presenattion	algebraic expression formate, different terms involve in this tyoes of algebraic expression , degree of an expression	cardboard, white chart paper, ruler, pencil, eraser, adhesive, sketch pens of different colours, a balance sheet	RESILIENCE	expalin with the help of concept map and through the ppt presenattion		to do an activity by finding the measurement of unknown quantity
7. LINEAR EQUATION IN ONE VARIABLE	solving an equation, solving a linear equation in one variable , word problems	INDEPENDENT LEARNING	9 aug to 19 aug	6	video presentation and solving textual problems	what is equation , and linear equation, solving an equation and a recap exercise	cardboard, white chart paper, ruler, pencil, eraser, adhesive, sketch pens of different colours,	RESILIENCE	expalin with the help of concept map and through the ppt presenattion		to do an activity by finding the measurement of unknown quantity
8. COMMERCIAL MATHEMATICS	application of percentage , profit and loss, discount and tax	PROBLEM SOLVING	22 aug to 2 sep	9	expalin with the role play and help of concept maps	meaning of unitary method and meaning of percentage and a small recap exercise based on them	some general items , a shop , a balance sheet of profit and loss	HONESTY	explain with the help of vann diagram and concept map		role play by different character
9. SIMPLE INTEREST AND COMPOUND INTEREST	interest , growth and depreciation, application of ci	PROBLEM SOLVING	6 sep 14 sep	6	explain with the real life examles and help of concept maps	meaning of simple interest and their formulas		HONESTY	expalin with the help of concept map and through the ppt presenattion		role play by different character of merchants
10. QUADRILATERAL		CRITICAL THINKING						INTEGRITY			
11. CONSTRUCTION OF QUADRILATERAL		CREATIVITY						INTEGRITY			
12. AREA OF POLYGONS		CRITICAL THINKING						CARE			
13. VOLUME AND SURFACE AREA		PROBLEM SOLVING						CARE			
14. PROBABILITY		PROBLEM SOLVING						HONESTY			
15. DATA HANDLING		PROBLEM SOLVING						INTEGRITY			
16. REPRESENTATING 3D IN 2D		CRITICAL THINKING						RESILIENCE			
17. INTRODUCTION TO GRAPH		PROBLEM SOLVING						EMPTHY			









# INTERNATIONAL PUBLIC SCHOOL, PURNEA

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Grade:- 8

## SUBJECT

## GRADE

Unit	Objective to be Achieved	COMPETENCIES	DATE OF START & END	NUMBER OF PERIODS	USE OF INNOVATIVE STRATEGY	CHECKING PREVIOUS KNOWLEDGE	RESOURCES USED	VALUE DERIVED	CROSS CURRICULAR APPROACH TO BE LINK WITH INNOVATION AND GLOBAL CULTURE	ELEMENT OF INNOVATION	LEARNING OUTCOME
पाठ: 4 गणेश शंकर विद्यार्थी जीवनी	स्वतंत्रता सेनानों के जीवन से परिचय कराना	शब्द भंडार को वृद्धि स्वतंत्रता का महत्व व्याकरण बोध	21 June to 27 June	05	विद्यार्थी केंद्रित	बच्चे कुछ क्रांतिकारी से परिचित थे	पाठ्य पुस्तक	क्रांतिकारों के जीवन से प्रेरणा लेने के लिए कहूंगी	अन्य क्रांतिकारों के जीवनो पढ़ने के लिए उसाहित करूंगी	वर्णनात्मक	बच्चों में देशभक्ति का विकास होगा
व्याकरण शब्द विचार	बच्चों में शब्द संबंधित जानकारी विकसित करना	शब्द का अर्थ शब्द का वर्गीकरण एवं उनका परिचय			विद्यार्थी केंद्रित	बच्चे हिंदी शब्द विचार से पूर्व परिचित थे	पाठ्य पुस्तक	शब्द बोध विकसित करना	विभिन्न शब्द एवं उनके प्रकार को पढ़ने के लिए कहूंगी	व्याकरण बोध	बच्चों में शब्द विचार एवं व्याकरण की समझ विकसित होगी
पाठ 5 मां की ममता कहानी	बच्चों को मां की ममता से परिचित कराना	भावाथे जाना मां की महानता को चित्रित करना व्याकरण बोध	28 June to 4 July	05	विद्यार्थी केंद्रित	बच्चे मां की ममता से कितना परिचित है	पाठ्य पुस्तक	मां के प्रति आदर प्रेम एवं कर्तव्य का भाव विकसित करना	मां का सम्मान करने के लिए उसाहित करना	भाव प्रदर्शन	बच्चे मां की महानता एवं उनके प्रभुत्व को समझने में विकास होगा
व्याकरण उपसर्ग	बच्चों में उपसर्ग संबंधी बोध विकसित करना	उपसर्ग का अर्थ मूल शब्द एवं उपसर्ग अलग करना सीखेगा			विद्यार्थी केंद्रित	बच्चे उपसर्ग को पहले से कितना परिचित थे	पाठ्य पुस्तक	शब्द रचना विकसित करना	विभिन्न शब्दकोश निमार्ण के नियम को पढ़ने के लिए कहूंगी	व्याकरण बोध	बच्चों में शब्द रचना का विकास होगा
पाठ 6 फूल और कांटा कविता	बच्चों को सज्जन और दुर्जन से परिचित कराना	भावाथे आदर्श व्यक्तित्व का निर्माण व्याकरण बोध	5 July to 11 July	05	विद्यार्थी केंद्रित	बच्चे कविता के भाव से कितना परिचित थे	पाठ्य पुस्तक	आदर्श व्यक्तित्व का निर्माण	हरिऔध की अन्य कविता को पढ़ने के लिए प्रेरित करूंगी	स्वभाव आधारित	बच्चों में अच्छे व्यक्तित्व का विकास होगा
व्याकरण प्रत्यय	बच्चों में प्रत्यय को समझाना	प्रत्यय को पहचान प्रत्यय के भेद एवं उनका परिचय			विद्यार्थी केंद्रित	बच्चे प्रत्यय को पूर्व से कितना जानते थे	पाठ्य पुस्तक	प्रत्यय युक्त शब्दों का निर्माण बताना	प्रत्यय के विभिन्न भेदों को पढ़ने के लिए प्रेरित करूंगी	व्याकरण बोध	बच्चों में प्रत्यय युक्त शब्द रचना का ज्ञान होना
पाठ .7 कलिंग विजय एकांकी	सम्राट अशोक का जीवन परिचय कराना	भाव समझाना कलिंग युद्ध की ऐतिहासिक घटना का उल्लेख	12 July to 18 July.	05	विद्यार्थी केंद्रित	बच्चे पहले से कलिंग युद्ध को कितना जानते थे	पाठ्य पुस्तक	सम्राट अशोक के जीवन से प्रेरणा लेने के लिए बताऊंगी	सम्राट अशोक से संबंधित अन्य एकांकी को पढ़ने के लिए प्रेरित करूंगी	एकांकी आधारित	बच्चों में दृढ संकल्प शक्ति का विकास होगा
व्याकरण समास	बच्चों में समास का ज्ञान कराना	सामासिक शब्दों की पहचान समास के भेदों की पहचान कराना			विद्यार्थी केंद्रित	बच्चे पूर्व से समाज को कितना जानते थे	पाठ्य पुस्तक	बच्चे समाज को विस्तार से सीखेगा	व्याकरण पढ़ने के लिए प्रेरित करूंगी	व्याकरण बोध	समास एवं उसके भेदों का ज्ञान होगा
पाठ: 8 सूखे सुमन से कविता	जीवन दर्शन को जानना	भाव ग्रहण करना प्रकृति का चित्रण एवं व्याकरण बोध	19 July to 25 July	05	विद्यार्थी केंद्रित	बच्चे पूर्व से फूल को कितना समझते थे	पाठ्य पुस्तक	पुष्प के माध्यम से जीवन दर्शन कर आऊंगी	महादेवी वर्मा की अन्य कविता को पढ़ने के लिए प्रेरित करूंगी	तुलनात्मक बोध	बच्चों में अच्छे व्यवहार का विकास होगा
व्याकरण संज्ञा	संज्ञा शब्द का ज्ञान	संज्ञा को परिभाषा संज्ञा के भेद व्यक्तिवाचक एवं जातिवाचक में अंतर			विद्यार्थी केंद्रित	बच्चे पूर्व से संज्ञा को क्या जान रहे थे	पाठ्य पुस्तक	व्यक्तिवाचक एवं जातिवाचक संज्ञा को बताऊंगी	बच्चों को हिंदी व्याकरण पढ़ने के लिए प्रेरित करूंगी	वर्णनात्मक	बच्चों में संज्ञा को पहचानने का ज्ञान होगा
पाठ 9 लाल अंगारों की मुस्कान कहानी	सर्वस्व समर्पण की भावना का ज्ञान कराना	भावाथे सर्व धर्म सम्मान शौर्य गाथाओं का ज्ञान व्याकरण बोध	26 July to 1 August	05	विद्यार्थी केंद्रित	बच्चे पूर्व से ऐतिहासिक घटना को कितना जानते थे	पाठ्य पुस्तक	सर्वस्व समर्पण की भावना का बोध कर आऊ कराऊंगी	बच्चों को पत्राधाय की कहानी को पढ़ने के लिए प्रेरित करूंगी	शौर्य गाथाओं का बोध	बच्चों में सहयोग की भावना का विकास होगा
व्याकरण लिंग	लिंग की पहचान एवं प्रयोग	लिंग के भेद उसकी पहचान लिंग परिवर्तन के नियम को बताऊंगी			विद्यार्थी केंद्रित	बच्चे पूर्व से लिंग शब्द से कितना परिचित थे	पाठ्य पुस्तक	लिंग परिवर्तन के नियम को बताऊंगी	हिंदी व्याकरण पढ़ने के लिए प्रेरित करूंगी	व्याकरण बुक	बच्चों में लिंग की पहचान का विकास होगा
पाठ 10 नेहरू तारा घर: अंतरिक्ष की दुपहरी झांकी पत्र	अंतरिक्ष विज्ञान की जानकारी	भावाथे ऐतिहासिक इमारतों के बारे में जानकारी	2 August to 8 August	05	विद्यार्थी केंद्रित	बच्चे नेहरू को कितना जान रहे थे	पाठ्य पुस्तक	ऐतिहासिक इमारतों के बारे में बताऊंगी	अन्य तारा घर को देखने के लिए कहूंगी	पत्र शैली	बच्चों में तारा घर के बारे में जानकारी हुआ
व्याकरण वचन	वचन को विस्तार से जानेगा	वचन की परिभाषा वचन के भेद वचन परिवर्तन के नियम को जानेगा			विद्यार्थी केंद्रित	बच्चे वचन को कितना जानते थे	पाठ्य पुस्तक	वचन के भेद वचन परिवर्तन के नियम को बताऊंगी	व्याकरण पढ़ने के लिए प्रेरित करूंगी	व्याकरण बोध	बच्चों में वचन को समझने का विकास होगा
पाठ 11 शक्ति और क्षमा कविता	शक्ति और क्षमा के नीतियों को जानना	भावाथे क्षमा शीलता गौरव गरिमा का चित्रण	9 August to 16 August	05	विद्यार्थी केंद्रित	बच्चे क्षमा और शक्ति को क्या जानते थे	पाठ्य पुस्तक	क्षमाशीलता, दया शक्ति के महत्व को बतलाऊंगी	दिनकर की कविताएं पढ़ने के लिए कहूंगी	कुरुक्षेत्र का ज्ञान	बच्चों में शक्ति और क्षमा को समझने का विकास होगा
व्याकरण कारक	बच्चे कारक को जानेगा	कारक की परिभाषा कारक के भेद कारक के चिन्ह को बताऊंगी			विद्यार्थी केंद्रित	बच्चों में पहले से कारक के बारे में कितनी जानकारी थी	पाठ्य पुस्तक	कारक कारक के भेद संबंधी नियमों को बताऊंगी	व्याकरण पढ़ने के लिए प्रेरित करूंगी	व्याकरण बोध	बच्चों में कारक का बोध होगा





INTERNATIONAL PUBLIC SCHOOL, PURNEA

SUBJECT

GRADE

Table with 12 columns: UNIT, OBJECTIVE TO BE ACHIEVED, COMPLETIONS, DATE OF START & END, NUMBER OF PERIODS, USE OF INNOVATIVE STRATEGY, CHECKING PREVIOUS KNOWLEDGE, RESOURCES USED, VALUE DERIVED, CROSS CURRICULAR APPROACH TO BE LINK WITH INNOVATION AND LOCAL CULTURE, ELEMENT OF INNOVATION, LEARNING OUTCOME. Rows include Rational Numbers, Exponents and Powers, Square and Square Root, Cubes and Cube Roots, Playing with Numbers, Linear Equations in One Variables, Algebraic Expression and Identities, Factorisation, Comparing Quantities, Direct and Inverse Variations, Simple Interest and Compound Interest, Understanding Quadrilaterals, Visualising Solid Shapes, Practical Geometry, Area of Polygons, Surface Area and Volume, Data Handling, and Introduction to Graph.

## INTERNATIONAL PUBLIC SCHOOL, PURNEA

### SUBJECT SOCIAL STUDIES

### GRADE 8

UNIT and THEME	OBJECTIVE TO BE ACHIEVED	COMPETENCIES	DATE OF START & END	NUMBER OF PERIODS	USE OF INNOVATIVE STRATEGY	CHECKING PREVIOUS KNOWLEDGE	RESOURCES USED	VALUE DERIVED	CROSS CURRICULAR APPROACH TO BE LINK WITH INNOVATION AND GLOBAL CULTURE	ELEMENT OF INNOVATION	LEARNING OUTCOME
THE EXPANSION OF BRITISH POWER IN INDIA	LEARNER WILL UNDERSTAND THE REASONS FOR THE SPREAD OF MERCANTILISM AND TRADE WARS	GLOBAL AWARENESS	20th June to 24th June	5	WILL SHOW THEM INVASIONS OF BRITISHERS THROUGH A SHORT STORY OF BENGAL DIWANS	THROUGH CROSS QUESTIONING AND SHORT QUIZ	PICTURES, VIDEOS AND TEXTBOOK	RESPECT AND INTEGRITY	POLITICAL SCIENCE	PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE REASONS FOR THE SPREAD OF MERCANTILISM AND TRADE WARS
RURAL LIFE AND SOCIETY	LEARNER WILL UNDERSTAND THE LAND REVENUE POLICIES TILL 1857	GLOBAL AWARENESS	27th June to 1st July	6	WILL SHOW THEM THE LIFE OF PICTURES OF EARLY 1900s TO RELATE THE TOPIC	THROUGH SHOWING THEM SOME PICTURES OF THOSE TIME OF THEIR PREVIOUS CHAPTER TO RELATE	PICTURES, VIDEOS AND TEXTBOOK	RESPECT AND INTEGRITY	POLITICAL SCIENCE	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE LAND REVENUE POLICIES TILL 1857
COLONIALISM, TRIBAL SOCIETY AND INDUSTRIES	LEARNER WILL UNDERSTAND THE CHANGES IN TRIBAL SOCIETY AND TRIBAL REVOLTS	CULTURAL AWARENESS	4th July to 8th July	5	WILL MAKE THEM UNDERSTAND ABOUT THE CATEGORIES OF PEOPLE ACCORDING TO THEIR CASTES	THROUGH CROSS QUESTIONING ON THE BASIS OF PICTURES, VIDEOS AND SHORT QUIZ	PICTURES, VIDEOS AND TEXTBOOK	RESPECT AND EMPATHY	TRADE AND POLITICAL SCIENCE	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE CHANGES IN TRIBAL SOCIETY AND TRIBAL REVOLTS
THE REVOLT OF 1857	LEARNER WILL UNDERSTAND THE CAUSES ,NATURE ,AND EFFECTS OF THE REVOLT	CRITICAL THINKING	11th July to 15th July	4	WILL MAKE THEN KNOW ABOUT THE REASONS AND CONSEQUENCES BEHIND THE REVOLT	THROUGH CROSS QUESTIONING ON THE BASIS OF VIDEOS, CHARTS AND PICTURES TO RELATE THE TOPIC	PICTURES, VIDEOS AND TEXTBOOK	INTEGRITY	POLITICAL SCIENCE	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE CAUSES ,NATURE ,AND EFFECTS OF THE REVOLT
WATER RESOURCES	LEARNER WILL UNDERSTAND THE AVAILABILITY AND REASONS BEHIND THE SCARCITY OF WATER	CRITICAL THINKING	18th July to 22nd July	5	WILL MAKE THEN UNDERSTAND ABOUT WATER DISTRIBUTION AND ITS NEED NOWADAYS	THROUGH CROSS QUESTIONING ON THE BASIS OF SOME PICTURES AND VIDEOS	PICTURES, VIDEOS AND TEXTBOOK	CARE AND RESPECT	SCIENCE	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE AVAILABILITY AND REASONS BEHIND THE SCARCITY OF WATER
VEGETATION AND WILDLIFE	LEARNER WILL UNDERSTAND THE ECOSYSTEM AND THE VARIOUS TYPES OF FOREST AND THEIR DISTRIBUTION ON INDIA	GLOBAL AWARENESS AND CRITICAL THINKING	25th July to 29th July	5	WILL MAKE THEN UNDERSTAND THROUGH A FLOW CHART ABOUT ALL THE WILDLIFE OF DIFFERENT	THROUGH DIAGRAMS AND VIDEOS AND WILL ASK SOME QUESTIONS RELATED TO THAT	PICTURES, VIDEOS AND TEXTBOOK	CARE AND RESPECT	SCIENCE, BIOLOGY	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE ECOSYSTEM AND THE VARIOUS TYPES OF FOREST AND THEIR DISTRIBUTION ON INDIA
MINERAL AND POWER RESOURCES	LEARNER WILL UNDERSTAND THE TYPES AND OCCURRENCE OF MINERALS	GLOBAL AWARENESS AND CRITICAL THINKING	1st Aug to 5th Aug	5	WILL MAKE THEN UNDERSTAND ABOUT THE DIFFERENT USES OF POWER AND RESOURCES THROUGH	THROUGH CROSS QUESTIONING ON THE BASIS OF SOME VIDEOS RELATED TO DIVERSITY	PICTURES, VIDEOS AND TEXTBOOK	CARE AND RESPECT	SCIENCE,CHEMISTRY	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE TYPES AND OCCURRENCE OF MINERALS
PARLIAMENTARY GOVERNMENT	LEARNER WILL UNDERSTAND THAT WHY INDIA PREFER PARLIAMENTARY DEMOCRACY.	CITIZENSHIP AND GLOBAL AWARENESS	8th Aug to 19th Aug	8	WILL MAKE THEN UNDERSTAND FORMATION OF GOVERNMENT THROUGH SCHOOL	THROUGH CROSS QUESTIONING ABOUT THE SCHOOL CABINET SYSTEM TO RELATE TOPIC	PICTURES, VIDEOS AND TEXTBOOK	CARE, RESPECT AND RESILIENCE	SCHOOL CABINET SYSTEM, POLITICAL SCIENCE	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THAT WHY INDIA PREFER PARLIAMENTARY DEMOCRACY.
THE EXECUTIVE	LEARNER WILL UNDERSTAND THE FORMATION OF THE GOVERNMENT AND POWERS OF DIFFERENT DESIGNATIONS	CITIZENSHIP AND GLOBAL AWARENESS	22nd Aug to 26th Aug	5	WILL MAKE THEM UNDERSTAND ABOUT WORK PROCESS OF A COURT OF OUR COUNTRY TO RELATE IT	THROUGH CROSS QUESTIONING ABOUT THE SCHOOL CABINET SYSTEM TO RELATE TOPIC	PICTURES, VIDEOS AND TEXTBOOK	CARE, RESPECT AND RESILIENCE	WORK PROCESS OF COURT, POLITICAL SCIENCE	VIDEOS, PICTURES AND TEXTBOOK	LEARNER WILL UNDERSTAND THE FORMATION OF THE GOVERNMENT AND POWERS OF DIFFERENT DESIGNATIONS





## INTERNATIONAL PUBLIC SCHOOL, PURNEA

SUBJECT: Science

GRADE

UNIT and THEME	OBJECTIVE TO BE ACHIEVED	COMPETENCIES	DATE OF START & END	NUMBER OF PERIODS	USE OF INNOVATIVE STRATEGY	CHECKING PREVIOUS KNOWLEDGE	RESOURCES USED	VALUE DERIVED	CROSS CURRICULAR APPROACH TO BE LINK WITH INNOVATION AND GLOBAL CULTURE	ELEMENT OF INNOVATION	LEARNING OUTCOME
Crop production and management	To learn about Crop production: Soil preparation, selection of seeds, Sowing, applying fertilizers, irrigation, weeding, harvesting, storage, Nitrogen fixation	Entrepreneurship	19/04/2022-25/04/2022	6	Use of presentation and videos to make them understand different patterns of cropping.	JAM, Short Quiz, What if, Reverse questioning.	Txt book, Presentation.	Respect	Different cropping patterns in different States.	PPT presentation on cropping pattern and tools, Virtual lab	Student would learn about To learn about Crop production: Soil preparation, selection of seeds, Sowing, applying fertilizers, irrigation, weeding harvesting, storage, Nitrogen fixation
Microorganism friends and foe	To know about Microorganism Benefits and Harm.	environment awareness	26-04-2022-2/05/2022	5	Virtual lab and video presentation of colonies of microorganisms and their development.	Reverse questioning, Think, JAM, Short quiz.	PPT, Videos, Chart, PDF.	Care	Microorganism in Different biogeochemical cycle.	PPT, Virtual lab, Extra reading materials.	Student would learn about Microorganism Benefits and Harms.
Synthetic Fibre and Plastics.	Synthetic clothing materials, Other synthetic materials, especially plastics and problems associated with their excessive use.	Entrepreneurship and self learning	20-06-2022-25/6/22	4	Burning test to distinguish between the fabrics.	Think, Short quiz, Jam, Reverse questioning, Extempore.	Chart, different cloth materials, Videos etc.	Tolerance	Different types of natural fibre grown in different types of soil.	Text book, Charts, laboratory.	Student would know about Synthetic clothing materials, Other synthetic materials, especially plastics: The usefulness of plastics and problems associated with their excessive use.
Force and Pressure	To know about idea of force_ push or Pull change in speed, direction of moving objects and shape of objects by applying force- Contact and Non-contact force.	Independent learning	27/6/22-1/7/22	5	Activities based on Daily life experience Demonstration the change in speed of a moving object its	Extempore, Short quiz, JAM, Activity.	Text book, Activity kit	Resilience	To know about different types of molecular forces.	Text book, Charts, Reading materials.	Student would know about idea of force_ push or Pull change in speed, direction of moving objects and shape of objects by applying force- Contact and Non-contact force
Cell	Cell structure, plant and animal cell, use of Stain to observe, cell organelles- nucleus, vacuole, Chloroplast, cell membrane, cell wall.	Environmental awareness.	4/7/22-8/7/22	5	Use of microscope, preparation of slide, Observation of onion cell and cheek cell.	Short Quiz, JAM, Reverse questioning, Well Rounded.	Microscope, Onion peel, permanent slide of animal cell	Integrity	To know about different structures of materials.	Text book, Videos, Virtual labs.	Student would know about Cell structure, plant and animal cell, use of Stain to observe, cell organelles- nucleus, vacuole, Chloroplast, cell membrane, cell wall.
Different kind of material and their reactions	Student will know about the different types of materials and concept of acid and base.	Entrepreneurship	11/7/22-16/7/22	5	Lab activity,	Short quiz, JAM,	Text book, Chart, Video	self learning	Materials used in coins in earlier days and now.	lab, text book. Activity kit.	Student would know about the different types of materials and concept of acid and base.
Friction	Student will know about the force of friction and its daily life example.	Resilience	18/7/22-27/7/22	5	Daily life based experiment	JAM, Short Quiz, What if, Reverse questioning.	PPT, Videos, Chart, PDF.	self learning and creativity	Daily life examples	Text book, Charts, Reading materials.	Student will know about the force of friction and its daily life example.
How babies are formed	Student will know about the reproductive system and chromosomal determination of sex.	Critical thinking	1/8/22-5/8/22	8	Virtual lab and video presentation of sex determination.	Reverse questioning, Think, JAM, Short quiz.	Chart, different cloth materials, Videos etc.	care		PPT presentation on cropping pattern and tools, Virtual lab	Student will know about the reproductive system and chromosomal determination of sex.
Things change/ react with one another.	Student will know about the different types of changes and concept of metal and nonmetals.	Problem solving	8/8/22-12/8/22	5	combustion and experiment with daily life objects.	Think, Short quiz, Jam, Reverse questioning, Extempore.	Text book, Activity kit	integrity	Chemical history of candles.	PPT, Virtual lab, Extra reading materials.	Student will know about the different types of changes and concept of metal and nonmetals.
Light	Student will know about the light and its related phenomenon like image formation, rainbow formation, mirage.	Resilience	16/8/22-23/08/22	5	mirror, source of light, Lenses, prism.	Extempore, Short quiz, JAM, Activity.	Txt book, Presentation.	integrity	structure of Human eye.	Text book, Charts, laboratory.	Student will know about the light and its related phenomenon like image formation, rainbow formation, mirage.
Why conserve	Student will know about the different types of animals and why do we need to conserve them.	environment care	24/8/22-26/8/22	3	conservation of wild life /plants and sanctuaries.	Short Quiz, JAM, Reverse questioning, Well Rounded.	PPT, Videos, Chart, PDF.	care	Distribution of animal according to climatic condition.	Text book, Charts, Reading materials.	Student will know about the different types of animals and why do we need to conserve them.
Rain thunder storm	Student would understand the concept of rain thunder and storm and their root causes and mechanism.	Independent learning	30/8/22-4/9/22	5	Comb paper experiment, conductor insulator.	Short quiz, JAM,	Chart, different cloth materials, Videos etc.	Tolerance	Articles on cloud carrying positive and negative charges. And discussion sparks and comb paper experiment.	Text book, Videos, Virtual labs.	Student would understand the concept of rain thunder and storm and their root causes and mechanism.
Sound	Student will be able to know about and differentiate between noise and sound.	environmental awareness	6/9/22-14/9/22	9	Video presentation and explanation of its working.	Think, Short quiz, Jam, Reverse questioning, Extempore.	Text book, Activity kit	care	Designing toy telephone identifying various sources of noise.	lab, text book. Activity kit.	Student will be able to know about and differentiate between noise and sound.