KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION
(For Summer Station Kendriya Vidyalayas)
SPLIT-UP SYLLABUS
SESSION 2021-22

NCERT TEXT BOOKS: **HONEY DEW**
                    IT SO HAPPENED

CLASS: VIII   **SUBJECT: ENGLISH**

S.NO	Name of the Examination		CHAPTER	TENTATIVE NO OF PERIODS REQUIRED	NO.OF PERIODS AVAILABLE	TENTATIVE NO OF WORKING DAYS AVAILABLE	MONTH
			Term I				
1	PART – I Periodic Test 1	PROSE: 1. POEM: 1.	BRIDGE COURSE READING WRITING: NOTICE MESSAGE THE BEST CHRISTMAS PRESENT IN THE WORLD THE ANT AND THE CRICKET GRAMMAR: VERB FORMS	1 1 2 1 1	6	9	JUNE
2		PROSE: 2. SUPPLEMENTARY: 1. POEM:2. SUPPLEMENTARY: 2. PROSE: 3.	TSUNAMI HOW THE CAMEL GOT HIS HUMP GEOGRAPHY LESSON CHILDREN AT WORK GLIMPSES OF THE PAST REPORTED SPEECH WRITING: STORY WRITING	2 2 2 2 2 1 1	12	24	JULY
3	PART – II Half Yearly Examination (Cumulative)	POEM: 3. SUPPLEMENTARY: 3. PROSE: 4. POEM: 4. PROSE: 5.	MACAVITY THE MYSTERY CAT THE SELFISH GIANT BEPIN CHOUDHURY'S LAPSE OF MEMORY THE LAST BARGAIN THE SUMMIT WITHIN WRITING: ARTICLE WRITING GRAMMAR: ACTIVE/ PASSIVE VOICE	2 1 2 2 3 1 1	12	23	AUGUST
4		POEM:5. SUPPLEMENTARY: 4. SUPPLEMENTARY: 5.	THE SCHOOL BOY THE TREASURE WITHIN PRINCESS SEPTEMBER WRITING: BIO SKETCH LETTER TO THE EDITOR SPEAKING: EXTEMPORE/ DEBATE REVISION INTEGRATED GRAMMAR	1 2 1 1 3 1 2 1	9	24	SEPTEMBER
			TERM II				
5		PROSE: 6. SUPPLEMENTARY:6	THIS IS JODY'S FAWN LISTENING ACTIVITY THE FIGHT	3 1 2	6	14	OCTOBER

6	PART – III Periodic Test 2	PROSE:7 POEM: 6 PROSE:8 SUPPLEMENTARY:7 SUPPLEMENTARY: 8	A VISIT TO CAMBRIDGE WHEN I SET OUT FOR LYONNESSE A SHORT MONSOON DIARY THE OPEN WINDOW JALEBIS WRITING: ARTICLE WRITING GRAMMAR: DETERMINERS	3 1 3 2 1 1 1	12	24		NOVEMBER
7		PROSE: 9	THE GREAT STONE FACE I SPEAKING: CONVERSATION/ ROLE PLAY WRITING: DIARY ENTRY GRAMMAR: PREPOSITIONS HHW- CCTS READING EXERCISES FOR PRACTICE	3 1 1 1	6	18		DECEMBER
8	PART – IV Session Ending Examination (Cumulative)	PROSE: 10 POEM: 7	THE GREAT STONE FACE II ON THE GRASSHOPPER AND THE CRICKET WRITING: LETTER WRITING(TO THE EDITOR GRAMMAR: CONNECTORS	3 2 1 1	7	20		JANUARY
9		SUPPLEMENTARY: 9 & 10	THE COMET I & THE COMET II WRITING: STORY WRITING REVISION WRITING: MESSAGE/ NOTICE INTEGRATED GRAMMAR ACTIVITIES (EDITING, GAP FILLING, SENTENCE REORDERING)	2 1 4 2	9	23		FEBRUARY
10		REVISION	SESSION ENDING EXAMINATION		1	4		March

Note:
The following lessons are allotted minimum number of periods for **SEA**.
Term1:
1. Supplementary: Children at work
2. Prose: Bepin Choudhury's Lapse of Memory
3. Supplementary: Princess September
Term 2:
1. Poetry: When I set Out for Lyonnesse

The following lessons are meant for **Inter- Disciplinary Project**.
Term1: Prose: Tsunami
Term2: Supplementary: The Comet I & The Comet II

केन्द्रीय विद्यालय संगठन, चेन्नै संभाग

(ग्रीष्मकालीन स्टेशनों पर स्थित केन्द्रीय विद्यालयों के लिए)

पाठ्यक्रम वर्ष 2021-22

विषय- हिंदी

कक्षा - आठवीं   एन.सी.ई.आर.टी. पाठ्यपुस्तक

वसंत भाग -3, भारत की खोज

क्र. सं. S. N.	परीक्षा का नाम NAME OF THE EXAMINATION	अध्याय CHAPTER	आवश्यक संभावित कालांशों की संख्या TENTATIVE NO. OF PERIODS REQUIRED	उपलब्ध कुल कालांशों की संख्या (ऑनलाइन शिक्षण हेतु) NO. OF PERIODS AVAILABLE FOR ONLINE TEACHING	माह MONTH	कार्य दिवसों की संभावित संख्या TENTATIVE WORKING DAYS
1		शून्य माह (Zero month)			अप्रैल-21	23
	भाग -1 आवधिक परीक्षण-1	'सेतु पाठ्क्रम' (ब्रिज कोर्स) पूर्वज्ञान-परीक्षण पढ़ने की समझ के अंश, अनुच्छेद लेखन,वाचन, अपठित गद्य एवं पद्य, व्याकरण 1.ध्वनि 2.लाख की चूड़ियाँ	3 1 2	6	मई-जून-21	9
2.	PART-1 PERIODIC TEST-1	3. बस की यात्रा 4. दीवानों की हस्ती •भारत की खोज- (I) अहमदनगर का किला (II) तलाश • पत्र लेखन • अपठित बोध (गद्य) विषय संवर्धन गतिविधि	2 2 2 2 2 2	12	जुलाई -21	24

3	मध्यावधि परीक्षा	5. चिट्ठियों की अनूठी दुनियाँ **6. भगवान के डाकिए (केवल गतिविधि के लिए)** 7. क्या निराश हुआ जाए •भारत की खोज- सिन्धु घाटी सभ्यता (आर्यों का आना से महाभारत तक) अनुच्छेद लेखन विषय संवर्धन गतिविधि	2 1 2 4 3	12	अगस्त-21	23
		•भारत की खोज- सिन्धु घाटी सभ्यता (भगवतगीता से अशोक तक) युगों का दौर **8. यह सबसे कठिन समय नहीं (केवल गतिविधि के लिए)** विषय संवर्धन गतिविधि अपठित बोध (गद्य) 9. कबीर की साखियाँ	3 3 1 2 3	12	सितम्बर-21	24
4	भाग -2 आवधिक परीक्षण-2 PART-2 PERIODIC TEST-2	10. कामचोर •भारत की खोज- नई समस्याएँ	3 3	6	अक्टूबर-21	14
		11. जब सिनेमा ने बोलना सीखा (केवल गतिविधि के लिए) **12. सुदामा चरित (केवल गतिविधि के लिए)** 13. जहाँ पहिया है •भारत की खोज- अंतिम दौर - एक विषय संवर्धन गतिविधि	2 2 4 4	12	नवंबर-21	24
		14. अकबरी लोटा 15. सूर के पद •भारत की खोज-	3 3 4	10	दिसंबर-21	18

		अंतिम दौर- दो				
5.	वार्षिक परीक्षा	•भारत की खोज- तनाव 16. पानी की कहानी (केवल गतिविधि के लिए) 17. बाज और साँप विषय संवर्धन गतिविधि	4 3 4	11	जनवरी-22	20
		18. टोपी •भारत की खोज- दो पृष्ठभूमियाँ पुनरावृति	4 4 4	12	फरवरी-22	23
		वार्षिक परीक्षा	3	3	मार्च-22	6

टिप्पणी - निम्नलिखित पाठों से लिखित परीक्षा में प्रश्न नहीं पूछे जाएंगे , ये पाठ केवल गतिविधि के लिए हैं।

1. भगवान के डाकिए
2. यह सबसे कठिन समय नहीं
3. जब सिनेमा ने बोलना सीखा
4. सुदामा चरित
5. पानी की कहानी

केन्द्रीय विद्यालय संगठन . चेन्नै संभागः

KENDRIYA VIDYALAYA SANGATHAN . CHENNAI REGION

SPLIT UP SYLLABUS 2021-22

विषय : SUBJECT संस्कृतम् SANSKRIT CLASS VIII

क्रम. सं	मास:	तात्कालीन अवध	आनलाइन शिक्षणार्थम् अवधय:	पाठ्यवस्तु
S.No.	Month	Period	Tentative no of periods available	Topic
				TERM 1
	अप्रैल			
1	मई/जून	9	2	सुभाषितानि
2	जुलै	24	4	बिलस्यवाणी न कदापि मे श्रुता
3				डिजी भारतम्
4	अगस्त	23	4	सदैव पुरतो निधेहि चरणम्
5				कण्टकेनैव कण्टकम् (केवलं श्रवणार्थम्)
6	सितम्बर्	24	4	गृहम् शून्य सूता विना
7				भारत जनताहम्(केवलं उच्चारणार्थम्)
				TERM 2
8	अक्तूबर	14	2	संसार सागरस्य नायका:(केवलं पठनार्थम्)
10	नवम्बर्	24	4	सप्तभगिन्य:
11				नीतिनवनीतम्
11	दिसम्बर	18	3	सावित्री भाई फुले(केवलं पठनार्थम्)
12	जनवरी	20	4	कः रक्षति कः रक्षितः
13				क्षितौ राजते भारतस्वर्णभूमिः
14	फरवरी	23	4	आर्यभटः
15				प्रहेलिकाः
	मार्च	6	2	पुनरावर्तनम्

MONTH/ NUMBER OF PERIODS	NAME OF THE CHAPTER	TOPIC/CONTENT TO BE COVERED	LEARNING OBJECTIVES	LEARNING OUTCOMES	ACTIVITY	LINK OF THE ACTIVITY FOR SELF LEARNING	DELETED TOPICS
APRIL(7)	RATIONAL NUMBERS	1.1 INTRODUCTION 1.2 PROPERTIES OF RATIONAL NUMBERS 1.3 REPRESENTATION OF RATIONAL NUMBERS ON THE NUMBER LINE	1. Define rational number in order to identify whether the given number is a rational number or not 2. Apply the properties of natural numbers, whole numbers and integers with respect to all the arithmetic operations and extend them for rational numbers 3. Define the additive and multiplicative identity of rational numbers using prior knowledge. 4. Define the additive and multiplicative inverse of rational numbers using prior knowledge of integers and fractions. 5. Apply Distributive property of multiplication over addition for rational numbers and simplify a given expression. 6. Extend the concepts of number line in order to represent rational number on the number line.	Explores patterns in arithmetic operations in order to generalize properties of addition, sybtraction, multiplication and division for rational numbers.	TO REPRESENT RATIONAL NUMBERS ON A NUMBER LINE	https://www.google.com/search?q=to+represent+a+rational+number+on+a+number+line+-video&oq=to+represent+a+rational+number+on+a+number+line+-	1. 1.4 RATIONAL NUMBERS BETWEEN TWO RATIONAL NUMBERS 2. EXERCISE 1.2 QUESTIONS 4, 5 & 7
APRIL(10)	LINEAR EQUATIONS IN ONE VARIABLE	2.1 INTRODUCTION 2.2 SOLVING EQUATIONS WHICH HAVE LINEAR EXPRESSIONS ON ONE SIDE AND NUMBERS ON THE OTHER SIDE 2.3 SOME APPLICATIONS 2.4 SOLVING EQUATIONS HAVING THE VARIABLE ON BOTH THE SIDES 2.5 SOME MORE APPLICATIONS	1. Identify the variable(s) and the highest power of the variable in a given algebraic equation and distinguish whether it is a linear equation in one variable or not. 2. Substitute the given values of variable and verify whether it is the solution of the equation or not. 3. Transpose terms to the other side in order to solve linear equations which have linear expression on one side and numbers on the other side. 4. Write simple contextual problems as linear equations in one variable and find its solution. 5. Transpose terms to the other side and solve linear equations in one variable.	Use variables in order to solve puzzles and daily life problems	To solve linear equations using activity	https://www.youtube.com/watch?v=NbCFLONe6RA	1. - 2.6 REDUCING EQUATIONS TO SIMPLER FORM 2.- 2.7 EQUATIONS REDUCIBLE TO LINEAR FORM 3. EXERCISE 2.4 QUESTIONS 6 TO 10 4. EXERCISE 2.5 FULL & EXERCISE 2.6 FULL
JUNE(12)	ALGEBRAIC EXPRESSIONS AND IDENTITIES	9.1 WHAT ARE EXPRESSIONS 9.2 TERMS, FACTORS & COEFFICIENTS 9.3 MONOMIAL, BINOMIAL & POLYNOMIAL 9.4 LIKE & UNLIKE TERMS 9.5 ADDITION & SUBTRACTION OF ALGEBRAIC EXPRESSIONS 9.6 MULTIPLICATION OF ALGEBRAIC EXPRESSIONS - INTRODUCTION 9.7 MULTIPLYING MONOMIAL BY MONOMIAL 9.8 MULTIPLYING MONOMIAL BY POLYNOMIAL 9.9 MULTIPLYING POLYNOMIAL BY POLYNOMIAL 9.10 WHAT IS AN IDENTITY 9.11 STANDARD IDENTITIES	1. Count the number of terms in an algebraic expression and classify them as monomial, binomial, trinomial or polynomial in general. 2. Identify like and unlike terms in algebraic expressions and add or subtract the given algebraic expressions. 3. Use rules of exponents and powers and multiply a monomial by a monomial 4. Extend the multiplication of monomial by a monomial and obtain the product of any number of monomials. 5. Use distributive property of multiplication over addition and subtraction and obtain the product of monomial and a binomial. 6. Use distributive property of multiplication over addition and subtraction and obtain the product of monomial and a trinomial. 7. Use distributive law of multiplication and obtain the product of two binomials. 8. Use distributive law of multiplication and obtain the product of a binomial and a trinomial. 9. Define and compare equation and identity and classify a given question into either of the two. 10. Use multiplication of binomials and explore and verify the standard identities for squares of binomials.	1. Apply distributive property in order to multiply two algebraic expressions. 2. Use various algebraic identities in order to solve problems of daily life.	1. Algebra with paper cutting =(a+b)(a+b) 2. Algebra with paper cutting - a^2 - b^2	https://www.youtube.com/watch?v=BHCQ5sYsVS8 https://www.youtube.com/watch?v=IpxKihhu_M8	1. EXERCISE 9.3 QUESTION 4 2. EXERCISE 9.5 QUESTIONS 6, 7 & 8

MONTH/ NUMBER OF PERIODS	NAME OF THE CHAPTER	TOPIC/CONTENT TO BE COVERED	LEARNING OBJECTIVES	LEARNING OUTCOMES	ACTIVITY	LINK OF THE ACTIVITY FOR SELF LEARNING	DELETED TOPICS
JULY(8)	FACTORISATION	14.1 INTRODUCTION 14.2 WHAT IS FACTORISATION 14.3 DIVISION OF ALGEBRAIC EXPRESSIONS 14.4 DIVISION OF ALGEBRAIC EXPRESSIONS CONTINUED	1. Express each term as a product of irreducible factors and find the common factors of the given terms. 2. Use the method of common factors and factorize the given algebraic expression 3. Regroup the terms and factorize the given algebraic expressions 4. Apply the standard algebraic identities and factorize the given algebraic expressions(for perfect squares) 5. Factorize algebraic expressions in the form and express it as a product of its irreducible factors of the form. 6. Use the common factor method and divide a monomial by a monomial 7. Use the common factor method and divide a polynomial by a monomial 8. Divide each term in the numerator by the denominator and divide a polynomial by a monomial 9. Use the common factor method and divide a polynomial by a polynomial	1. Differentiates between expansion and factorisation 2. Understands the factors 3. Understands the suitable identitity.	Activity for splitting by middle term	https://www.youtube.com/watch?v=wP-DrNWikmY	1. EXERCISE 14.2 QUESTION 5 2. EXERCISE 14.3 QUESTIONS 4 & 5; 3. EXERCISE 14.4 FULL 4. 14.5 CAN YOU FIND THE ERROR?
JULY(4)	EXPONENTS AND POWERS	12.1 INTRODUCTION 12.2 POWERS WITH NEGATIVE EXPONENTS 12.3 LAWS OF EXPONENTS	1. Simplify powers with negative exponents and calculate the multiplicative inverse of a number. 2. Apply the first law of exponents and principles of negative exponents and derive the rest of the laws of exponents. 3. Apply laws of exponents and simplify a given expression. Give different examples of application of the laws.	Apply rules of exponents in order to solve problems with integral exponents.	LAWS OF EXPONENTS	https://www.youtube.com/watch?v=vLSkRi5_HKQ	1. USE OF EXPONENTS TO EXPRESS SMALL NUMBERS IN STANDARD FORM 2. EXERCISE 12.2 FULL
AUGUST(3)	PLAYING WITH NUMBERS	16.1 INTRODUCTION 16.2 NUMBERS IN GENERAL FORM 16.3 GAMES WITH NUMBERS 16.4 LETTERS FOR DIGITS	1. Use the concepts of place value and express the given numbers in their generalized form. 2. Apply the divisibility rule of 11 and check whether a given number is divisible by 11 or not. 3. Add or subtract a two-digit number and its reverse and check whether it is divisible by 9 or not 4. Subtract a three-digit number and its reverse and verify that it is divisible by 99 5. Form all possible three-digit numbers using the given 3 digits and verify that the sum of these numbers will be divisible by 37 6. Use addition and multiplication and find the values of the letters in the given puzzles	Observe patterns using algebraic operations in order to derive the divisibility rules of 2, 3, 4, 5, 6, 9 & 11.	Playing with Numbers (activity) - SUM OF N ODD NUMBERS -PATTERN	https://www.youtube.com/watch?v=dmqadIisEs8	1. 16.5 TESTS OF DIVISIBILITY; 2. EXERCISE 16.2 FULL
AUGUST(7)	DIRECT AND INVERSE PROPORTIONS	13.1 INTRODUCTION 13.2 DIRECT PROPORTION 13.3 INVERSE PROPORTION	1. Observe the relationship between the given two quantities and solve to find the constant of proportionality 2. Examine situations and decide whether two quantities are proportional to each other or not 3. Complete a given table showing two proportional quantities and answer questions based on them. 4. Convert the given statement on relationship (directly or inversely proportional) between two quantities into a table and identify the missing quantity and solve for its value. 5. Observe the table and determine which pair of variables are inversely proportional. 6. Create a scale using a suitable proportionality constant and draw a given figure with large dimensions.	Solve problems based on direct or inverse proportions in order to establish how one quantity depends on other.	Direct proportions	https://www.youtube.com/watch?v=kuvdMCDqmKg	NIL
SEPTEMBER(6)	INTRODUCION TO GRAPHS	15.1 INTRODUCTION 15.2 LINEAR GRAPHS 15.3 SOME APPLICATIONS	1. Draw a line graph and represent the given data that changes continuously over periods of time 2. Interpret the given line graph and answer the given questions 3. Plot a point on the graph and describe its coordinates. 4. Plot the given points on the graph and verify if they lie on the same line or not 5. Choose an appropriate scale and plot a graph for the given data 6. Construct the line graph and discuss the relationship between independent and dependent variable in a given mathematical or a real life situation.	1. Identifies different graphs 2. Understands the information from the graph 3. Represent the data on the graph.	Exercise problems	https://www.youtube.com/watch?v=n2YkbdNORp8	NIL

MONTH/ NUMBER OF PERIODS	NAME OF THE CHAPTER	TOPIC/CONTENT TO BE COVERED	LEARNING OBJECTIVES	LEARNING OUTCOMES	ACTIVITY	LINK OF THE ACTIVITY FOR SELF LEARNING	DELETED TOPICS
OCTOBER (10)	UNDERSTANDING QUADRILATERALS	3.1 INTRODUCTION 3.2 POLYGONS 3.3 SUM OF MEASURES OF THE EXTERIOR ANGLES OF A POLYGON 3.4 KINDS OF QUADRILATERALS 3.5 SOME SPECIAL PARALLELOGRAMS	1. List the properties of a polygon and classify the given figures as a polygon 2. List the properties of different types of polygons and classify them as regular or irregular, concave or convex. 3. Recall the angle sum property of triangle and extend it for quadrilaterals. 4. Relate the angle sum property of triangle and quadrilateral and extend it for an n - sided polygon. 5. Apply angle sum property of a quadrilateral and find the measure of the unknown angle in a given quadrilateral. 6. Apply exterior angle property of a polygon and find the measure of the unknown angle in a given figure. 7. List the properties of quadrilaterals and classify them as trapezium, kite and parallelogram. 8. Discuss the properties of a parallelogramin order to describe the relation between its opposite sides, angles and diagonals. 9. Discuss the properties of a rhombus and classify it as special case of kite and parallelogram. 10. Discuss the properties of a rectangle and show that it is a special case of parallelogram. 11. Discuss the properties of a square and show it as special case of parallelogram, rhombus and rectangle.	1. Use angle sum property in order to solve problems related to angles of quadrilateral 2. Apply reasoning through activities such as constructing parallelograms, drawing their diagonals and measuring their sides and angles in order to verify properties of parallelograms.	Angle sum property of a quadrilateral	https://www.youtube.com/watch?v=xmBJiDdMXVc	1. EXERCISE 3.3 QUESTIONS 4, 5 &6 2. EXERCISE 3.4 QUESTION 6
NOVEMBER(6)	PRACTICAL GEOMETRY	4.1 INTRODUCTION 4.2 CONSTRUCTING A QUADRILATERAL	1. Discuss and list the minimum number of elements required and construct a unique quadrilateral. 2. List and execute steps of construction and construct a quadrilateral length if its four sides and a diagonal are given. 3. List and execute steps of construction and construct a quadrilateral length if its three sides and two diagonals are given. 4. List and execute steps of construction and construct a quadrilateral if length of two adjacent sides and measures of three angles are known. 5. List and execute steps of construction and construct a quadrilateral given the length of three sides measures of two included angles are known.	Use compasses and straight edge in order to construct a given quadrilateral.	Exercise problems	https://www.youtube.com/watch?v=Pz64J1hJV8E	EXERCISE 4.5 FULL
NOVEMBER(5)	DATA HANDLING	5.1 LOOKING FOR INFORMATION 5.2 ORGANISING DATA 5.3 GROUPING DATA CIRCLE GRAPH OR PIE CHART	1. Use tally marks and organise the given raw data in a frequency distribution table 2. Use tally marks and prepare a grouped frequency distribution table for large ungrouped data 3. Construct histogram and represent the given grouped data 4. Explain the elements of the given histogram and interpret it. 5. Construct a circle graph with the given data 6. Infer a variety of information from a given circle graph.	Draw and interpret bar graphs and pie charts in order to answer a variety of questions based on them.	Pie chart	https://www.youtube.com/watch?v=1oShnkmA_ww	EXERCISE 5.3 FULL

MONTH	CHAPTER	TOPICS	LEARNING OUTCOMES				
DECEMBER(6)	SQUARES AND SQUARE ROOTS	6.1 INTRODUCTION 6.2 PROPERTIES OF SQUARE NUMBERS 6.3 SOME MORE INTERESTING PATTERNS 6.4 FINDING THE SQUARE OF A NUMBER 6.5 SQUARE ROOTS 6.6 SQUARE ROOTS OF DECIMALS	1. Define perfect squares in order to classify the given numbers as perfect squares or non - perfect squares. 2. Observe the number in order to find the unit place of its square 3. Observe different number patterns and deduce square numbers 4. Use the rule that there are exactly 2n non-perfect square numbers between the squares of the number n and (n + 1) and find how many numbers, lie between the squares of the given two consecutive numbers 5. Use the rule that a perfect square number (n^2) can be written as the sum of first n odd Natural numbers and distinguish between square and non - square numbers 6. Apply inverse operations on a given perfect square and deduce square root of this number 7. Use prime factorization method and find the square root of the given perfect square 8. Use prime factorization method and determine whether the given number is a perfect square or not 9. Use long division method and find the square root of the given perfect square number 10. Use long division method and find the square root of the given decimal number	Apply different methods in order to find the squares and square roots of a given number	To find sum of n terms using paper foldings	https://www.youtube.com/watch?v=uEwOPEWoocE	1. EXERCISE 6.1 QUESTIONS 7, 8 & 9 2. EXERCISE 6.2 QUESTION 2 3. EXERCISE 6.3 QUESTIONS 3, 5 TO 10; 4. EXERCISE 6.4 QUESTIONS 4 TO 9
DECEMBER(3)	CUBES AND CUBE ROOTS	7.1 INTRODUCTION 7.2 CUBES 7.3 CUBE ROOTS	1. Define perfect cube/cube number and classify the given numbers as cubes or non - cube numbers 2. Observe the pattern of cube of even numbers and generalize that cubes of even numbers are even 3. Observe the pattern of cube of numbers with one's digit as 1, 2, 3, 4, ..and explore the one's digit of their perfect cubes and comment on it 4. Add n consecutive odd numbers and get the sum equal to n^3 5. Use prime factorization and rule out a number as a perfect cube 6. Use prime factorization on the given number and find the smallest number to be operated (all the four arithmetic operations) on given number to get a perfect cube 7. Use prime factorization and find the cube root of a given number.	Apply different methods in order to find the cubes and cube roots of a given number	NIL	NIL	1. EXERCISE 7.1 QUESTIONS 2 & 3 2. EXERCISE 7.2 QUESTIONS 2 & 3
DECEMBER(4)	VISUALISING SOLID SHAPES	10.1 INTRODUCTION 10.2 VIEWS OF 3D SHAPES 10.4 FACES, EDGES AND VERTICES	1. Compare 2D shapes and 3D shapes and classify a given shape into either 2. Identify different shapes in nested objects and match the object with its shape 3. Visualize 3D objects and draw them from different perspectives 4. Discuss the given front, top and side view of an object and identify the object 5. Identify faces, edges and vertices in a given solid and classify it as a polyhedron or a non - polyhedron 6. Count vertices, edges and faces in 3D figures with flat faces and verify Euler's formula	1. Visualize 3-D shapes in order to represent them in a plane surface such as sheet of paper, black board, etc. 2. Analyze patterns in order to verify Euler's relation	Exercise problems- Art Integrated	https://www.youtube.com/watch?v=Dy5kSTjPQj8	1. 10.3 MAPPING SPACE AROUND US 2. EXERCISE 10.2 FULL
			PERIODIC TEST III JANUARY SECOND WEEK				
JANUARY(12)	COMPARING QUANTITIES	8.1 RECALLING RATIOS AND PERCENTAGES 8.2 FINDING THE INCREASE AND DECREASE PERCENT 8.3 FINDING DISCOUNTS 8.4 PRICES RELATED TO BUYING AND SELLING (PROFIT & LOSS) 8.5 SALES TAX/ VALUE ADDED TAX/ GOODS AND SERVICESTAX 8.6 COMPOUND INTEREST 8.8 RATE COMPOUNDED ANNUALLY	1. Convert ratios to percentage and solve the given equations 2. Apply the formula for discount and discount percentage and solve the given problem on discount 3. Calculate the discount in given situations and comment whether the seller has made a profit/loss in the given transaction 4. Define and compare simple interest and compound interest and comment on the situations where either of the two are applied 5. Calculate the simple interest and find the total amount to be paid by the debtor 6. Calculate the compound interest and find the total amount to be paid by the debtor	Observe a given context in order to apply the concepts of profit and loss, discount, VAT, simple and compound interest	NIL	NIL	1. 8.7 DEDUCING A FORMULA FOR COMPOUND INTEREST 2. 8.9 APPLICATIONSOF COMPOUND INTEREST FORMULA 3. EXERCISE 8.2 QUESTIONS 6, 7 & 8; 4. EXERCISE 8.3 QUESTION 1 - (c), (d) & (e) & QUESTIONS 5 TO 12
JANUARY/ FEBRUARY (15)	MENSURATION	11.1 INTRODUCTION 11.2 LET US RECALL 11.3 AREA OF TRAPEZIUM 11.4 AREA OF GENERAL QUADRILATERAL 11.5 AREA OF POLYGON 11.6 SOLID SHAPES 11.7 SURFACE AREA OF CUBE, CUBOID AND CYLINDER 11.8 VOLUME OF CUBE, CUBOID AND CYLINDER 11.9 VOLUME AND CAPACITY	1. Calculate area and perimeter of circle, square, rectangle, triangle and calculate area and perimeter of adjoint shapes 2. Breakdown a given trapezium into known figures (triangles, squares, rectangles) and derive the formula for the area of a trapezium 3. Calculate the area of a given polygon after breaking down the polygon in multiple ways and compare the values and comment on it 4. Illustrate 2-D representation of a cuboid, cube and cylinder and compute the surface areas by breaking them into areas of known figures 5. Calculate the surface area of a cube, cuboid and cylinder to determine the cost of painting/covering their surface 6. Calculate the volume of a given cube, cuboid, cylinder and infer the quantity of any substance it can hold 7. Modify the values of l, b, h and examine the effect it has on the value of the surface area/volume of a cuboid 8. Modify the values of r, h and examine the effect it has on the value of the surface area/volume of a cylinder 9. Calculate the volume of a given cuboid, cylinder and determine the time taken to fill it with a liquid at a given rate	Use appropriate formulae in order to find surface area and volume of cuboidal and cylindrical object	Activity - Relationship between volume of cone and cylinder	https://www.youtube.com/watch?v=0ZACAU4SGyM	1. EXERCISE 11.2 QUESTIONS 9, 10 & 11 2. EXERCISE 11.3 QUESTIONS 6 TO 10 3. EXERCISE 11.4 QUESTIONS 7 & 8
FEBRUARY			**REVISION FOR SESSION ENDING EXAMINATION**				
MARCH			**SESSION ENDING EXAMINATION 2022**				

SELF LEARNING VIDEOS

https://www.youtube.com/watch?v=uR5PeMpnMvo&list=PLW6ZJtqCeoWv2-bp57H5A_cz5WrnkVv0r

ACTIVITIES - PRACTICALS, PROJECTS

PART 1
https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classItoVIII/mathematics/ahelm103.pdf

PART 2
https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classItoVIII/mathematics/ahelm104.pdf

PART 3
https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classItoVIII/mathematics/ahelm105.pdf

PART 4
https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classItoVIII/mathematics/ahelm106.pdf

Sl. No.	Name of the Exam	CHAPTER	TENTATIVE NO. OF PERIODS REQUIRED	MONTHS	Tentative No. of working days available	Learning Outcomes	Activities and Resources	Assessment areas
1	PART – I Periodic Test 1	SYNTHETIC FIBRES AND PLASTICS	5	APRIL	16	Differentiates and classifies natural and man-made materials applies concepts in day-to-day life, makes efforts to protect environment by following 5Rs.	1.Textual activities- 2. Solicit a campaign -Say No to Plastics and few more relevant slogans. 3.Debate-My fabric is Superior [Natural and Synthetic] 4.Write slogans to create an awareness about 5Rs a.https://diksha.gov.in/play/content/do_31258036813 4692864211784. . b. NCERT Textbook. c. NCERT E-Resources NROER	Participation Relevance Presentation Confidence Knowledge Message
2		MATERIALS: METALS AND NON METALS	5			Classifies metals and non-metals based on their physical and chemical properties and writes word equation for chemical equations.	1.Textual activities 2.Collect and identify items from house made of metals and non-metals a.https://diksha.gov.in/play/content/do_31258036844 4579840211798. b.https://nroer.gov.in/55ab34ff81fccb4f1d806025/file /58a3fd42472d4a68b79527f2	Observation Involvement Presentation
3		COAL AND PETROLEUM	4	MAY/ JUNE	06	Classifies petroleum products, differentiates various fractions of petroleum, discusses fossil fuels, and makes	1.Textual activities. 2.Prepare a poster depicting types of natural resources-exhaustible and inexhaustible. a.	Participation Relevancy Neatness Attraction

						efforts to use resources judiciously.	https://www.youtube.com/watch?v=A0VWuz6zRes Coal and Petroleum b.http://ncert.nic.in/ncerys/1/heep105.pdf	Message
4		COMBUSTION AND FLAME	4			Learner seeks queries about combustion and conditions needed for combustion, differentiates combustible and non-combustible substances, draws labelled diagram of structure of flame, applies the concepts to use the fire extinguisher and to control fire sources.	1.Prepare a list of substances from your household which are combustible and non-combustible 2. Draw a labelled diagram of the structure of a flame. 3.Make a model of fire extinquisher by using household substances. Combustion and flame a.http://ncert.nic.in/ncerts/1heep106.pdf	Involvement Perfection Sequence Presentation Involvement Neatness Correctness Low cost Working model/Non-working model
5		FORCE AND PRESSURE	3	JULY	16	Learner appreciates and differentiates force, pressure, contact and non-contact force etc. also conducts simple investigations of related concepts, applies scientific concepts in everyday life also constructs simple models for illustration.	1.Textual activities. 2. Make a model to explain how liquid exerts pressure on the walls of the container. a.http://ncert.nic.in/textbook/textbook.htm?hesc1=11-18 b.http://www.ncert.nic.in/exemplar/labmanuals.html c.http://ncert.nic.in/ncerts/1/heep111.pdf	Model making Nature of materials Working/Non working models Conceptual clarity/Involvement/Appreciation
6		CROP PRODUCTION AND IMPROVEMENT	3			The learner classifies kharif and rabi crops, relates various agricultural processes, applies concepts in day-to-day life, discusses green revolution and develops efforts to protect the	1.Possible textual activities to be carried out. 2.Collection of animal pictures and classify them under - milk, egg, meat producing animals. 3.Prepare a detailed report on kharif and rabi crops with examples. 4.Write a short note on Green Revolution. a. NCERT Textbook. b. NCERT E-Resources NROER c.http://www.ncert.nic.in/ exemplar/labmanual	Content Relevance Extent of Participation Areas covered Involvement Conclusion and Any other

							environment	s.html. d. https://diksha.gov.in e.https://en.wikipedia.org/wiki/	special mention.
7	PART – II Half Yearly Exam (Cumulative)	MICRO ORGANISMS: FRIENDS AND FOE	5	AUGUST	16		The learner differentiates microorganisms as friend and foe, able to discuss communicable and non-communicable diseases, anti-bodies, antibiotics, vaccines, vaccination, and food preservation techniques.	1.Textual activities 2.Collect the labels from the bottles of jams and jellies and write down the list of contents printed on the labels. 3.Prepare a short report-Why antibiotics should not be overused a.https://diksha.gov.in/play/content/do_313276167032053760118879 .www.microorganism.com b.www.biology4kids.com/files/micro_main.htm	Correctness Reasoning Interpretation Involvement Inference.
8		CELL: STRUCTURE AND FUNCTIONS	5				Learner appreciates cell, its discovery, structure, prokaryotes, eukaryotes, unicellular, multicellular, and comparison of plant and animal cells.	1.Textual activities. a.www.sciencebuddies.com b.www.enchaTedbearing.com/subject/plants/cell	Lab oriented group/individual Responses.
9		REPRODUCTION IN ANIMALS	5	SEPTEMBER	16		Learner defines the definition, differentiates sexual and asexual reproduction, identifies the parts of reproductive organs, explains fertilization, metamorphosis, viviparous and oviparous animals, and zygote as well.	1.Textual activities. 2.MCQs from Cloning technology. a.www..saburchill.com/chapters/chap0031.html b.www.extramarks.com c.www.wikipedia.org.	Content of MCQs/ Choice of options/ Relevancy Level of Questions.
10		REACHING THE AGE OF ADOLESCENCE	5				Learner discusses and appreciates adolescence, puberty, hormones, secondary sexual	1.Possible textual activities. 2.Prepare a worksheet on balanced diet or list of food required at the age of adolescence or demerits of junk food.	Worksheet Introduction Relevancy Presentation

						characters, and reproductive health.	a.Www.adolescenthealth.com b.Www.teenshealth.org c.Www.teenshealth.org/teen/sexual health.	Conclusion
11	PART – III Periodic Test 2	CONSERVATION OF PLANTS AND ANIMALS	4	OCTOBER	12	Learner speaks about biodiversity, deforestation, consequences of deforestation, ecosystem, flora and fauna, endangered species, and endemic species.	1.Textual activities. 2.Study a biodiversity of a park nearby and prepare a detailed report with photographs and sketches of flora and fauna. 3. Report on causes of deforestation, Biodiversity hot spots a.www.biodiversityhotspots.org b.www.plantstrees.org/plant.htm	Presentation Content Methodology Reference Interpretation Conclusion.
12		FRICTION	3			Learner appreciates the concept-friction is called necessary evil, makes efforts to apply the concepts, conducts simple textual experiments,	1.Textual activities. 2.Friction is called a necessary evil . Justify with familiar life examples .a.Http://particleadventure.org/particleadventure/ b.http://physicsweb.org/resources/index.cffm/EducatioNal/Interactiveexperiments	Oral/ Role play and the required sequences for assessment.
13		SOUND	5	NOVEMBER	16	Enjoys the concepts- vibrating body produces sound, vibrations of vocal cords, discusses about loudness, vacuum, hertz, amplitude, conducts simple investigations on noise pollution, harms of noise pollution and measures to limit noise pollution.	1.Textual activities . 2.Prepare a report of famous Indian musicians and the instruments they play 3.Make a model of human ear with its parts. a..Www.physicsclassroom.com/mmedia/estatics/estaticTOC.html b.www.worsleyschool.net/science/files/aboutsound/page.html	Presentation Subjectivity Knowledge Application Conclusion.
14		CHEMICAL EFFECTS OF ELECTRIC CURRENT	5			Learner understands the concepts of chemical effects of electric current,	1.Textual activities. 2. Make an experimental setup to test the conduction of electricity through various fruits and vegetables	Project/Experiments/Innovative projects with the

							differentiates insulators and conductors Discusses LED, electroplating.	and tabulate the results. 3.Set up an experimental mode to show that heating effect or magnetic effect .a.Electronics.howstuffworks.com/led.htm b.http://www.ncert.nic.in/exemplar/labmanuals.html	required areas of assessment.
15		SOME NATURAL PHENOMENA	4				Learner explains electric charges, facts about lightning, earthing, experiments charges by rubbing, electric spark, applies concepts day-to-day life.	1.Textual activities 2. With low cost items how will you show like charges and unlike charges experimentally. 3.Make a model to show the structure of earth with parts a..Www.worsleyschool.net/files/static/electricity.html b.Science.howstuffworks.com/lightning.htm	Correct experimental setup Performing the experiment Observation Result and Discussion.
16		LIGHT	3	DECEMBER	12		Learner discusses sun and stars and appreciates the properties of light, draws and discusses laws of reflection, differentiates regular and irregular reflection, understands parts of eye, relates concepts in day-to-day life, knows about Braille system.	1.Textual activities. 2.Make a pin hole camera /Kaleidoscope model 3.How will you verify the laws of reflection by using plane mirror. 4.Write a short note on Braille System. a.www.glenbrook.k12.il.us/gbssci/phys/mmedia/optics/ifpm.html	Lab.participation Volunteering Home work along with required criteria.
17	PART – IV Session Ending Examination (Cumulative)	STARS AND THE SOLAR SYSTEM	8	JANUARY	14		Enjoys the contributions of renowned inventors Arya Bhatt and Kepler, differentiates meteors and meteorites, appreciates different phases of moon, revolution of moon around	1.Textual activities 2.Prepare a report on the Renowned Inventors-Arya Bhat and Kepler. 3.Make an extensive study on IndianSatellites and their uses a.www.kidsastronomy.com b.Www.grc.nasa.gov/www/k-	Presentation Relevancy Informative Neatness Time frame

						the earth, discusses about artificial satellites.	12/airplane/newton.html c. Http://astronineplanets.org/bigeyes.html	
18		POLLUTION OF AIR AND WATER	8	FEBRUA RY	16	Learner classifies different types of pollution, pollutants, understands how air gets polluted, water get polluted, studies water, sewage treatment plants, discusses about global warming, greenhouse effect.	1.Textual activities. 2.Write a brief report on -Ganga Action Plan. 3.Make a visit to a nearby water treatment plant and study how it works. a. Lab manual in science for classes VI-VIII http://www.ncert,nic.in/exemplar/labmanuals.html. b.https://diksha.gov.in/play/collection/do_313221764 04616806414043	Field visit/Action report/ Proper feedback
		Session Ending Examination		March				