KENDRIYA VIDYALAYA SANGATHAN, VARANASI REGION
SPLIT UP OF SYLLABUS (2021-2022)

CLASS: VII   SUBJECT: MATHEMATICS
Total Number of Chapters: 15
Number of Chapters after Reducing (70%): 11
Number of Chapters Allotted Term wise: Term I: 6   Term II: 5

Sr. No.	Month	Term	Number of Working Days	Name of the Book (as applicable) Unit No./Chapter Number/Name of Chapter	Tentative Number of Hours Available	Tentative Number of Periods Required (40 Minutes/pd.)	Highlights of the General Learning Goals and Core Concepts	Suggested Activities/Tools to be Used for Teaching	Assessment Tools and Techniques to be Used for Assessing Expected Learning Outcomes
1	APRIL	TERM I	23	INTEGERS	7	10	. Concept of +ve and –ve integers and their use in real life situation . Understanding and use of properties of Addition/subtraction of integers . Understanding and use of properties of multiplication /division of integers .Understanding and use of Addition/subtraction of fractions	. Playing a game of different rounds with –ve scoring also. **Tools for Teaching:** Google Classrooms / Microsoft Team /Skype /Google meet/ WhatsApp Cisco Web Ex App /any other • Magic square	WORKSHEETS(BY GOOGLE FORM/MICROSOFT FORM etc), Kahoot game-based assessment, Online quiz, Oral test based on mental math
				FRACTIONS AND DECIMALS	7	10			

2	MAY		01	FRACTIONS AND DECIMALS CONTINUED.	1	1	.Understanding and use of multiplication of a fractions	.To divide A fractional no. by another fractional no. by activity method **Tools for Teaching:** Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp Cisco Web ex App /any other	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc), Kahoot game-based assessment, Online quiz, Oral test based on mental math
3	JUNE		09	FRACTIONS AND DECIMALS CONTINUED.	3	5	. Understanding and use of Addition/subtraction of decimals . Understanding and use of multiplication and division of a decimals .multiplication /division by 10,100,1000 on a decimal.	. Representing product of 0.3 x 0.7 on a square paper by drawing horizontal/vertical lines and shading. **Tools for Teaching:** Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp/ Cisco Web ex App /any other	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc), Kahoot game-based assessment, Online quiz, Oral test based on mental math

| 4 | JULY | | | 25 | DATA-HANDLING | 7 | 10 | .Finding various representative values for simple data forms

.To draw and use of bar graph

.To find the mean ,median and mode of the data

.Simple problem based on probability | .To draw the graph of given data

.To collect events and them in certain to happen/impossible/may or may not happen categories. | WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc)
Kahoot game-based assessment
Online quiz
Oral test based on mental math |
| | | | | | SIMPLE EQUATIONS | 2 | 3 | .To understand the concept of simple equation.
To convert the equation in statement form and vice versa. | .To collect some real life examples where we use simple equations

Tools for Teaching : Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp Cisco Web ex App /any other | |

				FIRST TERM/PT 1		First week of August. Syllabus covered up to 31 July is to be included.				
5	AUGUST		23	SIMPLE EQUATIONS CONTINUED. LINES AND ANGLES	3 5	5 7	.To solve simple equation .To solve the word problem .Understanding and use of pairs of angles: supplementary ,complementary adjacent ,linear pair ,VOA .Understanding and use of pairs of lines : parallel lines ,intersecting lines, transversal .Understanding and use of properties of pair of corresponding angles , alternate interior ,exterior angles ,co-interior angles	.To show that corresponding angles formed by transversal on two parallel lines are equal. .To show that alternate angles formed by transversal on two parallel lines are equal. **Tools for Teaching :** Google Classrooms / Microsoft Team /Skype /Googlemeet/WhatsApp CiscoWeb ex App /any other	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc) Kahoot game-based assessment Online quiz
6	SEPTEMBER		25	8. Comparing Quantities	07	10	.Understanding and use of Ratio, Equivalent Ratios. .Understanding and use of	. Students may visit near shops to enquire the cost price and selling price of 5 items	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc)

								Content	Teaching	Assessment
								percentage. .To find Increase or Decrease percent. .To convert fraction to percentage and vice versa. .To convert decimals to percentage and vice versa. .Practical problems on percentage. . To convert Ratios to per cents. . Understanding and use of profit or loss as a percentage. . Understanding and use of Simple Interest.	and can calculate profit or loss accordingly. . Teacher may plan activity for calculating Simple Interest from the bank passbook of their parent. **Tools for Teaching :** Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp Cisco Web ex App /any other	Kahoot game-based assessment Online quiz

| TERM I/HY EXAM | | | First week of October. Entire syllabus of Term I covered up to 30 September is to be included.
NOTE : (1. TRIANGLES AND ITS PROPERTIES 2.CONGRUENCE OF TRIANGLES) 2 CHAPTERS ARE EXCLUDED FROM FIRST TERM TO CURTAIL SYLLABUS 70% ,STUDENTS WILL READ THESE CHAPTERS THEMSELVES. IF FIND ANY DIFFICULTY, MAY CONSULT THEIR SUBJECT TEACHER. NO QUESTIONS WILL BE ASKED FROM THESE IN EXAMS. | | | | | | | |

| 7 | OCTOBER | | | 15 | 9. Rational numbers | 4 | 6 | . Understanding Rational Numbers. | . To arrange the unlike rational numbers in the ascending order. | WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc) |

		TERM II						. Understanding Positive and Negative rational numbers. . To represent the Rational numbers on a number line. . To convert Rational numbers in standard form. . To compare two Rational numbers. . Understanding and use of Operations on Rational Numbers – Addition, Subtraction, Multiplication and Division of Rational Numbers.	. To arrange the unlike rational numbers in the descending order. **Tools for Teaching :** Google Classrooms / Microsoft Team /Skype /Googlemeet/WhatsApp CiscoWeb ex App /any other	Kahoot game-based assessment Online quiz
8	NOVEMBER		20	10. Practical Geometry	7	10	. To construct triangles based on SSS, SAS, ASA and RHS criteria for Congruence of triangles.	. Teacher can give the different triangles to construct based on SSS, ASA and RHS criteria for Congruence of triangles. **Tools for Teaching :** Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp Cisco Web ex App /any other	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc) Kahoot game-based assessment Online quiz

9	DECEMBER			17	11. Perimeter and Area	9	14	. Understanding and use of Area and Perimeter of square and rectangle. . Understanding and use of Area of triangle. .Understanding and use of Area of Parallelogram. . Understanding and use of circumference of a circle. . Understanding and use of Area of a circle. . Understanding and use of conversion of units. . Word problems solving.	. To verify the area of triangle by using activity method. . To verify the relation between the circumference and the diameter of a circle. . To verify the formula for the area of a circle. **Tools for Teaching :** Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp Cisco Web ex App /any other	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc) Kahoot game-based assessment Online quiz
PT II/TERM 2				In the Month of January 2022.Syllabus covered from October up to the commencement of the Winter Break is to be included.						
10	JANUARY			24	12. Algebraic Expressions	08	12	. Understanding the terms of an algebraic expression. . Understanding Like and Unlike terms. . Understanding Monomials, Binomials, Trinomials and Polynomials. . To add and subtract algebraic expressions. . To find the value of an expression.	. Number of pens with Sheela is equal to 5 times the pens with Anita. What is the total number of pens both have together? . Ram and Shyam went to a store. Ram bought 7 books and Shyam bought 2 books. All the	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc) Kahoot game-based assessment Online quiz

						. To use algebraic expressions in Formulas and Rules. .	books are of same cost. How much money did Ram spend more than Ajay?	
11	FEBRUARY		23	13. Exponents and powers. Revision for session ending exam.	08	12	. Understanding of Exponent and Power. . understanding of laws of exponents.	. To find value of an exponential expression of 3^4. .To find the value of 4^3 by using square paper. **Tools for Teaching :** Google Classrooms / Microsoft Team /Skype /Google meet/WhatsApp Cisco Web ex App /any other	WORKSHEETS(BYGOOGLE FORM/MICROSOFT FORM etc) Kahoot game-based assessment Online quiz
12	MARCH	SESSION ENDING EXAMINATION						

NOTE : (1. SYMMERTY 2. VISUALIZING SOLID SHAPES) 2 CHAPTERS ARE EXCLUDED FROM SECOND TERM TO CURTAIL SYLLABUS 70%, STUDENTS WILL READ THES CHAPTERS THEMSELVES. IF FIND ANY DIFFICULTY MAY CONSULT THEIR SUBJECT TEACHER. NO QUESTIONS WILL BE ASKED FROM THESE IN EXAMS.