

CONTINUOUS LEARNING PLAN

SESSION – 2020-21

CLASS – IV

SUBJECT –Mathematics

[illegible]

	Month –May				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-2 Addition and subtraction	You-tube videos and WhatsApp	The learner may be encouraged to: → operate (addition and subtractions) large numbers using standard algorithm. This may be identified as extension of algorithm for one more place. .	-----	The learner: solves simple daily life problems using addition and subtraction of three-digit numbers with and without regrouping, sums not exceeding 9999	Yes, Google form test

Month –June					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-3 Multiplication	You-tube videos and WhatsApp	The learner may be encouraged to → expand the three- or four-digit number and multiply. For example, 235 multiplied by 6 could be solved as follows: $235 \times 6 = (200+30+5) \times 6 = 200 \times 6 + 30 \times 6 + 5 \times 6 = 1200 + 180 + 30 = 1410$ → solve and create daily life problems using multiplication like, if a bicycle costs Rs. 2035 what will be the cost of 7 bicycles? → discuss and evolve standard algorithm for multiplication.	-----	The learner: → applies operations of numbers in daily life → multiplies 3 and 4-digit numbers by 1 or 2-digit numbers.	Yes, Google form test

Month –July					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-4 Division	Google meet and You-tube videos	The learner may be encouraged to: → experience equal sharing and grouping and connecting them mathematically in their own context. For example, sharing of equal number of sweets among children. → use variety of ways to divide numbers like equal distribution and long division method.	-----	The learner: -- divides a given number by another number using standard algorithms.	Yes, Google form test

Month –August					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-5 Multiples and Factors	Google meet and You-tube videos , WhatsApp	The learner may be encouraged to: —develop the idea of multiples of a number through its multiplication facts, skip counting on a number line and number grid. — develop concept of factors through division of numbers and multiples.	To make sieve of Eratosthenes to find prime and composite numbers	The learner: writes multiples of numbers, common multiples and finds LCM.in the same way finds HCF by finding common factors. recognises and appreciates (through patterns) the broad classification of numbers as even, odd, prime, co-prime, etc.	Yes, Google form test
Odd and even numbers		_classify numbers on the basis of their properties like even, odd,			
Ch-8 Geometry		-Identify various geometrical figures and observe their characteristics — develop earlier understanding of angles and to describe it. — observe angles in their surroundings and compare their measures. For example, whether the angle is smaller, bigger or equal to a corner of a book which is a right angle; further, classify the angles. Draw circles with various lengths of radius, compasses and		- describes geometrical ideas like line, line segment, open and closed figures, angle, triangle, quadrilateral, circle, etc., with the help of examples in surroundings. - demonstrates an understanding of angles by o identifying examples of angles in the surroundings. o classifying angles according to their measure.	

Month –October					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-6 Fractions Types of fractions Addition and subtraction of fractions	Google meet and You-tube videos and WhatsApp	The learner may be encouraged to—to discuss and co-relate fractional numbers like half, one fourth, three fourths. — represent the fractional numbers through activities related to pictures/paper folding. For example – shade half the picture Shaded part of which of the following pictures do not represent one fourth (1/4)	To show fractions by paper folding	The learner: — identifies half, one-fourth, three-fourths in a given picture (by paper folding) and also in a collection of objects. • represents the fractions as half, one-fourth and three-fourths by using symbols $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ resp. respectively. • shows the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ and other fractions. -- _acquires understanding about fractions • finds the number corresponding to part of a collection. • identifies and forms equivalent fractions of a given fraction and also do addition and subtraction of like fractions.	Yes, Google form test

	Month –November				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-9 Decimals	Google met, You-tube videos and WhatsApp	The learner may be encouraged to: →understand the idea of decimal fractions ($1/10^{\text{th}}$ and $1/100^{\text{th}}$) -situations that require the representation by fractions and decimals can be created and presented pictorially.	To represent decimal numbers on a spike abacus.	The learner: • converts fractions into decimals and vice versa. _ writes decimals in ascending and descending order and does addition and subtraction.	Yes, Google form test

	Month –December				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-9 Symmetry and Patterns	Google meet, You-tube videos and WhatsApp	The learner may be encouraged to: → explore symmetry by using paper folding/ paper cutting → explore shapes so that they can find out that some shapes look the same only after one complete rotation/ part of a rotation. _ explore patterns in numbers while doing various operations	Write A to Z and draw the line of symmetry	The learner: identifies 2D shapes from the immediate environment that have rotation and reflection symmetry like alphabet and shapes. _ identifies the pattern in triangular number and square number.	Yes, Google form test
Ch-14 Data handling		collect information and display it in a pictorial form. For example, heights of students from their class and represent it pictorially. → collect and discuss various diagrams/ bar charts from the newspapers/ magazines may be in the class		collects data related to various daily life situations, represents it in tabular form and as bar graphs and interprets it.	

	Month –January				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-10 Measurement	Google meet, You-tube videos and WhatsApp	The learner may be encouraged to—appreciates the need of converting bigger units to smaller units. — discuss experiences on units of capacity printed on water bottle, soft drink pack, etc. Measure volume by counting the number of unit cubes that can fill a given space.	-----	The learner: —. relates different commonly used larger and smaller units of length, weight and volume and converts larger units to smaller units and vice versa. • estimates the volume of a solid body in known units like volume of a bucket is about 20 times that of a mug. • applies the four fundamental arithmetic operations in solving problems involving money, length, mass, capacity.	Yes, Google form test

Month –February					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Ch-11 Perimeter and area	Google meet and You-tube videos, WhatsApp	The learner may be encouraged to: → introduce the concept of perimeter using different rectangular shapes from the classroom like blackboard, table top, books, etc, through the idea of boundary of these shapes. → develop the concept of areas through measurement of region inside a shape by dividing it into square units.	To find the perimeter of your Mathematics book	The learner: --.● finds out the perimeter of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box and also the area by counting the number of squares.	Yes, Google form test
Ch-12 Time		utilise their experiences inside/outside the class having exposure to telling time/ reading clock in hours and minutes. Observe and study the calendar and come up with number of weeks in a month/ in a year. Let children explore the pattern in number of days in each month and how days are associated with dates in a month, etc		● reads clock time in hour and minutes and expresses the time in a.m. and p.m. _calculates time intervals/ duration of familiar daily life events by using forward or backward counting/ addition and subtraction.	Google form test

Tribune Model School
Continuous Learning Plan
Session -2020-21
Class –V
Subject-Mathematics

APRIL					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Place value	What's app	Relating concept of large numbers given in news paper, population, 10 digits of phone numbers etc	*Read and write 7 digit number in Indian as well as International system of Numbers. *Co-relate large numbers in daily life situations *Compare the large numbers *Round off the numbers *Understand and write Roman Numbers	*Writing phone number of parents in Indian as well as International Number system	Test of 20 Marks Through Google form

May					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Chapter 2 The Four Operatio ns	What's app	Sum, difference, product and quotient finding in different real life situations like total money spent, equal sharing.	*Performs four basic arithmetic operations on numbers beyond 1000 by understanding of place value of numbers * Divide a given number by another number using standard algorithms. *Divide a number by 10 ,100... * apply knowledge of basic operations in real life situations	To demonstrate the magic of 1089	Test of 20 Marks Through Google forms

June(June 1-June 15)

Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Multiples and Factors	What's app	*Developing the idea of multiples of a number through its multiplication facts, skip counting on a number line and number grid. *Developing concept of factors through division of numbers and multiples.	*recognises and appreciates (through patterns) the broad classification of numbers as even, odd, prime, composite numbers. *divisibility rules of 2,3,5 and 10 *do prime factorization *find multiples and factors of a number	Finding H.C.F with the help of buttons	-

July 9-July 31

Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Multiples and factors(Continued)	Online Classes/ What's app		*find H.C.F and L.C.M	-	Test of 10 Marks through Google forms
Chapter 6 Symmetry		Appreciating symmetry found in nature e.g Butterfly, Human body, pattern on animals		Drawing Patterns we find in nature	-

AUGUST

Chapter/Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Geometry		*Develop earlier understanding of angles and to describe it. observe angles in their surroundings and compare their measures . *For example, whether the angle is smaller, bigger or equal to a corner of a book which is a right angle; further, classify the angles. *Introduce protractor as a tool for measuring angles and use it to measure and draw angles.	*describes geometrical ideas like line, line segment, open and closed figures, angle, triangle. *classifying angles according to their measure. *draw angles of given measure using protractor.	Drawing objects found in surrounding forming each type of angle.	Mental Maths Test through google forms
Time			conversions of units of time like hours, minutes, seconds, months, years, weeks *use concept of time and calendar in daily life situations *Add and subtract time and date related problems	Students will make a time table their routine like study, play, drawing, art, watching T.V etc and will Find total number hours they spent for study and play	
Data Handling			*Draw tally marks table, read bar graphs, line graphs and pie chart		

October					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Chapter 4 Fractions	Online Classes/ Whats app	Discussing and using contexts/ situations from daily life in activities to develop understanding about fractional part of the group like, how many bananas are there in half a dozen bananas? Compares fractions through various ways like paper folding, shading of diagram etc.	*finds the number corresponding to part of a collection. *identifies and forms equivalent fractions of a given fraction. *adding and subtracting fractions	-	Test of 10 Marks through google forms -

November					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Chapter Decimal	Online Classes/ Whats app	understand the idea of decimal fractions as $\frac{1}{10}$, $\frac{1}{100}$ part Examples of money Rs.Paisa	* *expresses a given fraction in decimal notation and vice versa. For example in using units of length and money- half of Rs. 10 is Rs.5 *converts fractions into decimals and vice versa. *addition and subtraction of decimal number	-	Test of 10 Marks through google forms -

December					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Chapter Measurement	Online Classes/ What's app	Measuring length of different objects using a tape/ metre scale. Appreciates the need of converting bigger units to smaller units. Discussing experiences on units of capacity printed on water bottle, soft drink pack, etc.	*relate different commonly used larger and smaller units of length, weight and capacity and converts larger units to smaller units *addition and subtraction of measurements *estimating measures	-Measure your height using Inch tape in inches then convert it into cm	Test of 10 Marks through Google forms -

January					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Area and Volume	Online Classes/ What's app	Length of Frame of a photo Area needed to grow grass on a ground How much water a bottle can hold? Measure volume by counting the number of unit cubes that can fill a given space	*Concepts of Perimeter, area and volume *find perimeter, area of square and rectangle *find volume of cube and cuboid		Test of 10 Marks through Google forms -

February					
Chapter/ Topic	Mode of teaching	Pedagogical Process	Learning Outcome Learner is able to	Subject Enrichment Activity	Assessment Mode
Chapter 12 Money Revision	Online/ What's app	planning their shopping—to make estimates of money and the balance money one would get. conducts role play of shopkeepers/ buyers in which students create bills.	Understand concept of C.P, S.P, Profit, Loss and making bill	Prepare a bill of your monthly expenditure and find out the balance from your pocket money	Test of Chapter Money

March
Final Exam

CONTINUOUS LEARNING PLAN**SESSION – 2020-21****CLASS – VI****SUBJECT –MATHS**

	Month –April				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Knowing our numbers	Whatsapp, videos explaining the concepts, worksheets	Blended learning, Problem solving approach, integrated learning	Nil	Read and write numbers upto 8 digits using indian and international systems of numeration, Identify place values of digits of large numbers, Round off numbers upto lakhs	Nil
Playing with numbers	Whatsapp, videos explaining the concepts, worksheets	Problem solving approach, Student led learning	Nil	Perform arithmetic operations on numbers, Do calculations involving the operation 'of', Apply rule of BODMAS, Appreciate and recognize patterns in numbers	Google form test
MONTH - MAY HCF and LCM	Whatsapp, videos explaining the concepts, worksheets	Integrated learning, Student led learning, Problem solving approach	Button activity to find HCF	Define prime factorization of numbers and factor trees of prime factorization, Recognize common factors of sets of numbers, Define HCF and LCM, calculate them, use them in real life situations, State the relationship between HCF and LCM of two numbers and use it to solve problems	Nil
Natural numbers and whole numbers (Continued till June)	Whatsapp, video explaining the concepts, worksheets	Problem solving approach, collaborative learning	Nil	Explain the meaning of natural and whole numbers, Explain different properties used on whole numbers, Represent whole numbers on number line	Nil

MONTH - JULY					
Basic geometrical concepts	Google Meet classes with the help of PPT, Videos explaining the concepts, Edmodo	Integrated learning, Student led learning, collaborative approach	Nil	Understanding points, line segments, lines, rays and angles, Measure and compare angles, Define and give examples of polygons, Define and explain quadrilaterals and circles.	Nil
MONTH - AUGUST					
Understanding elementary shapes	Google Meet classes with the help of PPT, Video explaining the concepts, Edmodo	Student led learning, Blended learning, Problem solving approach	Nil	Define and give example of polygons, triangles, quadrilaterals, Define circle and its parts, Classify triangles depending on the sides, State different types of quadrilaterals and their properties	Nil
Introduction to Algebra	Google Meet classes with the help of PPT, Video explaining the concepts, Edmodo	Collaborative learning, Integrated learning	Nil	Define and give examples of variables, constants and Algebraic expressions, Form Algebraic expressions, Define and explain with examples the terms monomial, binomial, trinomial and polynomial.	Nil
MONTH - SEPTEMBER					
Data handling	Google Meet classes with the help of PPT, Videos explaining the concepts, Edmodo	Blended learning, Integrated learning, Student led learning	Nil	Define data and record different types of data, Organise data in the form of charts and frequency of tables, Represent data in the form of bar graphs and pictographs, Read data from bar graphs and pictographs.	Nil

CONTINUOUS LEARNING PLAN**SESSION – 2020-21****CLASS – VII****SUBJECT –MATHS**

	Month –April				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Knowing our numbers	Whatsapp, videos explaining the concepts, worksheets.	Blended learning, Problem solving approach, differentiated learning.	Nil	Revise the concepts of integers and operations of addition and subtraction, Use the operations of multiplication and division on integers, Solve word problems on integers related to daily life solutions.	Nil
Fractions	Whatsapp, videos explaining the concepts, worksheets.	Blended learning, Problem solving approach, differentiated learning.	Activity related to four operations of fractions.	Multiply or divide a fraction by a whole number, fraction, or a mixed fraction and vice-versa, Use the word 'of ' with fraction as an operator, Define the reciprocal or multiplicative inverse of a fraction, Solve simple word problems of fractions related to daily life situation.	Google form test.

MONTH - MAY					
Rational numbers	Whatsapp, videos explaining the concepts, worksheets.	Blended learning, Problem solving approach, differentiated learning.	Nil	Define rational numbers, express them on Number line, do addition, subtraction, multiplication and division of rational numbers, Solve word problems on rational numbers.	Google forms test.
Decimals (Continued till 15 June)	Whatsapp, video explaining the concepts, worksheets	Problem solving approach, integrated learning	Nil	Multiple and divide decimal numbers by both whole and decimal numbers, Convert metric units of measurement from higher to lower and vice-versa, Solve word problems based on decimals	Nil
Month - July					
Simple linear equations	Google Meet classes with the help of PPT, whatsapp, Edmodo	Blended learning, collaborative learning and problem solving approach	Nil	Explain the meaning of equations with examples, Explain meaning of root of an equations, solve Equations by balancing and transposing method.	Google form test

Understanding shapes (Continued till August 5)	GoogleMeet classeswitht hehelpofPPT ,whatsapp,E dmodo	Flipped learning, integrated learning, problem solving approach	Activity based on vertically opposite angles	Define and illustrate different types of angles, Use of properties of angles formed by intersecting and two parallel lines	Nil
Properties of triangles	GoogleMeet classeswitht hehelpofPPT ,whatsapp,E dmodo	Problem solving approach, integrated learning, student led learning	Nil	Verify and prove the angle sum property of triangles, State and verify pythagoras result	Nil
Symmetry	GoogleMeet classeswitht hehelpofPPT ,whatsapp,E dmodo	Integrated learning, blended learning, flipped learning	Activity based on reflection and rotational symmetry	Identify and define reflection symmetry, Define rotaional symmetry, order and angle of rotation, Identify the objects having both reflection as well as rotational symmetry	Nil

CONTINUOUS LEARNING PLAN**SESSION – 2020-21****CLASS – VIII****SUBJECT – MATHEMATICS**

	Month – APRIL				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Rational Numbers	Online	Blended Learning, Student led learning, Collaborative learning, Problem based learning	Mindspark Learning With Fun Application	By the end of this chapter, students will be able to solve the questions: Using the concept of rational numbers. Using the properties of rational numbers. Related to identifying and locating rational numbers on a numberline. Related to finding rational numbers between any two rational numbers. Related to solving word problems based on rational numbers.	Online Assessments will be taken through Google Forms
	Month – MAY				
Exponents or Powers	Online	Blended Learning, Student led learning, Collaborative learning, Problem based learning	Mindspark Learning With Fun Application	By the end of this chapter, students will be able to solve the questions: Using the laws of exponents. Using negative exponents. Using exponents with integral powers.	Online Assessments will be taken through Google Forms
	Month – JULY				
Square And Square Root; Cube And Cube Root	Online	Blended Learning, Student led learning, Collaborative learning, Problem based learning	Mindspark Learning With Fun Application	By the end of this chapter, students will be able to solve the questions: Using the concept of squares and properties of square numbers. Related to squaring numbers by using an alternate method. Using the concept of square roots. Related to finding square roots by the	Online Assessments will be taken through Google Forms

				successive subtraction of odd numbers. Related to finding square roots by the tens and ones method. Related to finding square roots by the prime factorization method. Related to finding square roots by the division method. Related to solving problems of the square root of the product of two numbers and fractional numbers. Using the concept of cube and cube roots. Related to finding cube roots by the prime factorization method.	
Month – AUGUST					
Algebraic Expressions and Factorization	Online	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To factorize a quadratic expression $x^2 + bx + c$ with the help of a cut and paste activity.	By the end of this chapter, students will be able to solve the questions related to: Classifying, adding, and subtracting algebraic expressions. Multiplying algebraic expressions. Dividing algebraic expressions. Using algebraic identities to solve questions. Factorizing algebraic expressions.	Online Assessments will be taken through Google Forms
Linear Equations in One variable	Online	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To form a linear equation using numbers and variables and solve it.	By the end of this chapter, students will be able to solve the questions: Using the rules to solve a linear equation. Related to finding the root of an equation. Related to solving word problems.	Online Assessments will be taken through Google Forms

Data Handling	Online	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To develop and understand the concept of collecting data, making a frequency distributions table and representing the information with the help of a graph.	By the end of this chapter, students will be able to solve the questions: Using the concept of grouped data. Related to constructing histograms. Related to constructing pie charts.	Online Assessments will be taken through Google Forms
Month – SEPTEMBER					
Introduction to Graphs	Online/ Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To review the method of plotting points in a Cartesian plane and to show that ordered points are not reversible.	By the end of this chapter, students will be able to solve the questions: Using the concept of numberplane. Recognizing a Cartesian plane.	Online Assessments will be taken through Google Forms
Month – OCTOBER					
Commercial Mathematics	Online/ Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To understand and develop the concept of inverse variation by an activity.	By the end of this chapter, students will be able to solve the questions: Using the concept of direct variation. Using the concept of inverse variation. Using the concept of profit and loss. Using the concept of discount and taxes.	Online Assessments will be taken through Google Forms
Simple Interest and Compound Interest	Online/ Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To find a formula for future value by using compound interest.	By the end of this chapter, students will be able to solve the questions related to: Finding the simple interest and the compound interest. Deriving the formula for compound interest. Using the concept of inverse problems on compound interest.	Online Assessments will be taken through Google Forms
Month – NOVEMBER					
Quadrilaterals	Online/ Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To understand the angle sum property of a quadrilateral through the cut and paste method.	By the end of this chapter, students will be able to solve the questions: Using the concept of quadrilaterals. Recognizing different	Online Assessments will be taken through Google Forms

				types of quadrilaterals. Using the properties of a parallelogram. Using the properties of a rectangle. Using the properties of a rhombus. Using the properties of a square.	
Month – DECEMBER					
Construction of Quadrilaterals	Online/Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To understand the properties of a square through art and craft integration.	By the end of this chapter, students will be able to solve the questions related to: Constructing a quadrilateral when four sides and one diagonal are given. Constructing a quadrilateral when three sides and two diagonals are given. Constructing a quadrilateral when three sides and two included angles are given. Constructing a quadrilateral when two adjacent sides and three angles are given. Constructing special types of quadrilaterals.	Online Assessments will be taken through Google Forms
Month – JANUARY					
Area of Polygons	Online/Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To show that the area of a rhombus is equal to half the product of its diagonals.	By the end of this chapter, students will be able to solve the questions related to: Finding the area of a quadrilateral. Finding the area of a rhombus. Finding the area of a trapezium. Finding the area of a polygon.	Online Assessments will be taken through Google Forms
Month – FEBRUARY					
Volume and Surface Area	Online/Offline	Blended Learning, Student led learning, Collaborative learning, Problem based learning	To understand the concept of total surface area and volume of a cuboid through art & craft integration.	By the end of this chapter, students will be able to solve the questions: Using the concept of volume of a cuboid	Online Assessments will be taken through Google Forms

				and a cube. Using the concept of volume of a right circular cylinder. Using the concept of surface area of a cuboid and a cube. Using the concept of lateral surface area of a cuboid and a cube. Using the concept of curved surface area of a right circular cylinder. Using the concept of total surface area of a right circular cylinder.	
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CONTINUOUS LEARNING PLAN**SESSION – 2020-21****CLASS – IX****SUBJECT – MATHEMATICS**

Month – April and May					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Number System	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity	Construction the square root spiral	1. Concept of number family. 2. Real number and their decimal expansion. 3. Representing real numbers on number line. 4. Operation on real numbers. 5. Laws of exponents for real numbers.	Online class test was taken.

Month – May and June					
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Polynomials	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. polynomials in one variable 2. zeroes of a polynomial. 3. Remainder theorem. 4. Factorisation of polynomials. 5. Algebraic identities	Online class test was taken.

	Month – August				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Probability	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Probability an Experimental Approach.	
Statistics				1. mean, mode, median. 2. Frequency Distribution. 3. Histogram.	

	Month – August and September				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Lines and Angles	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity	Angle sum property of triangles	1. Basic terms and definition. 2. Intersecting and non intersecting lines. 3. Pairs of angles. 4. Parallel lines and transversal. 5. Angle sum property of triangles	

	Month – September				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Triangles	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Congruence of triangles. 2. Criteria for congruence of triangles. 3. Some properties of triangles	

	Month – October				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Construction	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Basic construction. 2. Some construction of triangles	
Circles				1. Basic terms. 2. angle subtended by chord. 3. cyclic quadrilateral	

	Month – October and November				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Circles	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Continued.	
Quadrilaterals				1. Types of quadrilaterals. 2. Angles sum property of triangles. 3. Properties of parallelogram.	

	Month – December				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Construction	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Basic construction.	
Area of parallelogram and triangles				2. Some construction of triangles 1. Figures on same base and between same parallels. 2. Parallelogram on same base and between same parallels. 3. Triangles on same base and between same parallels.	

	Month – January				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Surface area and volume	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Surface area of cuboids and cube. 2. Surface area of a cylinder. 3. Surface area of a cone. 4. Surface area of a sphere. 5. Volume of cuboid and cube. 6. Volume of cone, sphere, cylinder and sphere.	

	Month –February				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Revision	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity	Revision	Revision	

CONTINUOUS LEARNING PLAN**SESSION – 2020-21****CLASS – X****SUBJECT – MATHEMATICS**

	Month – March and April				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Real numbers	Offline/Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Euclid's division lemma. 2. The fundamental theorem of arithmetic. 3. Revisiting Irrational numbers. 4. Revisiting rational numbers and decimal expansion.	Online class test was taken.

	Month – April				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Polynomials	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Geometrical meaning of the zeroes of the polynomials. 2. Relationship between zeroes and coefficient of a polynomial. 3. Division algorithm.	Online class test was taken.
Probability				1. Probability a theoretical approach	

	Month – May				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Surface area and volume	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Surface area of cuboids and cube. 2. Surface area of a cylinder. 3. Surface area of a cone. 4. Surface area of a sphere. 5. Volume of cuboids and cube. 6. Volume of cone, sphere, cylinder and sphere.	Online class test was taken.

	Month – June				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Surface area and volume	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		5. Volume of cuboids and cube. 6. Volume of cone, sphere, cylinder and sphere.	Online class test was taken

	Month – JULY				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Pair of linear equations in two variables	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Pair of linear equation in two variables. 2. Graphical and Algebraic method a. Substitution method b. Elimination method.	Online class test was taken

	Month – August				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Quadratic Equation	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Quadratic Equation. 2. Solution of Quadratic Equation. 3. Nature of roots .	Online class test was taken
Arithmetic Progression				1. Arithmetic Progression. 2. nth term of A.P 3. Sum of nth term	

	Month – September				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Triangles	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Triangles. 2. Similarity of triangles. 3. Area of similar Triangles. 4. Pythagoras Theorem	

	Month – October				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Construction	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Basic construction. 2. construction of triangles to a circles	
Circles				1. Basic terms. 2. Tangent to a circle.	

	Month – October and November				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Area Related to Circles	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1. Perimeter and area of circles. 2. Area of sector and segment.	
Statistics				1. Mean , mode and median 2. O give	

	Month – December				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Coordinate Geometry	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity	1. Distance formula. 2. Section formula.		
Introduction of trigonometry			1 Trigonometric ratios. 2. Trigonometric identities.		

	Month – January				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Application of trigonometry	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity		1.Heights and distance	
Revision					

	Month –February				
Topics taught	Mode of Teaching	Pedagogical process	Subject Enrichment Activity	Learning Outcomes	Assessment Taken
Revision	Online	Provides frequent opportunity for students to interact with each other and the teacher during instructional activity	Revision	Revision	