BIRLA PUBLIC SCHOOL, PILANI (RAJ)SYLLABUS TRANSACTION (2021-22): CLASS IX: SUB: MATHEMATICS <u>TERM-I</u>

Months	PERIODS	Lessons/Topics covered	Learning Objectives Students will be able to :	SUGGESTED ACTIVITIES	ASSESSMENTS	EXPECTED LEARNING OUTCOMES Students are able to :
April 2021	17	NUMBER SYSTEMS Real Numbers	 Students will be able to represent natural numbers, integers, rational numbers on the number line. Students will be able to represent terminating / non-terminating recurring decimals on the number line through successive magnification. Students will be able to represent Rational numbers as recurring/ terminating decimals. Students will be able to solve problems on operations on real numbers. Students will be able to raise examples of non- recurring/non-terminating decimals. Students will be able to explain existence of non-rational numbers (irrational numbers) such as √3, and their representation on the number line. Students will be able to explain that every real number is represented by a unique point on the number line and conversely, viz. every point on the number line Students will be able to define nth root of a real number. Students will be able to solve problems related with rationalization (with precise meaning) of real numbers of the type and 	LAB ACTIVITY 1.To represent irrational numbers on the number line. 2.To represent square root spiral on the number line. 3.To represent √9.3 on number line by geometric method	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to represent natural numbers, integers, rational numbers on the number line. Students are able to represent terminating / non-terminating recurring decimals on the number line through successive magnification. Students are able to represent rational numbers as recurring/terminating decimals. Students are able to solve problems on operations on real numbers. Students are able to raise examples of non- recurring/non-terminating decimals. Students are able to explain existence of non-rational numbers (irrational numbers) such as √3 and their representation on the number line. Students are able to explain that every real number is represented by a unique point on the number line and conversely, viz. every point on the number line and mumber. Students are able to define nth root of a real number. Students are able to solve problems

			(and their combinations) $1/a + b\sqrt{x}$ and $1/\sqrt{a} + \sqrt{b}$ where x and y are natural Number and a and b are integers.			related with rationalization (with precise meaning) of real numbers of the type and (and their combinations) $1/a + b\sqrt{x}$ and $1/\sqrt{a} + \sqrt{b}$ where x and y are
			10. Students will be able to recall the laws of exponents with integral powers. Rational exponents with positive real bases and will be able to solve related Problems.			natural number and a and are integers. 10. Students are able to recall of laws of Exponents with integral powers. Rational exponents with positive real bases and are able to solve related Problems.
						RSC : KNOWLEDGE BASED PROBLEM SOLVINF SKILLS DEVELOPMENT .
July 2021	23	ALGEBRA Polynomials	 1.Students will be able to Define polynomial in one variable, with examples and counter examples. 2.Students will be able to find Coefficients of a polynomial, terms of a polynomial and zero polynomial. 3.Students will be able to distinguish and calculate degree of a polynomial, Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. 4.Students will be able to find factors and multiples. and zeros of a polynomial. 5.Students will be able to state and prove Remainder Theorem and factor theorem with examples 6.Students will be able to. factorise polynomials in the form ax2+ bx + c, a ≠ 0 where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. 7. Students will be able to recall of algebraic expressions and identities. 8. Students will be able to Verify the identities and their use in factorization of polynomials as given below. (x + y + z)² = x² + y² + z² + 2xy + 2yz + 2zx (x + y)³ = x³ + y³ + 3 x y(x + y) 	LAB ACTIVITY 1. To verify the identity $a^3 - b^3 = (a - b) (a^2 + ab + b^2)$, for simple cases using a set of unit cubes. 2. To verify the identity $a^3 + b^3 = (a + b) (a^2 - ab + b^2)$, for simple cases using a set of unit cubes. 3. To verify the identity $(a + b)^3 = a^3 + b^3 + 3ab (a + b)$, for simple cases using a set of unit cubes. 4. To verify the identity $(a - b)^3 = a^3 - b^3 - 3ab (a - b)$, for simple cases using a set of unit cubes.	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets CLASS TEST	 1.Students are able to Define polynomial in one variable, with examples and counter examples. 2.Students are able to find Coefficients of a polynomial, terms of a polynomial and zero polynomial. 3.Students are able to distinguish and calculate degree of a polynomial, Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. 4.Students are able to find factors and multiples. and zeros of a polynomial. 5.Students are able to state and prove Remainder Theorem and factor theorem with examples 6.Students are able to. factorise polynomials in the form ax²+ bx + c, a ≠ 0 where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. 7. Students are able to recall of algebraic expressions and identities. 8. Students are able to Verify the identities and their use in factorization

			$(x - y)^{3} = x^{3} - y^{3} - 3 x y(x - y)$ $x^{3} + y^{3} = (x + y)(x^{2} + y^{2} - xy)$ $x^{3} - y^{3} = (x - y)(x^{2} + y^{2} + xy)$ $x^{3} + y^{3} + z^{3} - 3xyz =$ $(x + y + z)(x^{2} + y^{2} + z^{2} - xy - yz - zx)$			of polynomials as given below. $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$ $(x + y)^3 = x^3 + y^3 + 3x y(x + y)$ $(x - y)^3 = x^3 - y^3 - 3x y(x - y)$ $x^3 + y^3 = (x + y)(x^2 + y^2 - xy)$ $x^3 + y^3 = (x - y)(x^2 + y^2 + xy)$ $x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$ RSC : APPLICATION BASED PROBLEM SOLVINF SKILLS DEVELOPMENT .
July 2021	09	COORDINATE GEOMETRY Coordinate Geometry	 Students will be able to identify Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane and notions. Students will be able to plot points in the cartesian plane. 	LAB ACTIVITY 1 . To obtain mirror images of figures with respect to a given line on a graph paper.	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to identify Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane and notions. Students are able to plot points in the cartesian plane.
Aug 2020	14	ALGEBRA Linear Eq ⁿ in two variables	 Students will be able to recall of linear equations in one variable. Students will be able to identify equation in two variables. Students will be able to solve linear equations of the type ax + by + c=0. Students will be able to explain that a linear equation in two variables has infinitely many solutions and will be able to justify their being written as ordered pairs of real numbers, and plotting them and showing that they lie on a line. Students will be able to draw graph of linear equations in two variables. Students will be able to raise Examples, problems from real life and will be able to solve problems on Ratio and Proportion (with algebraic and graphical solutions 	LAB ACTIVITY To interpret geometrically the factors of a quadratic expression of the type ax ² + bx + c, using square grids, strips and paper slips.	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets CLASS TEST PRE-MID TERM 29 th July-10 th August	 Students are able to recall of linear equations in one variable. Students are able to identify equation in two variables. Students are able to solve linear equations of the type ax + by + c=0. Students are able to explain that a linear equation in two variables has infinitely many solutions and will be able to justify their being written as ordered pairs of real numbers, and plotting them and showing that they lie on a line. Students are able to draw graph of linear equations in two variables. Students are able to raise Examples,

Aug 2021		GEOMETRY Introduction to Euclid	 Students will be able to recall History – Geometry in India and Euclid's geometry. Students will be able to recall Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. Students will be able to solve problems based on the five postulates of Euclid. Students will be able to explain equivalent 	LAB ACTIVITY 1. To make nets for a right triangular prism and a right triangular pyramid (regular tetrahedron) and obtain the formula for the total surface area.	CLASS QUIZ Questions from N.C.E.R.T/	 RSC : PROBLEM SOLVINF SKILLS DEVELOPMENT THROUGH CREATIVITY. BASED ON ART INTEGRATION 1.Students are able to recall History – Geometry in India and Euclid's geometry. 2.Students are able to recall Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. 3.Students are able to solve problems based on the five postulates of Euclid. 4.Students are able to explain equivalent versions of the fifth postulate. 5.Students are able to explain with source and the optimization of the fifth postulate.
	06	Geometry	 versions of the fifth postulate. 5.Students will be able to explain with examples the relationship between axiom and theorem, for example:(Axiom) 1. Given two distinct points, there exists one and only one line through them.(Theorem) 6.Students will be able to prove Two distinct lines cannot have more than one point in common. 	2. To verify Euler's formula for different polyhedron : prism, pyramids and octahedron.	Extra marks Worksheets	examples the relationship between axiom and theorem, for example:(Axiom) 1. Given two distinct points, there exists one and only one line through them.(Theorem) 6.Students are able to prove Two distinct lines cannot have more than one point in common. ACTIVITES BASED ON ART INTEGRATION AND PROJECT BASED LEARNING

				1		
Sept. 2021	13	GEOMETRY Lines and Angles	 Students will be able to prove, If a ray stands on a line, then the sum of the two adjacent angles so formed is 180°and the converse. Students will be able to Prove, If two lines intersect, vertically opposite angles are equal. Students will be able to solve problems on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines. Students will be able to prove that lines which are parallel to a given line are parallel. Students will be able to prove that the sum of the angles of a triangle is 180°. Students will be able to prove that, if a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interior opposite angles. Students will be able to solve problems based on above properties of line and angles including application of related theorems. 	 LAB ACTIVITY 1. To verify sum of all interior angles of a triangle is 180°. 2. To verify the existence of parallel lines by paper folding activity related with corresponding angles, alternate interior angles and co- interior angles. 	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to prove, If a ray stands on a line, then the sum of the two adjacent angles so formed is 180⁰ and the converse. Students are able to Prove, If two lines intersect, vertically opposite angles are equal. Students are able to solve problems on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines. Students are able to prove that lines which are parallel to a given line are parallel. Students are able to prove that the sum of the angles of a triangle is 180⁰. Students are able to prove that, if a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interior opposite angles T. Students are able to solve problems based on above properties of line and angles including application of related theorems. ACITIVITES BASED ON BASED ON ART INTEGRATION
Sept. 2021 Oct. 2021	20	GEOMETRY Triangles	 Students will be able to prove, Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence). Students will be able to prove that two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence). Students will be able to prove two triangles are congruent if the three sides of one triangle are equal to three sides of the other 	LAB ACTIVITY 1. To illustrate that the perpendicular bisectors of the sides of a triangle concur at a point (called the circum centre) and that it falls a. inside for an acute- angled triangle. b. on the hypotenuse of a right-angled triangle. c. outside for an obtuse- angled triangle.	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets CLASS TEST	 Students are able to prove, Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence). Students are able to prove that two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence). Students are able to prove two triangles

trian	ngle (SSS Congruence).	2 To illustrate that the	ar	e congruent if the three sides of one
4. Stu	tudents will be able to prove two right	internal bisectors of	tri	angle are equal to three sides of the
trian	ngles are congruent if the hypotenuse and	angles of a triangle concur	ot	her triangle (SSS Congruence).
a sid	de of one triangle are equal (respectively)	ata	4.	Students are able to prove two right
to the	he hypotenuse and a side of the other	point (called the in	tri	angles are congruent if the hypotenuse
trian	ngle. (RHS Congruence)	centre), which always lies	an	id a side of one triangle are equal
5.5t	tudents will be able to prove the angles	inside the triangle	(16	espectively) to the hypotenuse and a side
0,000	osite to equal sides of a triangle are	3 To illustrate that the	of	the other triangle (PHS Congruence)
oppo	al	altitudes of a triangle	5	Students are able to prove the angles
6 St	ai. tudents will be able to prove the sides	concur at a point (called	5.	providents are able to prove the angles
0.50	acita to equal angles of a triangle are	the	υμ	posite to equal sides of a triangle are
oppo	oshe to equal angles of a triangle are	Orth a control on d that it	eq	luai. Studente en chiete masse the sides
equa		Ortho centre) and that it	0.	Students are able to prove the sides
/. Sti	tudents will be able to prove triangle	falls.	op	posite to equal angles of a triangle are
inequ	qualities and relation between 'angle and	4.to verify that sum of any	eq	lual.
facin	ng side' inequalities in triangles.	two sides of a triangle is	7.	Students are able to prove triangle
8.Stu	tudents will be able to solve the problems	always greater than	in	equalities and relation between 'angle
of tri	riangle congruency and general	the third side.	an	d facing side' inequalities in triangles.
prope	perties.	To verify that sum of any	8.	Students are able to solve the problems
		two sides of a triangle is	of	triangle congruency and general
		always greater than	pr	operties.
		the third side.		
		5. To verify that the	<u>A</u>	<u>CTIVITIES BASED ON</u>
		difference of any two		
		sides of a triangle is	R	SC : ENVIRONMENT AWARENESS
		always less	Т	HROUGH STUDY OF DIFFERENT
		than the third side.	G	
			U	
		6. To verify that the	10	O- DAY LIFE SITUATIONS.
		difference of any two		
		sides of a triangle is	B	ASED ON ART INTEGRATION
		always less		
		than the third side		
		7 To explore criteria of		
		congruoney of triangles		
		using a set of triangle out		
		using a set of thangle cut		
		outs.		
		(a) inside for an exite		
		(a). Inside for an acute		
		angled triangle.		
		(b). at the right angle		
		vertex for a right angled		
		triangle.		
		(c). outside for an obtuse		
		angled triangle.		
		8. To illustrate that the		
		medians of a triangle		
		concur at a point (called		
		the		
		centroid), which always		

				lies inside the triangle.		
Oct 2021		GEOMETRY	 Students will be able to prove the diagonal divides a parallelogram into two congruent triangles. Students will be able to prove in a parallelogram opposite sides are equal, and Conversely. Students will be able to prove in a parallelogram opposite angles are equal, And conversely. Students will be able to prove that a quadrilateral is a parallelogram if a pair of 	 lies inside the triangle. LAB ACTIVITY 1. To verify the mid point theorem for a triangle, using paper cutting and pasting. 2. To explore the similarities and differences in the properties with respect to diagonals of the following quadrilaterals – a parallelogram, a square, a Rectangle and a rhombus. 3. To explore the 	CLASS QUIZ Questions from	 Students are able to prove the diagonal divides a parallelogram into two congruent triangles. Students are able to prove in a parallelogram opposite sides are equal, and conversely. Students are able to prove in a parallelogram opposite angles are equal, and conversely. Students are able to prove that a quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. Students are able to prove in a parallelogram, the diagonals bisect each
Oct. 2021	10	GEOMETRY Quadrilaterals	 quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. 5. Students will be able to prove in a parallelogram, the diagonals bisect each other and conversely. 6. Students will be able to prove in a triangle, the line segment joining the mid points of any two sides is parallel to the third side and in half of it and its converse. 7. Students will be able to solve different problems based on the properties of Quadrilaterals and midpoint theorem. 	 3. To explore the similarities and differences in the properties with respect to diagonals of the following quadrilaterals – a parallelogram, a square, a Rectangle and a rhombus. 4. To show that the figure obtained by joining the mid points of the consecutive sides of any quadrilateral is a parallelogram 	N.C.E.R.T/ Extra marks Worksheets	 ACTIVITES BASED ON ART INTEGRATION AND PROJECT BASED LEARNING based to converse

	I - TERM		
	EXAM		

TERM- II

MONTH	PERIODS	Lessons/Topics covered	Learning Objectives Students will be able to :	SUGGESTED ACTIVITIES	ASSESSMENTS	EXPECTED LEARNING OUTCOMES Students are able to :
Nov . 2021	07	GEOMETRY Area of Parallelogram and Triangles	 Students will be able to recall the concept of area and area of a rectangle. Students will be able to Prove Parallelograms on the same base and between the same parallels have equal area. Students will be able to prove triangles on the same base (or equal bases) and between the same parallels are equal in area. Students will be able to solve different questions based on area of parallelogram and triangles on the same base and between same parallels. 	LAB ACTIVITY To carry out the following activities using a geo board: 1. Find the area of any triangle. 2. Find the area of any polygon by completing the rectangles. 3. Obtain a square on a given line segment. 4. Given an area, obtain different polygons of the same area. 2. To obtain a parallelogram by paper–folding. 3. To show that the area of a parallelogram is product of its base and height, using paper cutting and pasting. (Ordinary parallelogram) 4. To show that the area of a triangle is half the product of its base and height using paper cutting and pasting. (Acute, right and obtuse angled triangles) 5. To show that the area of a rhombus is half the product of its diagonals using paper cutting and	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to recall the concept of area and area of a rectangle. Students are able to Prove Parallelograms on the same base and between the same parallels have equal area. Students are able to prove triangles on the same base (or equal bases) and between the same parallels are equal in area. Students are able to solve different questions based on area of parallelogram and triangles on the same base and between same parallels. RSC : APPLICATION BASED PROBLEM SOLVINF SKILLS DEVELOPMENT . AND ART INTEGRATION

				 pasting. 6. To show that the area of a trapezium is equal to half the product of its altitude and the sum of its parallel sides and its height, using paper cutting and pasting. 		
Nov.2021	15	GEOMETRY Circles	 Students will be able to, define circle and related concepts-radius, circumference, diameter, chord, arc, secant, sector, segment, subtended angle through raising examples. Students will be able to prove, equal chords of a circle subtend equal angles at the center and its converse. Students will be able to prove, the perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord. Students will be able to prove, There is one and only one circle passing through three given non-collinear points. Students will be able to prove, equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely. Students will be able to prove, the angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle. Students will be able to prove, Angles in the same segment of a circle are equal. Students will be able to prove, If a Line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle. Students will be able to prove, the sum of either of the pair of the 	LAB ACTIVITY1. To give a suggestive demonstration of the formula that the area of a circle is half the product of its circumference and radius. (Using formula for the area of triangle)	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to, define circle and related concepts-radius, circumference, diameter, chord, arc, secant, sector, segment, subtended angle through raising examples. Students are able to prove, equal chords of a circle subtend equal angles at the center and its converse. Students are able to prove, the perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord. Students are able to prove, There is one and only one circle passing through three given non-collinear points. Students are able to prove, equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely. Students are able to prove, the angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle. Students are able to prove, Angles in the same segment of a circle are equal. Students are able to prove, for a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle. Students are able to prove, the sum of either of the pair of the opposite angles of a cyclic quadrilateral is 180° and its converse. Students are able to solve problems based on the above mentioned theorems of circle.

			 opposite angles of a cyclic quadrilateral is 180° and its converse. 10. Students will be able to solve problems based on the above mentioned theorems of circle. 			COLLOBORATIVE LEARNING THROUGH ACTIVITIES. AND ART INTEGRATION
Dec. 2021	10	GEOMETRY Constructions	 Students will be able to construct bisectors of line segments and angles of measure 60⁰, 90⁰, 45⁰etc. and equilateral triangles. Students will be able to construct a triangle, given its base sum/difference of the other two sides and one base angle. Students will be able to construct a triangle of given perimeter and base angles. 	LAB ACTIVITY BY PAPER FOLDING TO FIND 1.The mid point of a line segment, 2. The perpendicular bisector of a line segment, 3. the bisector of an angle, 4. The perpendicular to a line from a point given outside it, 5. The perpendicular to a line at a point given on the line, 6. The median of a triangle.	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to construct bisectors of line segments and angles of measure 60°, 90°, 45° etc. and equilateral triangles. Students are able to construct a triangle, given its base, sum/difference of the other two sides and one base angle. Students are able to construct a triangle of given perimeter and base angles RSC : COMMUNICATION SKILLS DEVELOPMENT AND THINKING SKILLS ENHANCEMENT THROUGH ACTIVITIES. AND ART INTEGRATION
Jan. 2022	04	MENSURATION Heron's Formula	 Students will be able to solve the problems related with finding area of a triangle using Heron's formula (without proof) and its application in finding the area of a quadrilateral. 		CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets CLASS TEST	 Students are able to solve the problems related with finding area of a triangle using Heron's formula (without proof) and its application in finding the area of a quadrilateral. ACTIVITIES BASED ON ART INTEGRATION
Jan 2022	12	MENSURATION Surface areas & volumes	1. Students will be able to solve problems of finding surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders and cones.	LAB ACTIVITY 1. To explain surface areas of cube and cuboids through paper folding activity. 2. To verify volume of cone is 1/3 of volume of cylinder through paper folding/model making.		 Students are able to solve problems of finding surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders and cones. RSC : COMMUNICATION SKILLS DEVELOPMENT THROUGH DEMONSTRATION. ACTIVITIES BASED ON ART INTEGRATION

Feb. 2022	13	STATISTICS	 Students will be able to solve problems of collecting, representing of data through tabular form, ungrouped / grouped, bar graphs, histograms (with varying base lengths), frequency polygons. Students will be able to solve problems related with measure of central tendency through Mean, median and mode of ungrouped data. 	PROJECT Representation of data and analysis through Bar graph, Histogram and frequency polygon through data collected in real life situations.	CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to solve problems of collecting, representing of data through tabular form, ungrouped / grouped, bar graphs, histograms (with varying base lengths), frequency polygons. Students are able to solve problems related with measure of central tendency through Mean, median and mode of ungrouped data. RSC : TEAM WORK, LEADERSHIP AND COMMUNICATION SKILLS DEVELOPMENT THROUGH THE PROJECT. ACTIVIES BASED ON PROJECT BASED LEARNING.
Feb. 2022	9	PROBABILITY	 Students will be able to recall and raise examples related with History, repeated experiments and observed frequency approach to probability. Students will be able to solve problems based on empirical probability. Students will be able to solve problems of empirical probability based on real -life situations, and from examples used in the chapter on statistics). 		CLASS QUIZ Questions from N.C.E.R.T/ Extra marks Worksheets	 Students are able to recall and raise examples related with History, repeated experiments and observed frequency approach to probability. Students are able to solve problems based on empirical probability. Students are able to solve problems of empirical probability based on real -life situations, and from examples used in the chapter on statistics). RSC : PROBLEM SOLVING SKILLS DEVELOPMENT THROUGH REAL LIFE SITUATIONS.
			II - TERM EXAM			

CHEMISTRY

MONTH	TOPIC	LEARNING OBJECTIVE	LEARNING OUTCOME	Suggested	Round	PBL	ASSESSMENT
		Obulentil		Activities	Square	Theme	
				IOF AFL Integration	Pillars		
АРRIL ТО 10 TH МАҮ 4 TH JULY 29 TH –JULY 10 TH AUG	Chapter 1: Matter in our Surroundings Matter Characteristics States of matter forces of attraction and space between particles of matter Interconversion of the states of matter K=C+273 Latent Heat Factors affecting the rate of Evaporation Discussion of NCERT exercise. *Deleted portion by CBSE for the session-2021-22 has been	The students will be able to- □ Describe matter and the characteristics of the particles of matter. □ Understand the differences between the various states of matter. □ Evaluate the conditions for the interconversion of various states of matter. □ Explain latent heat of fusion and latent heat of vaporisation. □ Discuss Evaporation and explain various factors influencing evaporation.	The students would be able to- □ Define matter with examples from day today life and state the composition of matter. □ Analyse the characteristics of the particles of matter applicable in day today life activities. □ Reason out the differences between the various states of matter on the basis of rigidity, fluidity, compressibility, density, i.e., shape, density, diffusion etc. □ Explain terms related -melting, freezing, boiling, condensation and sublimation.	To determine the melting point of ice and boiling point of water	Environment	PBL: - Impact of Covid on socio- Economic culture of society.	→ NCERT intext questions, exercise and concept based extra questions. ③ Online assessment by quiz or worksheet and off line assessment by writing based notebook work.
AUGUST	marked with red ink Syllabus for Term:- Ist As per CBSE Guideline Term I st (05 July to November2021) Chapter – 2: Is Matter Around Us	The students will be able to- • Describe and differentiate between elements, compounds and mixtures with examples. • Discuss homogeneous and heterogeneous mixtures with examples. • Explain physical and	The students would be able to- • Classify substances as pure (element, compound) and impure (mixture) substances. • Analyse the differences in the properties of elements, compounds and mixtures.	☐ To separate the components of a mixture of ammonium chloride, common salt and sand by sublimation. ☐ To the study			 □ NCERT intext questions, exercise and concept based extra questions. □ Online assessment by quiz or worksheet and off line assessment by writing based
SEPT	 Pure? Elements and Compounds as pure substances. Mixtures and pure substances. Mixtures -homogeneous and heterogeneous. Classification of Elements -metals, nonmetals and metalloids. 	 Explain physical and chemical changes with examples. Describe the different types of solutions and their properties understand the properties of True solution The students will be able to- calculate the solubility and concentration of the 	 classify elements as metals, non- metals and metalloids based on their general physical properties. Classify mixtures as homogeneous and heterogeneous mixtures with examples from daily lives. analyse the differences in physical and chemical changes and apply their knowledge and understanding in daily 	of the properties of mixture (iron fillings and sulphur powder) and compound (iron sulphide) on the basis of their behaviour			notebook work. 1 st Periodic test (09Aug-19 Aug2021)

		solution.		towards magnet,		
	\square Physical and chemical changes	• evaluate the dependence	lives.	behaviour		
		of solubility on temperature	• analyse the characteristics of	towards carbon		
10 [™] ОСТ-		and pressure.	true solution and various types of	disulphide.		2 nd Periodic
23 RD OCT	□ Mixtures as solutions or true solutions.	• Describe the properties of	true solution	effect of heat		tost
		suspensions and colloids	• The students would be able to-	and reaction		
	• Solubility of a substance (Temperature	• Comprehend the	Classify solutions as true	with dil		(09/10/21 to
	and Pressure dependence)	difference between true	solution, suspension and colloid	HCl (ag)		20/10/2021)
	 Saturated and unsaturated solution 	solution, suspension and	on the basis of properties shown	Preparation of:		
ост	 Concentration of solution. 	colloids on the basis of their	by them-transparency, and	a) a true		
001	Numericals on solubility and	properties	filtration.	solution of		
	concentration of solution	properates	• categorise solutions as true	common salt.		□ NCERT intext
	Suspension	The students will be able to-	solution, suspension and colloid	sugar and		questions, exercise
		□ Differentiate between	with examples from daily lives	album) a		and concept based
	• Colloids	various separations	with understanding.	suspension of		extra questions.
	• Various types of colloids.	techniques and analyse	• explain Tyndall effect with	soil, chalk		Online assessment
	 Discussion of NCERT back exercise. 	them on the basis of	examples from day today life.	powder and fine		by quiz or
	Separating the components of	principle involved and their	• apply their knowledge and	sand in water) a		worksheet and off
NOV	☐ Mixtures- (technique used, principle	applications.	understanding of solubility and	colloidal		line assessment by
	involved and applications)	\square Appreciate the role of	concentration of a solution in	solution of		writing based
	\square Filtration using simple funnel and	various techniques in the	numericals	starch in water		writing based
	separating funnel	separation of the	The students would be able to-	and egg		HOLEDOOK WOLK
	\Box Sublimation	components of mixture.	Apply their knowledge and	albumin/milk in		
		r · · · ·	understanding of principle	water and		
		It will enable the students	involved in each technique in day	distinction		
		to:	today life activities.	between these		
	Centrifugation	□ Recall and remember all	\Box Compare and analyze the	on the basis of		
	Chromatography	the concepts	parameters of technique to be	transparency,		
	\Box Distillation	☐ Know and correct the	applied in various situations.	filtration,		
	□ Fractional Distillation	mistakes done in the answer	(evaporation/crystallisation) or	criterion,		
		sheets of Half Yearly	(distillation/fractional distillation)	stability		
	Chapter 3: Atoms and	examination.	or (filtration/centrifugation)	2		
	Molecules		□ Appreciate the role of each			
	Introduction of the Laws of Chamical	□ State the laws of	technique and its applicability in	To prepare a		Torme Laton
	Introduction of the Laws of Chemical	chemical combination	large scenario.	true solution,		<u>Term Ist as</u>
		Describe the laws of	The students would be able to-	suspension and		<u>per CBSE</u>
	Law of conservation of mass.	chemical combination.	□ State the laws of chemical	colloid and		<u>Guideline</u>
	Law of constant proportion.	□ Evaluate Dalton's atomic	combination.	differentiate		(Nov- Dec2021)
	Dalton's Atomic Theory and its	theory with the present	\Box State both the laws of chemical	them on the		·
	postulates.	situation.	combination with examples.	basis of		
	Relevant NCERT exercise	□ Understand atoms,	□ Analyse the importance and	transparency,		
	□ Atoms and molecules.	molecules and atomicity	interdependence of both the laws	stability		
	□ Atomicity		of chemical combination on each	and filtration		
	\square Atomic mass.		other.	criteria.		
			□ relate the postulates of Dalton's			
			atomic theory with the laws of			
			chemical combination and			
			\Box Give explanation to the			
	Note: <u>*Deleted portion by</u>		postulates of dalton's atomic			
	CBSE for the session-2021-22		theory which are being			
	has heen menhod		challenged now.			
	nas been marked with red ink		☐ Differentiate between an atom			
	PBL: - Impact of Covid		and a molecule.			
			\Box Write atomicity for similar and			
			dissimilar elements.			

		1					
	on socio-Economic						
DEC	culture of society						
	culture of society.			Project and	Environment	PBL: -	
				presentation on		Impact of	
				atomic models		Covid on	
						socio-	
	m mand (m					Economic	
	Term II nd (Dec. to					culture of	
	March2022)	The students will be able to				society.	
	Syllabus for Term: - Und	\Box Discuss various ions and	atomic mass and give reason for				
	CDCE Containe	using them for writing	the use of c-12 as standard for				NCERT intext
	as per CBSE Guideline	chemical formula.	atomic mass.				questions, exercise
		Calculate Molecular	\square Recall the atomic masses of				and concept based
	Chapter 3: Atoms and	\square Understand the	with their symbols				Online assessment
	Molecules	significance of mole in	\Box Comprehend the constituting				by quiz or
	Atomic mass unit / unified mass	terms of mass and number	elements in a compound and their				worksheet and off
	□ Numericals	of particles	combination on the basis of their				line assessment by
	(a) Ratio by mass of atoms and by		mass ratios. The students would be able to				writing based
	(b)Percentage composition of the		\square Differentiate between an atom				notebook work
	compound by weight		and an ion.				
	Numerical (Practice work)		□ Define and write examples of				
		Understand the	cations, anions and polyatomic				
	□ Writing chemical formulae	significance of mole in terms of mass and number	1008.				
	□ Molecular mass	of particles.	in writing chemical formulae.				
	Formula unit mass	\Box Comprehend the	\Box Calculate the molecular mass				
	□ Molar mass	existence of various sub	and molar mass.				3 rd Periodic
	☐ Molar mass	atomic particles. \Box Explain Themson's and	Analyse the role of unified				test-(17Jan- 28
	Introduction to Mole concept	Rutherford's model of an	mass and gram molecular/atomic mass.				ian2022)
5 [™] DEC- 16 [™] DEC	(relationship of more and mass of a substance)	atom.	□ Define the term mole and				J /
10 010	□ Numericals on mole concept	□ Explain Bohr's model of	explain it's significance in daily				NCERT intext
	(relationship of mole and number of	an atom	life situations. \Box apply the concert of mole in	Project and			questions, exercise
21 ³¹ DEC- 13 TH JAN	particles	distribution of various	\square apply the concept of mole in terms of mass and number of	Laws of			extra questions
-5 5714	□ Numericals on mole concept	electrons in shells	particles	Chemical			□ Online
	(relationship	\Box Comprehend the concept	\Box The students would be able to-	combination			assessment by quiz
JANUARY	of mole and number of particles)	of valency	\Box Apply the concept of mole in				or worksheet and off
	□ Numericals on mole concept	Write the electronic configurations of first	terms of mass and number of particles				line assessment by
	(relationship)	twenty elements along with	Analyse Thomson's model of				notebook work
	Discussion of NCEPT back Exercises	their valency with	an atom				
	Discussion of INCENT Dack Excicises.	explanation.	□ Critically analyse alpha	Project and			
		□ Explain atomic number	scattering experiment by	presentation on			
	Chapter 4: Structure of Atom	□ Differentiate between	proposed model of atom.	atomic models			
	Introduction of electron, proton and	isotopes and isobars	\Box Compare the properties of the				
	neutron and their discovery.	Discuss the applications	sub-atomic particles.				
	Rutherford's model of an Atom-	of Isotopes.	\Box Explain the observations of				
		\Box Describe the concept of	alpha scattering experiment in				

	(Observations and Conclusions)	average atomic mass of the	detail along with the supporting				
	□ Nuclear model of an atom by	isotopes with examples	reasons				
	Rutherford	through numericals.	Students would be able to-				
	☐ Limitations of Rutherford's model of	\Box Compare the number of	Explain Bohr's model of an				
FEBUARY	atom	sub atomic particles of	atom and critically analyse by				
	Revision of Thomson's and	various isotopes of the same	comparing with the previous				
	Butherford's model of atom	element.	proposed models of				
	Rohr's model of atom	Write electronic	\Box atom.				
		isotopes of the same	configurations of first twenty				
		element	elements along with their valency				
		\Box Write the applications of	with explanation				
		isotopes in day today life.	\square Write electronic configuration				
		The students would be able	of the ions formed by the first				
	□ How one electrone distributed in	to-	twenty elements excluding the				
		\Box Calculate the average	noble gases.				
		atomic mass of the isotopes	\Box Comprehend the meanings of				
		and give explanation for	atomic number and mass number				Term: - 2 nd as
		fractional atomic masses.	and try to represent the element				per CBSE
	□ Mass number	☐ Revise and reinforce all	with them. Analyse the difference				Guideline
		the concepts already learnt	between isotopes and isobars with				(March/Anr
		Pacall and Pamambar all	examples.				<u>(10101011/11)</u> 2022)
	Average atomic masses	the concepts					<u>2022)</u>
	Applications of Isotopes and isobar	the concepts					
	Numericals on Average Atomic						
	masses of isotopes						
	□ Discussion of NCERT back exercises.						
	PRL: - Impact of Covid						
	on socio-Economic						
	culture of society						
	culture of society.						
		1		1	1	1	

FINE ART (PAINTING) CLASS-IX

S.N.	UNIT	PERIOD	CHAPTER	EXPECTED MONTH	HOME ASSIGNMENT AND PROJECT	EXERCISE PREPARED TO SUPPLEMENT THESE GIVEN IN TEXT BOOK OR ASSIGNMENT SOURCES LIBRARY NEWS PAPER, MAGAZINE AND REFERENCE BOOK,INTERNET ETC.	LESSON AS PER SYLLABUS PRACTICAL AND THEORY
1.	01	45	Tessellation	April and May	Landscape	INTRNET OTHER ART BOOK	PRACTICAL- Fruit Sketching and shading, Birds
			art			RESOURCESS AND ACCORDING TO CBSE	Sketching and shading. Summer holiday assignment
							THEORY- color theory
2.	02	48	2 D Design	Julv	Objective Sketching	INTRNET OTHER ART BOOK	PRACTICAL- My Art room with principal of design
			0	,	, ,	RESOURCESS AND ACCORDING TO CBSE	THEORY color theory
3.	03	48	Man maid	August	Human Sketching	INTRNET OTHER ART BOOK	PRACTICAL- Still jug draw and paint.
	FA-I		Drawing	0		RESOURCESS AND ACCORDING TO CBSE	THEORY- Introduction to Art history
4.	04	45	Landscape	September	Sketching	INTRNET OTHER ART BOOK	PRACTICAL- School Campus,
			Painting	-		RESOURCESS AND ACCORDING TO CBSE	THEORY- Art awareness
5.	05	48	Still Life	October	Nature Sketching	INTRNET OTHER ART BOOK RESOURCESS AND ACCORDING TO CBSE	PRACTICAL- Art craft and textile from Rajasthan and Assam Collaborative Art contest Medium Mixed Media
					Term- ll		
06.	06 FA-II	45	2 D Design	November	Building Architecture Sketching	INTRNET OTHER ART BOOK RESOURCESS AND ACCORDING TO CBSE	PRACTICAL- Mandna Art with Mathematics
<u>7.</u>	<u>07</u>	<u>48</u>	<u>Still-life</u>	<u>December</u>	Winter vacation project Based on Landscape painting	INTRNET OTHER ART BOOK RESOURCESS AND ACCORDING TO CBSE	PRACTICAL- Similarities and difference between Indian contemporary Art and Tribal art form in India
<u>8.</u>	<u>08</u>	<u>48</u>	Painting composition	<u>January</u>		INTRNET OTHER ART BOOK RESOURCESS AND ACCORDING TO CBSE	PRACTICAL- Memory drawing
<u>9.</u>	<u>09</u>	<u>35</u>	<u>Revision</u>	<u>February</u>	<u>Submission</u>	INTRNET OTHER ART BOOK RESOURCESS AND ACCORDING TO CBSE	PRACTICAL- Revision of all
<u>10.</u>	<u>10</u>	<u>31</u>	<u>Revision</u>	<u>March</u>		INTRNET OTHER ART BOOK RESOURCESS AND ACCORDING TO CBSE	PRACTICAL- Practical

Annual Curriculum Plan (2021-22) Subject: English(Class- X)

MONTHS	Number of periods	LESSONS /TOPICS TO BE	LEARNING OBJECTIVE	SUGGES TED	ASSESSME NTS	Round Square	Art Integration	Project Based	LEARNING OUTCOMES
	perious	COVERED	S	ACTIVIT		Skill		Liverning	Students are able to
			Students will be able to:	IES					
April	28	First Flight: A Letter To God Dust Of Snow, Fire and	comprehend the story clearly & develop self- realization to	Diary entry of Lencho.	Reading Comprehensi on Test Class Test on	The activity will inculcate in	-Mind Map on the lesson A Letter to God PosterMaking on Global Warming		comprehend the chapters clearly and develop moral values.
		Ice.	inculcate moral values. compose a	Write the substance of the	the chapters	students the spirit of			compose a short poem on the natural objects.
		Footprints Without FeetA triumph of Surgery	short poem .on the natural objects like	poem.		tenacity.		Study the story	
			nre, water etc	Write a letter to your		The activity of letter		"RikkiTikkiTawi"byRudyardKipling.Preparea report	realize the harm of " Pampering" .
		Writing- Letter to the Editor	comprehend the story clearly & develop self- realization and understand the	friend describing him how to keep a pet at home		writing on pets will develop the spirit of compassion		making a comparative study of the two.	
		Grammar- Modals	bad effect of pampering. write any letter to the Editor regarding a problem.		Class Test on Grammar and Writing				
			frame correct						

MONTHS	Number of periods	LESSONS /TOPICS TO BE COVERED	LEARNING OBJECTIVE S Students will be able to:	SUGGES TED ACTIVIT IES	ASSESSME NTS	Round Square Skill	Art Integration	Project Based Learning	LEARNING OUTCOMES Students are able to
			sentences with the topics concerned.						
Мау	10	First Flight- Nelson Mandela	articulate the fact that freedom is not easily earned.	Give a pen picture of "Nelson Mandela"		The activity will inculcate in students the spirit of tenacity.			comprehend the chapters clearly
		Grammar- Subject Verb Concord	write down correct sentences as per the topic concerned.	Frame ten sentences which are grammatic ally correct as per the topic.					
July	38	 First Flight – Two Stories about Flying Poem- A Tiger in the Zoo Footprints Without Feet-The Thief Story 	comprehend the lessons and understand the benefit of "Self Help" .	Write a short paragraph on "Forgive ness."		The activity will create self awareness in students.			develop the ability to comprehend the lessons and realize the benefit of "Self Help" .

MONTHS	Number of	LESSONS TOPICS TO PE	LEARNING	SUGGES	ASSESSME	Round	Art Integration	Project Based	LEARNING
	periods	COVERED	S	ACTIVIT	N15	Square Skill		Learning	Students are able to
			Students will	IES					
			be able to:						
		Writing-Letter of							
		Complaint(Official)	understand	Write					
			basic nobility	short					
		Grammar	being.	paragraph					
		Determiners	C	on "Forgive					
				ness".					
			Clearly						
			format of the	Write a					
			letter.	letter to the Head					
				of the					
				Institution					
			articulate	regarding					
			correct words	a nogligono					
			to fill in the	y.					
			blanks with.	Fill in the					
				blanks					
				with					
				appropriat e					
				"Determi					
August	16	R E V	I S I	F O	F I R	T P	R I O	D I C	A L
~		T. T	O N	R	S	E			
		F I	R S	Р	R I	D I	A L		
			Т	Ε	0	С			
		First Flight- From the Diary of Anne						The activity will	develop the skill of
		Frank						inculcate the spirit	comprehending
		Footprints Without	can feel the					of "Compassion"	lessons and understand the basic
		Feet- Footprints	importance of					Compassion	values.

September 34 First Flight- The Hundred of Order convert seech in ones life. The activity will inculcate in ones life. The activity will inculcate in ones life. develop order of order with othe sentiments in ones life. September 34 First Flight- The senter of order order with othe sentences into the other order order sentences into the other order order order sentences into the other order order order with othe sentences into the other order	velop the skill of mprehending sons and derstand the basic lues

MONTHS	Number of periods	LESSONS /TOPICS TO BE COVERED	LEARNINGSUGGESOBJECTIVETEDSACTIVITStudents willIESbe able to:	ASSESSME Round NTS Square Skill	Art Integration	Project Based Learning	LEARNING OUTCOMES Students are able to
October	18	R E V	I S I N F O O	RSCOEN	D P E	R I O	D I C A L
		S E Poem-The Poem Ball	· CODP NE	R I D I O C	A L		
			realities of				
November	26	Writing- An analytical Paragraph with cues.	Compose a paragraph based on hints.				
	K E	VI S	N F O R H	A L Y E F A	K L Y	EXA	M INATIO N
December	10	H A L First Flight- Glimpses of India	F Y E R L A Y L have an idea about the four places	E X M I A The activity of writing paragraphs	A T I Prepare a "Baker's Menu".	O N	
		Footprints Without	mentioned in the story	on natural objects will inculcate			

MONTHS	Number of periods	LESSONS /TOPICS TO BE COVERED	LEARNING OBJECTIVE S Students will be able to:	SUGGES TED ACTIVIT IES	ASSESSME NTS	Round Square Skill	Art Integration	Project Based Learning	LEARNING OUTCOMES Students are able to
		Feet- The Making of a Scientist		Write an article on any scientific experimen t that you have done.		the spirit of environmen t The activity on article on scientific experiment will inculcate the spirit of inquisitiven ess			
January	10	R E V T H Poem-Animals Footprints Without Feet- The Necklace	ISIOIRJIRUnderstand the reasons why the poet has preferred animals to human beings.assessthe importance of satisfaction in one's life.	NFOPERWriteashortparagraphonthequalitiespossessedbyAnimals.Writeastorybasedonsatisfactionin one's	R T H O D	I R D- I C A	PER L	I O D	ICAL

MONTHS	Number of periods	LESSONS /TOPICS TO BE COVERED	LEARNING OBJECTIVE S Students will be able to:	SUGGES TED ACTIVIT IES	ASSESSME NTS	Round Square Skill	Art Integration	Project Based Learning	LEARNING OUTCOMES Students are able to
February	24	First Flight - The Sermon at Benares, The Proposal				The stories will develop the skill of			
		 Poem- The tale of Custard the Dragon Footprints Without Feet- The Hack Driver, Bholi 				communica tion and spirit of compassion Students will be asked to write a poem on pet	Poster Making on "Education is the weapon to change the world."		
March		A N	N U	L E	A M	N	тт	0 N	
		1 1	A		I	A			

VIDYA NIKETAN BIRLA PUBLIC SCHOOL,PILANI Annual Curriculum Planning (2021-22) Subject: ENGLISH Class: IX

Ή			NING OBJECTIVE	ESTED ACTIVITIES	NTEGRATION & PBL	SMENT	D SQUARE SKILL	NING OUTCOME
	DS		rs will be able to					rs are able
		st Child	ize the importance of parents especially for small kids in our everyday life.	agraph on the topic "Role of parents in a child's life."		Questions/Refere nce to the context from the story	activity of paragraph on the given topic will develop the spirit of compassion.	ntify the importance of human emotions of small kids in our everyday life.
		y beautiful mind	e the character of Einstein that was generous ,humble and considerate	picture on the life of "Albert Einstein"		ons/Reference to the context from the story	activity will inculcate the spirit of responsibility in the students.	ate the personality and character of Einstein.
		Adventures of Toto	y the love that an animal should be given in our society	y based on the topic "Mischievous Pets"		Questions/Refere nce to the context from the story	tivity of story on the given topic will develop the spirit of adventure.	asure the amount of love one has for the animals in the society.
			nize and analyze the importance of correct use of Tense	a paragraph in simple present tense describing your activities during this Covid 19 period at home.		os and editing on tense	develop self awareness in students.	ts will be able to use correct tense while using English.
ST		Kingdom of Fools	y the situation when all the people of a state or country are logic less	on any of the "Wise Men" of all times		ons/Reference to the context from the story	activity will inculcate the spirit of compassion in the students.	et the consequences of living in a society of fools

ST	h they had.	the role of a teacher in a student's life.	ate on the topic "The school of future will have no books and no teachers."		ons/Reference to the context from the story	activity will inculcate the spirit of inquisitiveness in students.	pret the significance of a teacher in one's life.
ST	Sound Of Music	et the value of determination and hard work in one's life being a handicap.	ction of a singer through a Diary Entry	a power point presentation 7 a pungi & shehnai. 2.Write 5 differences between two musical instruments and their importance in India in 100 words. 3.Draw your favourite musicians and write about them (any 3)in 100-200 words including Bismillah Khan.	ons/Reference to the context from the story	tivity of talk on the given topic will develop the spirit of tenacity.	rticulate the secret of success being a handicapped
EMBE R		ct the fact that we should be firm and determined in our approach to face the challenges of life in our everyday life.	Recitation		Recitation, Questions/Refere nce to the context from the story	tivity of talk on the given topic will develop the spirit of environment.	ine the fact that one should be firm in our day today life to be successful.
R R	tle Girl	te the fact of the reasons behind a father being harsh to the kids	up discussion on the topic "Strict Fathers"		ons/Reference to the context from the story	tivity of talk on the given topic will develop the spirit of compassion.	y the reasons for a father being harsh to the child in a household

IMBE R	h the Roof	e the feelings of an individual how one thinks being close to Nature	Recitation	Recitation, Questions/Refere nce to the context from the story	activity will inculcate the spirit of self awareness in students.	e ones senses being conscious of the merits and demerits of the season
R R	gend of the Northlan d	y how greed and miserliness makes oneself a shallow and self centered person	Recitation	Recitation, Questions/Refere nce to the context from the story	activity will inculcate the spirit of compassion in the students.	te the fact that if one is not generous he is equivalent to an animal
IMBE R	Happy Prince	te the significance of being humble and sacrificing in nature	aph on Selflessness in 80-100 words	ons/Reference to the context from the story	activity will inculcate the spirit of compassion in the students.	ate the importance essness in one's life.
BER	t-Verb Concord	hize and analyze the importance of Subject-Verb Concord	correction on the same topic	s and editing on Subject-Verb Concord	develop self awareness in students.	ts will be able to use correct Subject-Verb Concord while using English.
BER	ldhood	y the tenets of being great in life.	g of "Dhanushkodi" and "Rameshwaram in the map"	Questions/Refere nce to the context from the story	activity will inculcate the spirit of self awareness	ts will have no doubt in comprehending the chapter.
BER	men are foreign	ate that all human beings are the same.	Recitation	Recitation video clips, ons/Reference to the context from the story	activity will inculcate the spirit of self awareness	e the fact that the world of today is a global village and all the people are the same everywhere.

BER	ering the storm in Ersama	ate the agony of the people affected by a calamity.	y on the "Preparedness of a community for a natural disaster"		Questions/Refere nce to the context from the story	ctivity of story writing on the given topic will develop the spirit of adventure.	ts will be able to easily comprehend the chapter.
BER	g	y the fact that even a simple task can be painful if not done systematically.	clips on a talk of 2 minutes on the "Prerequisites of Packing"		ons/Reference to the context from the story	tivity of talk on the given topic will develop the spirit of tenacity.	he importance of being systematic in life
MBER	ed Speech	hize and analyze the importance of Reported Speech	correction on the same topic		s and editing on Reported Speech	develop self awareness in students.	ts will be able to use correct form of Reported Speech
MBER	ed Speech	hize and analyze the importance of Reported Speech	correction on the same topic		os and editing on Subject-Verb Concord	develop self awareness in students.	ts will be able to use correct Subject-Verb Concord while using English.
MBER	st Leaf	ate and analysis of the fact that one should be optimistic in one's life.	g an experience of "Depression and Rejection" through writing a story in about 250words.		Questions/Refere nce to the context from the story	activity will inculcate the spirit of self awareness.	et the fact that one should be siding hope in our lives to be happy and cheerful.
MBER	h Yadav	ate the importance of determination in one's life	be the experience of your mountain/desert expedition.	a picture of Santosh Yadav and 3 other mountaineers. about their struggles and achievements in 100 words each.	ons/Reference to the context from the story	tivity of talk on the given topic will develop the spirit of tenacity.	et the significance of confidence and belief in one's life
MBER	Sharapova	te the power of hope and belief in one's life	sing the students in the class assuming oneself to be a Chief Guest on the occasion of "Athletic Meet"		bns/Reference to the context from the story	tivity of talk on the given topic will develop the spirit of tenacity.	y a spectrum of wide range of human emotions.

Ή	ANNUAL EXAM						
JARY	REVISION		FC	OR	ANNUAL	L EX	AM
ARY	re You	et the fact that one has to be smart in order to avoid problems.	clip of narrating an incident when someone broke into one's house		ons/Reference to the context from the story	tivity of talk on the given topic will develop the spirit of adventure.	te the importance of being witty in one's life.
AR Y	ggar	y the effect of goodness that is evident in the society	on the topic "How to abolish begging"		ons/Reference to the context from the story	activity will inculcate the spirit of compassion in the students.	et the positive effects of goodliness in our lives
y	ake Trying	et the fact that every creature is a lovely creation of God.	Recitation		Recitation, Questions/Refere nce to the context from the story	activity will inculcate the spirit of environment.	ate the fact that we do not have any right to hurt any animal or creature whatsoever.
MBER	Bond of Love	et the fact that animals are love starved.	on the topic "Animals also feel the pleasure of love and the pain of separation"		ons/Reference to the context from the story	activity will inculcate the spirit of compassion in the students.	te the fact that animals are very loving and affectionate.
MBER	se is not a Home	et the fact that one forgets ones loneliness in good company	sing the students on any "Horrifying Experience" of oneself		ons/Reference to the context from the story	activity will inculcate the spirit of compassion in the students.	e the situations of life in a better way if optimistic by nature.
MBER	hiners	hize and analyze the importance of.Determiners.	correction on the same topic		s and editing on Determiners	develop self awareness in students.	ts will be able to use correct form of Determiners.
MBER	ling a Tree	e the fact that how difficult it is to kill a tree	Recitation audio clip		ons/Reference to the context from the story	activity will inculcate the spirit of environment.	the nature, sturdiness and longevity of the tree.

Subject: Mathematics Class- X

PBL : ROLE OF MATHEMATICS IN MAINTAINING HEALTH AND WELLNESS OF STUDENTS.

Months	Lessons /Topics Covered	Learning Objectives Students will be able	Suggested Activities	Assessments	Expected Learning Outcomes Students are able to:
April 2021	1.Real Numbers	<i>to:</i> Define fundamental Theorem of Arithmetic Apply fta in problem Solving. Represent rational Numbers in terms of Terminating/ Non- Terminating recurring in decimal numbers. 	Project: .1. Early History of Mathematics(this project is meant to develop the students awareness of the history of mathematics. The students should give	UNIT TEST	 Define Fundamental Theorem of Arithmetic Apply FTA in problem solving. Represent rational numbers in terms of terminating/ non-terminating recurring in decimal numbers.
			an outline of the major milestones in mathematics from Euclid to say Euler.		 Note:(i)Students are able to enhance their knowledge about properties of Real Numbers& Euclid's Lemma to find HCF of given numbers. (ii) <u>RSC outcome</u>: Problem solving Communication Skills Team Work Leadership Through Project work.
April 2021	2.Polynomials	 FIND ZEROS OF A POLYNOMIALS. FIND RELATIONSHIP 			 . 1.Find Zeros of a Polynomials. 2.Find relationship between zeros and coefficient of quadratic

		AND COEFFICIENT OF QUADRATIC POLYNOMIALS. 3. WRITE STATEMENT AND SOLVE SIMPLE PROBLEMS ON DIVISION ALGORITHM FOR POLYNOMIALS WITH REAL COEFFICIENT.		UNIT TEST	polynomials. 3.Write statement and solve simple problems on division algorithm for polynomials with real coefficients.
May 2021	2.Polynomials	- Do-			- Do- RSC outcome: Problem solving based on Application of identities.
July 2021	3.Pair of Linear Equations in two Variables.	 1.Find number of Zeros of given graph of an equation. 2. Find solution of given linear equation numerically and graphically. 3. To check consistency/ inconsistency of given Pair of linear Equations 4. To find number of solutions based on algebraic conditions. 5. Find solutions of given pair of linear equations by: 	Maths Lab Activity: To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.	UNIT TEST	 Find number of Zeros of given graph of an equation. Find solution of given linear equation numerically and graphically. To check consistency/ inconsistency of given Pair of linear Equations To find number of solutions based on algebraic conditions. Find solutions of given pair of linear equations by: substitution , elimination,

					1
		substitution ,			methods.
		elimination, methods.			
		6. Convert & find			
		solution of simple			
		situational problems.			6.Convert & find solution
		7. Find solution of			of simple situational problems.
		simple problems on			
		equations reducible to			7. Find solution of simple
		linear equations.			problems on equations reducible
					to linear equations.
					Note(a.) Students are able to find :
					(i)solutions of linear equations
					algebraically and graphically.
					(ii) Solve real life problems.
					(b.) RSC outcome: Problem Solving
					with creativity.
			Project : To study		
			the distance between		
August2021			different points of a		
11454512021			geometrical figure	PERIODIC	
		1 Review concept of	when it is displaced	TEST -01	
	Co-ordinate	coordinate geometry.	and / or rotated. It		1 Review concept of coordinate
	Geometry	2. Draw graphs of	enhances the		geometry.
		linear equations.	tamiliarity with co-	(9 th -19 th)Aug	2. Draw graphs of linear equations.
		3. Apply Distance	ordinate geometry.	. / 0	3. Apply Distance formula
		Iormula			4. Apply Section Formula(Internal
		Formula(Internal			d1V1S10n)
		i ormuta(internat			

		division)			
					Note(i) Students are able to find Distance between two points and area of triangle by graphical representationalso.
					(ii)RSC outcome: Problem Solving through Application of Formulae.
				UNII IESI	
			Matha Lab		
August 2021	TRIANGLES	1 To prove BPT 2.To prove converse of BPT 3 If in two triangles	activity: 1.To verifythe basic Proportionality Theorem using		1 To prove BPT
		 , the corresponding angles are equal the triangles are similar. 4 If in two triangles , the corresponding 	parallel line board and triangle cut-outs.	UNIT TEST	 2.10 prove converse of BPT 3 If in two triangles , the corresponding angles are equal the triangles are similar.

	sides are proportional,		4 If in two triangles, the
	their corresponding		corresponding sides are
	angles are equal the		proportional, their corresponding
	triangles are similar.	2. To verify the	angles are equal the triangles are
	5 If one angle of a	Pythagoras Theorem	similar.
	triangle is equal to one	by the method of	
	angle of another	Paper folding,	5 If one angle of a triangle is
	triangle and the sides	cutting and pasting.	equal to one angle of another
	including these angles		triangle and the sides including
	are proportional ,the		these angles are proportional
	two triangles are		,the two triangles are similar.
	similar.		
	6. If a perpendicular is		6. If a perpendicular is drawn
	drawn from the vertex		from the vertex of the right
	of the right angle of a	Project:	angle of a right triangle to the
	right triangle to the	$\underline{1}$. Geometry in real	hypotenuse, the triangle on each
	hypotenuse , the	Life: In this project	side of the perpendicular are
	triangle on each side of	we try to find	similar to the whole triangle
	the perpendicular are	situations in daile	and to each other.
	similar to the whole	life where	7. To prove the ratio of the areas
	triangle and to each	geometrical notions	of the two similar triangle is
	other.	can be effectively	equal to the ratio of the square
	7. To prove the ratio of	used . In particular , ,	s of their corresponding sides.
	the areas of the two	in the following	
	similar triangle is	examples the	8.To prove In a right triangle,
	equal to the ratio of the	students discover	the square on the Hypotenuse is
	squares of their	situations in which	equal to the sum of the squares
	corresponding sides.	properties of similar	on the other two sides.
4	8.To prove In a right	triangles learnt in the	9.To prove In a triangle, If the
4	triangle, the square on	classroom are useful.	square on one side is equal to
	the Hypotenuse is	<u>2</u> . How will a mirror	sum of the squares on the other
	equal to the sum of the	should you buy if	two sides, the angles opposite
	squares on the other	you want to be able	to the first side is a right angle.
	two sides.	to see your full	10 . Problems Solving based on
	9.To prove In a	verticalimage? We	above all concepts.
	triangle, If the square	are given the fact	

	on one side is equal to sum of the squares on the other two sides , the angles opposite to the first side is a right angle. 10 . Problems Solving based on above all concepts.	that the angle of incidence equalsa the angle of reflection.Students will find that the mirror should be at least half his//her height. <u>2</u> . To find the width of a Pathway.		

SEPTEMBER 2021	Introduction To Trigonometry	 Define Trigonometric ratios of an acute angle of a right angled triangle. Prove their existence Motivate the ratios whichever are defined at 0° and 90°. Find values of the trigonometric ratios of 30°, 45° and 60°. Find relationships between the ratios. Apply Trigonometric ratios of complementary angles. Prove and Apply the identities in problem solving. 	Maths Lab activity:1. To verify that the angle subtended by an arc at the centre of a circle is twice the angle subtended by the same arc at any other point on the remaining part of the circle, using the method of paper cutting, pasting & folding. 2. To verify that the angles in the same segment of a circle are equal, using the method of paper cutting, pasting & folding. 3. To verify using the method of paper cutting, pasting and folding that: (a) the angle in the semi circle is a right angle. (b) The angle in the major segment is acute.	UNIT TEST	 Define Trigonometric ratios of an acute angle of a right angled triangle. Prove their existence Motivate the ratios whichever are defined at 0⁰ and 90⁰. Find values of the trigonometric ratios of 30⁰, 45⁰ and 60⁰. Find relationships between the ratios. Apply Trigonometric ratios of complementary angles. Prove and Apply the identities in problem solving.

SEPTEMBER 2021	Areas related to circles	 Area of circles & area of Sectors and Segments of a circle. Find the length of a circle area for a circle. 	© The angle in the minor segment is obtuse.		
		are of a clicle. 3 Find solutions of problems based on areas and Circumference of circles(Problems should be based on central angle of 60 ⁰ ,90 ⁰ only. Plane figures involving Triangles, Simple quadrilaterals and circles only).	Maths Lab Activity: 1. To get familiar with the idea of probability of an even through a double colorcard experiment. Project: To appreciate that finding probability through experiment is different from finding probability by calculation. Students become sensitive towards the fact that if they increase the number of observations, probability found through experiment approaches the calculated probability.	UNITTEST	 1 Area of circles & area of Sectors and Segments of a circle. 2. Find the length of arc of a circle. 3. Find solutions of problems based on areas and Circumference of circles (Problems should be based on central angle of 60°,90° only. Plane figures involving Triangles, Simple quadrilaterals and circles only). RSC outcome: Students are able to enhance their observational, thinking &application based problem solving skill
		1. Define Probability	INTERSECTION		

OCTOBER		2. Find Probability &	MATHEMATICS		1. Define Probability
2021	Probability	Not Probability of	OUIZ		2. Find Probability & Not
		simple problems based	QUIL .	UNIT TEST	Probability of simple problems
		on single event			based on single event.
					Nota(i) Studenta era able to
					find possibility of any event
					in their day – today life situations
					In their day today nie situations.
					(II) KSC outcome. Communication Skills
					Team Work
					Leadership through
					Experimentation &
					Project work.
				PERIODIC	
				TEST - 02	
OCTOBER					
2021					

NOVEMBER 2021				
NOV/DEC		REVISION AND		
2021		TERM-I		
		EXAMINATION		

Annual Curriculum Plan for the session 2021-22 TERM II

Subject: Mathematics

Class- X

PBL : ROLE OF MATHEMATICS IN DEVELOPING

NATIONAL ATHELETES.

Months	Lessons /Topics	Learning Objectives	Suggested Activities	Assessments	Expected Learning Outcomes
	Covered	Students will be able			Students are able to:
		to:			
DECEMBER	4. Quadratic	1 . Write standard			
2021	Equations	form of Quadratic			
		equation $ax^2 + bx + c$			1 . Write standard form of
		$=0 (a \neq 0)$.			Quadratic equation $ax^2 + bx + c = 0$
		2. Find solution of			$(a \neq 0)$.
		Quadratic equations by			
		factorization, and by			2. Find solution of Quadratic
		using Quadratic			equations by factorization,
		Formula.			and by using Quadratic
		3. Find relationship			Formula.
		between discriminant			3.Find relationship between
		and nature of roots.			discriminant and nature of roots.
		4. Find solution of			
		application based			4. Find solution of application
		(situational problems)			based (situational problems)
		based on quadratic			based on quadratic equations
		equations related to			related to day today activities.
		day today activities.			
					Note(i) Students are able to find
					solutions of day today
					problems through Quadratic
					equations.
					(ii) RSC outcome: Application
				UNIT TEST	basedProblem Solving.
JANUARY	5.A.P.	1 Define A.P.	Maths Lab		1 Define A.P.

2022	2 Derive the formula	Activity		2 Derive the formula to find
2022	to find nth term and	1 To verify		nth term and sum of the first
	sum of the first nth	that the given		nth term of A P
	term of A P	sequence is		3 Apply the formula in solving
	3 Apply the formula	an arithmetic		day today life problems
	in solving day today	progression		day today me problems.
	life problems	by naper		Note(i): Students are able to
	ine problems.	cutting &		enhance their observational and
		nasting &		logical skill
		method		
		2 To verify		
		that the sum		RSC outcome:
		of first n		(i) Communication Skills
		natural		(i) Leadershin
		numbers is		(iii) Team work through
		n(n+1)/2 by		Project work
		graphical		Tojeet work.
		method		
		method.		
		Project:		
		Mathematical		
		designs and	LINIT TEST	
			UNITIESI	
		patterns		
		Arithmatia		
		Brograggion		
		Piogression.		

JANUARY 2022	9. Applications of Trigonometry	 1.Define angle of Elevation and angle of Depression. 2. Find Heights and Distance of simple problems(angle of elevation/depression should be only 30⁰, 45⁰ and 60⁰. 	Project: To make a clinometer and use it to measure the height of an object.	UNIT TEST PERIODIC TEST - 03	 1.Define angle of Elevation and angle of Depression. 2. Find Heights and Distance of simple problems(angle of elevation/depression should be only 30⁰, 45⁰ and 60^{0.} Note(i)Students are able to find Height and Distance of the problems from day today life situations. (ii). RSC: Communication Skills Team Work Leadership through Project work.
FEBRUARY 2022	10. Circles	 Define tangent to a circle, Point of contact Prove the tangent of a circle at any point of contact of a circle is perpendicular to the radius through the point of contact. Prove the lengths of tangents drawn from an external point to a circle are equal. Apply the concept of above two theorems in problem solving. 		UNIT TEST	 Define tangent to a circle , Point of contact Prove the tangent of a circle at any point of contact of a circle is perpendicular to the radius through the point of contact. Prove the lengths of tangents drawn from an external point to a circle are equal. Apply the concept of above two theorems in problem solving .
FEBRUARY 2022	11. Constructions	1 Divide a line segment in a given	Maths Lab activity:	UNIT TEST	1 Divide a line segment in a given ratio.

		The state	
	ratio.	To verify	
	2. Draw tangents to a	u using the	2. Draw tangents to a circle
	circle from a point	method of	from a point outside it.
	outside it.	paper cutting,	
		pasting and	
		folding that	
		the lengths of	Note: (i)Students are able to
		tangents	enhance their thinking &
		drawn from	creative skills.
		an external	
		point are	(ii) RSC outcome:
		agual	Communication Skills
		2 To vorify	Communication Skins
		2. To verify	
		The Alternate	creativity.
		Segment	
		Theorem by	
		the method	
		of paper	
		cutting	
FEBRUARY		,pasting and	
2022		folding.	
		C	

MARCH 2022	14. Statistics	 1.To find Mean, Median and Mode of grouped Data by using Formula. Mean by direct and assumed mean method only. 2. To find Median of grouped Data by Ogive methods(Cumulative Frequency Graph). 	Project: Collect the Data of temperature of Pilani of a week and find Mean Mode & Median.	UNIT TEST	 1 To find Mean, Median and Mode of grouped Data by using Formula. 2. To find Median of grouped Data by Ogive methods (Cumulative Frequency Graph). RSC outcome:1. Students are able to enhance data based analysis and decision making skills. 2. Environment(Communication skills, Team work & leadership Quality.) through project work. Note: Students are able to
MARCH/ APRIL 2022		REVISION AND TERM-II EXAMINATION			develop the concept/ properties about similar figures.

सत्र - 2021-22

क्रम संख्या	पाठ का नाम	पूर्ण होने का माह	व्याकरण
1	दो बैलों की कथा	अप्रैल	उपसर्ग -प्रत्यय
2	कबीर -साखियाँ व पहला सबद	"	अलंकार - अनुप्रास, श्लेष ,
3	मेरे संग की औरतें	"	यमक , उपमा
4	अपठित गद्यांश - पद्यांश	ਸई	
5	वाख	जुलाई	समास
6	ल्हासा की ओर	11	
7	रसखान - सवैये	"	
	पूर्व मध्यावधि परीक्षा	अगस्त	
8	कैदी और कोकिला		वाक्य, संवाद लेखन
9	सांवले सपनों की याद		पत्र लेखन
10	नाना साहब की पुत्री देवी मैना को भस्म	सितम्बर	अलंकार - रूपक , उत्प्रेक्षा,
	कर दिया गया		अतिश्योक्ति , मानवीकरण
11	चन्द्र गहना से लौटती बेर		
12	प्रेमचंद के फटे जूते	अक्टूबर	अपठित गद्यांश - पद्यांश
13	रीढ़ की हड्डी		
	मध्यावधि परीक्षा		
14	मेघ आए	नवम्बर	पत्र लेखन, अनुच्छेद लेखन
15	बच्चे काम पर जा रहे हैं		वाक्य के भेद
16	मेरे बचपन के दिन	दिसम्बर	
17	यमराज की दिशा		
		जनवरी , फरवरी ,मार्च	पुनरावृत्ति
	वार्षिक परीक्षा		

Sanskrit

सत्र **- 2021-22**

वर्ष	कक्षा दशमी	कक्षा नवमी	कक्षा अष्टमी	पादय सहगामी कियाकलापः
2021-22				
<u> अप्रैल मई</u>	पादय पुस्तकम्-	पाव्यपुस्तकम्	पादयपुस्तकम्	फलपुष्पाणां नामानि चयनम्
	<u>1-</u> शुचि पर्यावरणम्	1- भारतीवसन्तगीतिः	1 सुभाषितानि	
	2-गुणवती कन्या	2- स्वर्णकाकः	2 बिलस्य वाणी न कदापि मे	
	व्याकरणम्-	व्याकरणम्	श्रुता	परस्परम् संस्कृतेन परिचयः ।
	प्रत्ययाः- टाप्, डीप्, त्व, तल्।	1- शब्दरूपाणि-राम	व्याकरणम्	
	स्वर सन्धि- दीर्घ, गुण, यण,	(अकारान्त)	क्त्वा, तुमुन्, ल्यप्	
	वृद्धि, अयादि ।	मुनि (इकारान्त)	शब्दरूप	
	कृदन्त प्रत्ययाः- क्त्वा तुमुन्	2-वर्णमाला-वर्ण संयोजन व	राम, लता	
	ल्यप्	वियोजन	धातु रूप	
	शब्दरूपाणि- किम् तद्(त्रिषु	उच्चारण- स्थानानि	पठ् पंचलकारेषु	
	लिंगेषु)	कृदन्त प्रत्ययाः-क्त्वा, तुमुन्,	सन्धि, दीर्घ, गुण	
		ल्यप् ।		
		सन्धि- दीर्घ गुण यण्		प्रार्थनासभायाम् संस्कृत-वार्ता
		पठ् पञ्चलकारेषु		
जुलाई	पाट्यपुस्तकम्	पादयपुस्तकम्	पादयपुस्तकम्	
	3- शिशु लालनम्	3-सोमप्रभम्	अभगवदज्जुकम्	
	4- व्यायामः सर्वदा पथ्यः	4-क ल्पतरुः	4 संदैव पुरतो निधेहि चरणम्	
			_	

	1	1	1	1
	व्याकरणम्	व्याकरणम्	व्याकरणम् श	
	अव्ययपदानां वाक्येषु प्रयोगঃ-	शब्दरूपाणि- लता (आकारान्त)	शब्द रूप- फल, नदी	
	अपि, इव,उच्चैः, एव, नूनम्,	नदी (ईकारान्त)	सन्धि- यण् ,वृद्धि	
	पुरा,इतस्ततः,अत्र,तत्र, यथा	धातुरूपाणि- सेव् लट् लृट्		
	तथा,विना, वृथा, अथुना,	(लकारयोः)		श्लोकोच्चारण प्रतियोगिता
	হানীঃ– হানীঃ	कृदन्त प्रत्ययाः- क्त्वा तुमुन्		
	समासा- अव्ययीभावः द्वन्द्वः	ल्यप् ।		संस्कृत-सम्भाषण शिविर
	कर्मधारयः ।			
	व्यञ्जन सन्धि-वर्गस्य प्रथम	व्यञ्जन सन्धि-	व्यञ्जन सन्धि-	
	अक्षराणां प्रथमाक्षरे परिवर्तनम्	वर्गस्य प्रथमाक्षराणां तृतीयाक्षरे	छत्व संधि त् स्थाने च,	
	प्रथमाक्षराणां तृतीयाक्षे	परिवर्तनम् ।	त् स्थाने ल्	
	परिवर्तनम् ।	वर्गस्य प्रथमाक्षराणां पञ्चमाक्षरे		
		परिवर्तनम् ।		
	पादय पुस्तकम्	पादयपुस्तकम्	पादयपुस्तकम्	
	5 - बुद्धिर्बलवती सदा	5-सूक्तिमौक्तिकम्	5 धर्मे धमनं पापे पुण्यम्	
अगस्त	6- सुभाषितानि	6-भ्रान्तो बालः	6 सप्तभगिन्यः	अन्तर्विद्यालयीय संस्कृत
पूर्वमध्य	व्याकरणम्	व्याकरणम्	व्याकरणम्-	श्लोकोच्चारण प्रतियोगिता
<u>परीक्षा</u>	रचनात्मकं कार्यम्	शब्दरूपाणि तत् व किम्	विसर्ग सन्धि विसर्गस्य रत्वम् ,	
	पत्रलेखनम्	त्रिषु लिंगेषु	सत्वम् , शत्वम्	
	संख्याज्ञानम्	पत्रलेखनम्		
		संख्याज्ञानम्-एकतः चतुपर्यन्तम्		
		त्रिषु लिंगेषु		
	वाच्य परिवर्तनम् केवलं लट्	7 प्रत्यभिज्ञानम्		
	लकारे	व्याकरणम्		नाट्याभिनय कौशल- विकासः
	चित्राधारित पञ्चवाक्यानां	विसर्ग सन्धिः- उत्वं रत्वं च	पादयपुस्तकम्	
सितम्बर	निर्माणम्	मोऽनुस्वारः त् स्थाने ल्	7 कः रक्षति कः रक्षितः	
	प्रत्ययाঃ-ठक् मतुप् णिनि	र पूर्वस्य रेफस्य लोपः दीर्घत्वं	8 हिमालयः	
	7- भूकम्प विभीषिका	अस् भू धातुरूपाणि	व्याकरणम् ॥	

			शब्द रूप श्च साधु ,मुनि	
	कृदन्त-शतृ शानच् तव्यत्	उपपदविभक्तीनां प्रयोगः	धातु रूप - सेव त्रिषुलकारेषु	
	अनीयर्	चित्राधारित पञ्चवाक्यलेखन	(लट ,लृट , लङ्)	
		अभ्यासः ।		
अक्तूबर	अर्द्धवार्षिकी परीक्षा	अर्द्धवार्षिकी परीक्षा	अर्द्धवार्षिकी परीक्षा	
	पाद्यपुस्तकम्	पादयपुस्तकम्	पुनरभ्यासः	पाठाधारित परियोजना
	8-प्रश्नत्रयम्	8-लौहतुला	सन्धि- वर्गस्य प्रथम अक्षरस्य	कार्यम्
	9-प्राणेभ्योऽपि प्रियः सुहृद्	9-सिकतासेतुः	स्थाने तृतीयाक्षरे परिवर्तनम्	
नवम्बर	सन्धिः पूवरूप,मोऽनुस्वारः	उपसर्गाः (22)	पादयपुस्तकम्	
			9 આર્યમટ્ટ	कार्यपत्रम्
	10-अन्योक्तयः	10-जटायोः शौर्यम्	10 प्रहेलिका	
	11-विचित्रः साक्षी	11-पर्यावरणम्		
		शब्दरूपाणि-फल,वारि	पुनरावृत्तिः	
<u>दिसम्बर</u>	12 -जीवनम् विभवम् विना	हिन्दीभाषायां आङग्लभाषायां	शब्दरूप , धातुरूप	
		वा लिखितानां पञ्चसरल	संस्कृत अनुवाद	
	पुनरावृत्तिः	वाक्यानां संस्कृतभाषायां		
		अनुवादः ।	मध्योत्तरीय परीक्षा	कार्यपत्रम्
	मध्योत्तरीय परीक्षा	मध्योत्तरीय परीक्षा		
			चित्राधारित पञ्चवाक्यानां	कार्यपत्रम्
			निर्माणम्	
<u>जनवरी</u>	पूर्व वोर्ड परीक्षा	12-वाङ्मनः प्राणस्वरूपम्	पुनरावृत्तिः	कार्यपत्रम्
2022		पुनरावृत्तिः	सन्धि स्वर	
			पुनरावृत्तिः	कार्यपत्रम्
<u>फरवरी</u>	पूर्व वार्षिकी परीक्षा	पुनरावृत्तिः	विसर्ग सन्धि धातुरूप	
			पुनरावृत्तिः व्यञ्जन सन्धि	
		वार्षिकी परीक्षा		
<u>मार्च</u>	वार्षिकी परीक्षा		वार्षिकी परीक्षा	