	MAPPING OF (2021-22)	GRADE 10 MATHEN	MATICS TOPICS WITH	NCERT LEARNING OUTCOMES
MONTH	Chapter	Content Area/Concept	Learning Objectives	Learning Outcome
APRIL	1. Real Numbers	Euclid's Division	Apply Euclid Division Algorithm and obtain HCF of two positive integers in the context of the given problem Apply Euclid Division Algorithm and prove results of positive integers in the form of ax+b	Generalises properties of numbers and relations among them studied earlier, to evolve results, such as, Euclid's division algorithm, fundamental theorem of arithmetic in order to apply them to solve problems related to real life contexts
		Fundamental Theorem of	where a and b are constants Use the Fundamental	
		Arithmetic	Theorem of Arithmetic and calculate HCF and LCM of the given numbers in the context of the given problem	
		Irrational Numbers	Recall the properties of irrational number and prove that whether the sum /difference	
			/product /quotient of two numbers is irrational or not Apply theorems of	
			irrational number and prove whether a given number is irrational or not	

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		Decimal	Apply theorems of	
		Representation	rational numbers	
		of Irrational	and find out about	
		Numbers	the nature of their	
			decimal	
			representation	
			and their factors	
MAY	2.	Geometrical	Recall degree of	Uses algebraic and graphical
	Polynomials	meaning of	polynomial and	method of finding zeroes of
		Zeroes of a	find the number of	a polynomial in order to
		Polynomial	zeroes of	establish a relationship
			polynomial	between them
			Analyse the graph	
			of the polynomials	
			and find the	
			number of zeroes	
		B.L.C.	of polynomial	
		Relationship	Compute zeroes of	
		between Zeroes	the polynomials	
		and	and verify the	
		Coefficients of	relationship	
		a Polynomial	between zeroes	
			and the	
			coefficients	
			Compute the sum	
			and product of	
			zeroes of the	
			polynomial and	
			find the quadratic	
			polynomial	
		Division	Divide the two	
		Algorithm for	given polynomials	
		Polynomials	and verify the	
			division algorithm	
			Divide the given	
			polynomial with	
			its known zero and	
			find all the other	
			zeroes of that	
			polynomial	
JUNE	3. Pair of	Introduction	State the	Uses graphical and other
	Linear	and Properties	properties of	methods in order to finds
	equations in	of Linear	linear equation	solutions of pairs of linear
	two variables	equations and	and classify the	equations in two variables
		non- linear	given equations as	
		equations	linear or non-	
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ANNUAL PEDAGOGICAL	SUBJECT : MATHEMATICS		
		linear	
	Graphical Method of Solution of a Pair of Linear Equations	Interpret the concepts of linear equations and represent any given situation algebraically and graphically Plot the lines corresponding to the given two linear equations and comment on the nature /behaviour of the lines representing the linear	
	Algebraic method for	equations Use different algebraic methods and solve a pair	
	solving Linear Equations	of linear equations Use the most appropriate algebraic method and solve the given pair of linear equations Use the concepts of pair of linear equations in two variables and represent any given situation algebraically and find its solution Calculate the ratio of coefficients of linear equations and discuss the nature of pair of	

linear equations

		Equations Reducible to a	Rewrite the given equations (using	
		Pair of Linear	substitution	
		Equations in	method) which	
		Two Variables	are reducible to a	
			pair of linear	
			equations and find	
			the solution of	
			those equations	
JULY	4. Quadratic	Introduction to	In the form of	Demonstrates knowledge of
	Equations	Quadratic	Quadratic	application of various
		Equations	Equation	strategies and find roots and
			represent the	determine the nature of
			given situation	roots of a given equation
			algebraically Rewrite the given	
			equations in the	
			standard form and	
			check whether	
			they are quadratic	
			or not	
		Factorization	Solve quadratic	
		Method	equations through	
			factorization and	
			find its roots	
			Solve quadratic	
			equations through	
			middle term	
			splitting and find	
		Completing	its roots	
		Completing Square Method	Solve quadratic equations by	
		Square Method	completing the	
			square and find its	
			roots	
		Solving a	Use the quadratic	
		Quadratic	formula and find	
			the roots of	
		Equation	quadratic	
			equation	
		Roots of a	Substitute the	
		Quadratic	value of the roots	
		Equation	of a given	
			quadratic	
			equation and	
			verify them.	

		Nature of Roots	Examine the	
			discriminant of	
			quadratic	
			equation and find	
			out the nature of	
			its roots	
			Describe the	
			nature of the	
			roots of a	
			quadratic	
			equation and	
			determine that	
			whether a given	
			situation is	
			possible or not	
AUGUST	5. Arithmetic	Introduction to	Produce patterns	Develops strategies in order
7.00031	Progression	Arithmetic	and observe that	to apply the concept of AP
	110616331011	Progressions-	succeeding terms	to daily life situations
		1 106103310113	are obtained by	to daily life steadilons
			adding a fixed	
			number to the	
			preceding terms.	
	-		Distinguish	
			between finite	
			and infinite AP	
			and determine the	
			nature and write	
			the last term of	
	-	nth term of AP	the given AP	
		nth term of AP	Calculate the nth	
			term of a given AP	
			and find its terms	
			and their nature	
		nth term of AP	Calculate the nth	
		Sum of an AP	term of a given AP	
			and solve real-life	
			word problems	
			Calculate the sum	
			of a given AP and	
			get the solution of	
			real-life word	
			problems	
		Sum of an AP	Calculate the	
		Last term of an	sum of a given	
		AP	AP and solve	
			contextual	
			problems	

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			Calculate the last	
			term of the given	
			AP and find	
			solution real-life	
			word problems	
		Last term of an	Use appropriate	
		AP	formula to	
			calculate the last	
			term of the given	
			AP	
AUGUST	6. Triangles	Similar figures	Distinguish	Uses reasoning in order to
			between	differentiate between
			congruency and	congruent and similar
			similarity and	figures
			understand the	
			concept of similar	
]		figures	
			Compute the	Uses different geometric
			angles and ratio of	criteria established earlier
			sides of polygons	such as basic proportionality
			and determine	theorem etc. in order to
			their similarity	establish properties for
		Similarity of	Compute the	similarity of two triangles
		triangles	angles and ratio of	
			sides of triangles	
			and determine	
			their similarity	
			Apply basic	
			proportionality	
			theorem and its	
			converse and	
			determine the	
			ratio of sides in	
			the given	
			triangle(s)	
	1	Criteria for	Apply various	
		similarity of	criteria of	
		Triangles	similarity and	
		3	prove whether	
			given triangles are	
			similar or not	
	1		Show similarity of	
			triangles and solve	
			real life problems	
	1		I car inc problems	

Areas of Similar Triangles Compute the square of the ratio of the corresponding sides of triangles and find the area of similar triangles Compute the area of similar triangles and find the relation between their sides, medians, mid points of the triangles Pythagoras Apply the theorem
of the corresponding sides of triangles and find the area of similar triangles Compute the area of similar triangles and find the relation between their sides, medians, mid points of the triangles
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and find the relation between their sides, medians, mid points of the triangles
relation between their sides, medians, mid points of the triangles
their sides, medians, mid points of the triangles
medians, mid points of the triangles
points of the triangles
triangles
Pythagoras Apply the theorem
Theorem that if a
perpendicular is
drawn from the
vertex of the right
angle of a right
triangle to the
hypotenuse then
triangles on both
sides of the
perpendicular are
similar to
the whole
triangle and prove
Pythagoras
Theorem.
Prove Pythagoras
theorem and its
converse and
solve real life
problems
Apply Pythagoras
theorem and its
converse and
determine that
whether a given
triangle is a right-
angled triangle or
not

SEPTEMBER	7. Co- ordinate Geometry	Basics of Graphs	Identify x and y coordinate and plot points on the graph	Derives formulae to establish relations for geometrical shapes in the context of a coordinate
		Distance Formula	Apply and derive distance formula and determine the distance between two coordinates on the graph Apply distance formula and solve various mathematical and real-life problems graphically	plane, such as finding the distance between two given points, in order to determine coordinates of a point between any two given points, to find area of a triangle etc.
		Section Formula	Apply and derive section formula and divide the line segment in a given ratio Apply distance and section formula and determine the vertices /diagonals /mid points of given geometrical shapes	
		Area of a Triangle	Apply and derive the formula of area of triangle geometrically and determine the area of quadrilateral /triangle	
SEPTEMBER	8. Introduction to Trigonometry	Trigonometric Ratios	Describe trigonometry and study the relationship between side and angle of a triangle Define and distinguish various trigonometric	Determines all trigonometric ratios with respect to a given acute angle (of a right triangle) in order to use them in solving

	1	1		<u>, </u>
			ratios and	problems in daily life
			describe and	contexts like finding heights
			verify sine, cosine,	of different structures or
			tangent, cosecant,	distances from them
			secant, cotangent	
			of an angle	
			Use given	
			trigonometric	
			ratio(s) and find	
			and verify other	
			trigonometric	
			ratios /angles of	
			the triangle	
		Trigonometric	Compute the	
		Ratios of Some	trigonometric	
		Specific Angles	ratio 0o,30	
		Specific / trigics	0,450,600	
			and 90o and use	1
			these for different	
		Trigonometric	angles	1
		Ratios of	Compute the	
			trigonometric ratio of	
		Complementary		
		Angles	complimentary	
			angles and apply	
			the values in	
			solving contextual	
			problems	
		Trigonometric	Compute and	
		Identities	apply	
			trigonometric	
			identities and	
			simplify and solve	
			mathematical	
			problems	
SEPTEMBER	9. Some	Heights and	Identify line of	Determines all
	applications	Distances	sight and	trigonometric ratios with
	of		determine angle	respect to a given acute
	Trigonometry		of elevation and	angle (of a right triangle) in
			angle of	order to use them in solving
			depression	problems in daily life
			Apply	contexts like finding heights
			trigonometric	of different structures or
			ratios (of specific	distances from them.
			angles) and	
			determine heights	
			and distances of	

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			the objects in the	
			real-life context.	
OCTOBER	10. Circles	Tangent to a	Draw, identify and	-
00.052	201 011010	Circle	differentiate	
		Circic	between secant	
			and tangent of a	
			circle and prove	
			and apply various	
			theorems related	
			to circles	
	-	Number of		
			Prove and apply	
		Tangents from	theorems related	
		a Point on a	to tangent of a	
		Circle	circle and	
			determine	
			number of	
			tangents from the	
	<u> </u>		given point(s)	
			Prove and apply	
			theorem related	
			to tangent of a	
			circle and	
			determine length	
			of the tangent	
OCTOBER	11.	Division of a	List and execute	Examines each step and
	Constructions	Line Segment	steps of	reasons out each step, in
			construction and	order to:
			divide a line	
			segment in a given	
			ratio	
		Construction of	List and execute	A) Construct a triangle
		a similar	steps of	similar to a given triangle
		triangle	construction and	as per a given scale
			construct a similar	factor.
			triangle as per a	
			given scale factor	
		Construction of	List and execute	B) Construct a pair of
		Tangents to a	steps of	tangents from an external
		Circle	construction and	point to a circle and justify
			construct	procedures
			tangent(s) to a	·
			given circle	
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NOVEMBER	12. Areas	Perimeter and	Describe the	-
	related to	Area of a Circle	relationship	
	circles	— A Review	between	
			circumference and	
			diameter of a	
			circle and define Π	
			Apply the	
			concepts of	
			circumference and	
			area of and solve	
			in for various	
			circular objects in	
			real life	
		Areas of Sector	Describe sector	
		and Segment of	and segment of a	
		a Circle	circle and	
			differentiate	
			between the two	
	_		Describe minor	
			and major sector	
			of a circle and	
			differentiate	
			between the two	
			Describe minor	
			and major	
			segment of a circle	
			and differentiate	
			between the two	
			Apply the formula	
			of area of sector	
			and segment of a	
			circle, and	
			compute the area	
			of a specified	
			region	
			Calculate the	
			length of an arc of	
			a circle and	
			comment whether	
			it is the major arc	
			or minor	
			OI IIIIIIOI	
			arc	
		Areas of	Calculate the area	
			of various	
1			combinations of	
			232	

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		Combinations	plane figures and	
		of Plane Figures	apply the concepts	
			of circles,	
			quadrilaterals and	
			triangles	
NOVEMBER	13. Surface	Surface Area of	Apply formulae of	Visualizes objects in
	areas and	a Combination	surface area of	surrounding as a
	volumes	of Solids	different 3D solids	combination of different
			and derive the	solids like cylinder and a
			surface area of	cone, cylinder and a
			combination of	hemisphere, combination of
			these solid objects	different cubes etc.in order
		Volume of a	Apply formulae of	to find their surface areas
			volume of	and volumes
			different 3D solids	
			and derive the	
		0 11 11 6	volume of the	
		Combination of	combination of	
		Solids	these solid objects	
	_	Conversion of	Combine different	
		Solid from One	solid shapes to	
		Shape to	create a new solid	
		Another	form	
	_	Frustum of a	Apply the formula	
		Cone	of surface area of	
		Cone	a cone and derive	
			the total surface	
			area of the	
			frustum	
	_		Apply the formula	
			of volume of a	
			cone and derive	
			the volume of the	
	-	Applications	frustum	
		Applications of	Use concepts of	
		surface areas	surface areas and	
		and volumes	volumes for	
			variety of 3-D	
			objects and apply	
			them into real life	
			situations	
DECEMBER	14. Statistics	Mean of	Apply direct	Calculates mean, median
		Grouped Data	method and	and mode in order to apply
			calculate the	them to real life contexts
			mean of the	
			grouped data	

	1	T		
			Apply assumed	
			mean method and	
			calculate the	
			mean for a	
			grouped data	
		Mode of	Compute the	
		Grouped	mean and mode of	
		0.00.00	the given data	
			8	
		Data	and interpret	
			these two	
			measures of	
			central tendency	
	1	Median of	Apply formula for	
		Grouped Data	the median of a	
		Groupeu Data	given grouped	
			data and calculate	
			missing values of	
	-	Maan madian	frequency Differentiate	
		Mean, median		
		and mode	between mean,	
			median and mode	
			with examples and	
			use most effective	
			measure of central	
			tendency in	
			various cases	
		Graphical	Derive the co-	
		Representation	ordinates to plot a	
		of Cumulative	graph and	
		Frequency	represent the two	
		Distribution	ogives	
			Graph both ogives	
			for the data	
			obtained and	
			determine the	
			median of the	
			given grouped	
			data	
DECEMBER	15.	Probability — A	Differentiate	Calculates and determine
	Probability	Theoretical	between Empirical	the probability of a given
		Approach	Probability and	event
			Theoretical	
			Probability and	
			find the two for a	
			variety of cases	

		Calculate the probability of given events in an experiment and comment whether they are Complementary Events /Sure Events /Impossible Events Represent using organized lists, tables, or tree diagrams and list the sample space for compound events Calculate the probability of various events and rank them from most to least probable events.
JANUARY	REVISION	
FEBRUARY	REVISION	
MARCH	FINAL EXAM	

Month	Topics	Methodology /activities	Learning objectives	Working days
April	Electricity * introduction to electric current *electric potential and potential difference *circuit diagram *Ohm's law *factors on which resistance of a conductor depends	Giving an example deduce the definition of an electric circuit *show them the devices like key,battery, resistor, voltmeter and ammeter etc and explain the role of each of them in an electric circuit *demonstration for the variation of V with I *explanation * small video asking appropriate question *discussion	the students will be able to *define an electric circuit, electric current electric potential resistance resistivity * read ammeter and voltmeter* *deduce Ohm's law experimentally. *Solve numerical problem related to current, potential differential, resistance. *distinguish between resistance and resistivity. * relate how resistance varies with length area of cross section and nature of material of the conductor *identify the various components of the electric circuit *appreciate the role of various devices in an electric circuit *draw a circuit diagram *make electric circuit	4
May	* resistance of system of resistors *heating effect of electric current * electric power	* demonstration of series and parallel combination of resistance *discussion on students observation *appropriate questioning *explanation *questioning *deduction *problem solving	*role of resistor in a circuit * role of fuse in a domestic circuit *joules law of heating effect of electric current. *relation between the commercial unit and SI unit of electricity. *electrical energy consumed in a domestic circuit(calculate the bill of electricity consumed in a household)	4

June	Magnetic effects of electric current *magnetic field *field lines* field due to the current carrying conductor *field due to the current carrying coil and solenoid *force on a current carrying conductor *Fleming's left hand rule	*small video or demonstration and deductive approach for various activities. * deflection of compass needle on passing an electric circuit through a metallic conductor. * aligning of iron filings near the bar magnet. * field lines around a bar magnet. * magnetic field lines of a field produced by a current carrying straight conductor, circular loop and solenoid. * discussion * appropriate questioning * explanation	* properties of magnet * the relation of electric current and magnetism. *Direction of force in magnetic and electric field	4
July	*electric motor. *electromagnetic induction. *electric generator. *domestic electric circuit	* explanation of various component of electric motor and electric generator. * explanation of electric motor using a small video *Explanation of induction of electric current by changing the magnetic field. *A video related to the production of current in a generator. * schematic diagram of common domestic circuit	*Students will understand the principle of an electric motor, electric generator. * factors related to the production of magnetism and current. *Various sources for direct current and alternating current. *Safety measures used in electric circuits and appliances. *Precautions to avoid the overloading	8

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August	Sources of energy. Fossil fuels. Thermal power plant .Hydro power plant. Biomass. Wind energy. Solar energy Tidal energy Wave energy Ocean Thermal Energy Geothermal energy Nuclear energy Environmental consequences	*Discussion on students observation. *Asking questions. Collection of data for the various types of energy. *A model to demonstrate the process of thermoelectric production. *Schematic view of a hydropower plant and biogas plant. *Explanation of various types of energy. *Discussion of the various types of energy. *Students to be divided into groups and name the groups according to the sources of energy. Each group will explain completely about that source of energy. *Deduction	Student will understand the importance of source of energy. *Criteria to consider to categorise something as a good fuel. *How various types of energy is produced. *Advantages and limitation of various types of energy. *Designing using low cost material. *Steps to reduce energy consumption	8
September	Light- reflection and refraction. Reflection of light. Spherical Mirrors. Representation of image formed by spherical mirror using ray diagram. Uses of concave mirror and convex mirror.	Recapitulation of laws of reflection of light. Explanation and the demonstration of various types of mirror using spoon. Explanation of various terms related to Mirror. Teacher will illustrate how to draw a ray diagram.	Student will understand how the light reflect in different types of mirror. Type of mirror to be used . Learn different terms related to mirror Student will learn to calculate the image distance, object distance. And magnification.	8

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October	Mirror formula and magnification Refraction . Refraction through a rectangular glass slab. The refractive index. Refraction by spherical lens. Image formation in lens using ray diagram. Lens formula and magnification. Power of a lens	Explain the rules to follow to draw the ray diagram. Discussion. Deduction. Questioning. Problem solving Demonstration of refraction . Explanation of various optical phenomena in nature. Demonstration of light through a rectangular glass slab. Explanation of the rules to follow to draw a ray diagram in a lens. Illustrate how to draw a ray diagram through a lens. Discussion. Questioning. Problem solving for refractive index and the lens. Magnification. Explanation of power of the lens. Calculation of power of a lens and the power of combination of two or more lenses.	Students will understand various phenomena taking place in nature. What type of lens to be used . Students can calculate the power of a lens	8
November	Human eye and	Explanation of various	Student will know the	8

	the colourful	parts of eye using a	importance of each part of	
	world.	diagram or a model.	the eyes and its function.	
	The human eye.	Discussion on power of	Why a person can see near	
	The numan eye.	accommodation.	object as well as far object.	
	Power of	accommodation.	Object as well as fai object.	
	accommodation.	Questioning about	Why defect is caused and	
	Defect of vision	various defects of eye.	the reason behind it.	
	and their	,		
	correction.	Explaining the defect	What happens when a Ray	
		and correction using	of light passes through the	
	Refraction of light	ray diagram.	prism.	
	through a prism.	Explaining and		
	Dispersion of	demonstrate the		
	white light by a			
	glass prism.	refraction of light through a prism and		
	giass prisiri.	cause of dispersion.		
		cause of dispersion.		
		The teacher will		
		illustrate how to draw		
		the ray through a prism		
December	Atmospheric	Asking appropriate	Student will understand the	4
2 000111001	-			7
2 0001111001	refraction and	question related to the	reason for the formation of	7
	-		reason for the formation of rainbow, conditions that has	7
	refraction and	question related to the rainbow formation.	reason for the formation of rainbow, conditions that has to be followed to form	7
	refraction and	question related to the	reason for the formation of rainbow, conditions that has	7
	refraction and	question related to the rainbow formation.	reason for the formation of rainbow, conditions that has to be followed to form rainbow.	7
	refraction and	question related to the rainbow formation. Demonstration	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the	reason for the formation of rainbow, conditions that has to be followed to form rainbow.	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,.	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,.	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star.	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And and explain them with	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And and explain them with the help of a diagram.	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And and explain them with the help of a diagram. Explaining tyndall effect	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And and explain them with the help of a diagram. Explaining tyndall effect and why the colour of	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
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	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And and explain them with the help of a diagram. Explaining tyndall effect and why the colour of clear sky is blue and the	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	
January	refraction and	question related to the rainbow formation. Demonstration Explaining the formation of rainbow,. Asking question about twinkling of stars,. Advance sunrise and delayed sunset. And and explain them with the help of a diagram. Explaining tyndall effect and why the colour of clear sky is blue and the colour of sunrise and	reason for the formation of rainbow, conditions that has to be followed to form rainbow. The phenomenon behind twinkling of star. The scientific reason behind	

SUB	IECT	:	CHEMIST	'RY
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Month	Topic	Methodology /activity	Learning outcome	Working days
April	Chapter -1 chemical reactions and equations. • chemical changes. • features of chemical changes. • Equation for chemical reaction. • writing word equations. • writing symbol equations . • Balancing of chemical equations • How to make chemical equation more informative • .Information conveyed by a balanced chemical equation . • Information not conveyed by chemical equations	•Lecture and demonstration method •PPT •use of whiteboard for writing chemical equations. •Interactive application •explanation method	Students will be able to •understand what is meant by a chemical reaction •construct balanced chemical equations to represent reactions. •construct chemical equation •students are able to write word equation •illustrate information conveyed by chemical equation.	4 periods
May	Chapter -1st chemical reactions and equations. •Types of chemical reactions •combination reaction •Decomposition reaction •Displacement reaction • Double displacement reactions•oxidation reduction reaction	 Presentation method lecture and demonstration method. Using whiteboard to explain different reactions Discussion forum activity 	 Students will be able to identify different types of reaction. How is rust formed on the surface of iron objects. identify the substance oxidized and the substance reduced in the reaction. 	4 periods

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	Redox reactioncombustion reactioncorrosion andrancidity			
June	Chapter- 2 Acids bases and salt Definition of acids and bases. Properties of acids. Strong and weak acids. uses of mineral acids in industry. properties of bases. strong and weak bases. Dilution of acid and base solution How do acids and bases mutually react. Practical application of neutralization.	Lecture and demonstration method. •showing citrus fruit to explain the presence of acid. •showing vinegar to explain acid. •showing and tasting baking soda to explain base. PPT	Students will be able to- •Understand the strength of an acid (or base) as determined by the percent of ionization in solution. •Identify strong and weak acids and bases. •Define acids and and bases .•Investigate the reaction of non-oxidizing acids with metals ,carbonates and hydrogen carbonates and bases . •Discuss the strength of acids and alkalis on the basis of their completeness of ionization. •Illustrate dilution of	8 periods
July	Chapter,- 2 acids bases and salt. •The pH scale •universal indicator paper for PHvalue •Importance of PH in daily life •Definition of salt •Classification of salt. •classification based on chemical formula. •classification based on PH value •.classification based	Lecture and demonstration method •PPT •showing common salt •Presentation method	acids. Students will be able to Explain importance of PH in daily life. Classify different kind of salt. Identify formula of salt. identify the acid and the base present in	8 periods

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	on family of salt •preparation of salt •chemicals from common salt washing soda ,caustic soda baking soda ,bleaching powder, plaster of paris ,hydrated salt		the salt. •write chemical equations for the preparation of salt. •Detect the water of crystallization present in salt	
August	Chapter -3 metals and non-metals. Metals ,physical properties of metals ,non-metals ,physical properties of non-metals ,chemical properties of metals ,chemical properties of non-metals, How do metals react with non-metals? ,properties of ionic compound ,occurrence of metals, extraction of metals , refining of metals ,corrosion	Lecture and demonstration method • presentation method • PPT • showing some metals like iron silver ,copper to explain the properties of metals. ,• activity to show rusting process on iron objects	Students will be able to •Demonstrate metals and nonmetals •Compare properties of both metals and non-metals. •Identify metals and non-metals from the given samples • Tabulate the reactivity series of metals. •Correlate valency and type of bond formed. • Draw schematic diagrams for ionic compounds. •Demonstrate properties of ionic compounds. •Compile the metals and soluble salts from earth's crust and sea water •Compare minerals and ores.	8 Periods
			steps in the extraction of metals.	

SUBJECT : CHEMISTRY

SUB	IECT	:	CHEMISTRY

			Choose different	
			separating techniques	
			for the ores.•Apply	
			conceptual and	
			experimental	
			knowledge of metals	
			in daily life.•	
			Demonstrate the	
			activity performed to	
			show corrosion.	
			Identify the factors	
			responsible for	
			corrosion.•various	
			methods to prevent	
			corrosion.	
			6011631611.	
September	Chapter -4 carbon and	Online lecture and	Students will be able	8 -periods
	its compounds.	discussion forum	to	
		activity.	1.6	
	Bonding in carbon -	207	•define the term	
	covalent bond	PPT	tetravalence and	
	• properties of	Activities related	catenation.	
	covalent compounds	to the topics.	•list the physical	
	'	,	properties of carbon.	
	•allotropic form of	Discussion forum		
	carbon	Interaction	•state why is carbon	
			a special element.	
	•carbon an essential •constituents of all	application	adofino the alletrony	
			•define the allotropy	
	organic compound		•list main allotropes	
	•versatile nature of		of carbon and	
	carbon .		distinguish between	
			the properties of	
	•catenation •organic		allotropes	
	compounds •closed		·	
	chain compounds		•predict what	
	•functional groups		happens when carbon	
	- Turicuoriai groups		dioxide with common	
	•Homologous series.		elements	
			•identify different	
			functional group.	
			Tanotional Broup.	
October	Chapter- 4 carbon and	Online lecture and	– students will be	7 periods
	its compound	discussion forum	able to	
	a Niema ow elektrone in C	activity	annita II IDAC	
	Nomenclature of		•write IUPAC names	
	open chain compound			

ANNUAL PEDAGOGICAL PLAN - CLASS X		SUBJECT : CHEMISTRY		
	and important families of organic compounds •chemical properties of carbon compounds •some important organic compounds - ethanol, ethanoic acid soaps and synthetic detergents.	Mini lecture Interaction application PPT	of different organic. compounds •Explain uses of ethanol and acetic acid. •Identify chemical nature of soap and detergent •Discuss difference between soap and detergent	
November	Chapter 5 periodic classification of elements. • Dobereiner's Triads • Newlands law of Octaves • Mendeleev periodic table • defect in Mendeleev periodic table • modern periodic law.	Discussion method Explanation method Mini online lecture PPT	Students will be able to •Understand about the importance of classification of elements •State the Dobereiner's law of classification •Understant the Dobereiner's traid its advantages and disadvantages •State the Newland's Octave law •Understand the Newland law of classification, its advantages and disadvantages •Understand the Mendeleev's periodic classification . •Understand the properties of Mendeleev's periodic	7 periods

table, its merits and

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			demerits.	
			•State the modern	
			periodic law	
December	Chapter 5 periodic	Online lecture and	Students will be able	7 -periods
	classification of	discussion forum	to	
	element	activity	•Understand the	
	•Modern Periodic	Interactive	properties of modern	
	table	application	periodic table, its	
	•Advantage of the	Discussion method	merits and demerits.	
	modern periodic	Explanation	•discuss the variation	
	table .	method	of atomic size in	
	•some trends in	memod	groups and periods	
	modern Periodic table	PPT	•Explain the variation	
	like -ectronegativity		of electronegativity in	
	metallic and non-		periods and groups.	
	metallic properties of			
	elements, atomic size,			
	valency			
January	Revision of all chapters			

SUBJECT: CHEMISTRY

MONTH	UNIT/TOPIC	METHODOLGY/	LEARNING OUTCOMES	WORKING
JUNE	1.LIFE PROCESSES	ACTIVITIES GOOGLE CLASSROOM	AFTER READING THIS CHAPTER STUDENTS	DAYS
		PPT PRESENTATION	WILL BE ABLE TO ANSWER- WHAT PROCESS WOULD YOU CONSIDER	13
		LECTURE METHOD TEST GOOGLE	ESSENTIAL FOR MAINTAINING LIFE?	
	2.LIFE PROCESSES(CONT)	GOOGLE CLASSROOM	THE STUDENTS WILL BE ABLE TO EXPRESS THE MODES OF	13
		PPT PRESENTATION LECTURE METHOD TEST GOOGLE	REPRODUCTION SEXUAL REPRODUCTION IN PLANTS ASEXUAL REPRODUCTION	
JULY	CONTROL AND CO- ORDINATION IN PLANTS	GOOGLE CLASSROOM PPT PRESENTATION QUIZ LECTURE METHOD	THE STUDENTS WILL BE ABLE TO TELL ABOUT PLANT HORMONES DIFFERENT KIND OF ANIMAL HORMONES AND THEIR FUNCTION	15
	CONTROL AND CO- ORDINATION IN ANIMALS	GOOGLE CLASSROOM QUIZ PPT PRESENTATION	THE STUDENTS WILL BE ABLE TO ANSWER DIFFERENT TYPES OF PLANT MOVEMENTS PHOTORESPIRATION	23
	HOW DO ORGANISM		THE STUDENT S WILL BE ABLE	
AUGUST	REPRODUCE?	GOOGLE CLASSROOM LECTURE METHOD	TO EXPRESS-WHAT IS THE DIFFERENT TYPES OF REPRODUCTION WHAT HAPPEN IF THE EGG IS	20
		BOARD MARKER METHOD PPT PRESENTATION	NOT FERTILIZED? SEXUAL REPRODUCTION	
		ART INTEGRATED PROJECT	AND MID TERM	
SEPTEMBE	HEREDITY AND EVOLUTION	GOOGLE CLASSROOM	STUDENTS WILL BE ABLE TO ANSWER- WHY MENDEL CHOSEN PEA	20
		LECTURE METHOD PPT PRESENTATION	PLANT? HOW EVOLUTION OCCUR? WHAT IS THE IMPORTANCE OF	
		BOARD MARKER METHOD	VARIATION DIFFERENT THEORIES ON EVOLUTION	
		LECTURE METHOD	HOW FOOD CHAIN MAINTAINED ENVIRONMENT?	
OCTOBER	OUR ENVIRONMENT	PPT PRESENTATION BOARD MARKER METHOD	WHY DECOMPOSERS ARE VERY IMPORTANT IN ENVIRONMENT?	

		STUDENTS WILL BE ABLE TO	
		EXPLAIN WHY	
MANAGEMENT OF		CONSERVATION OF NATURAL	
NOVEMBEINATURAL RESOURSES	PPT PRESENTATION	RESOURSES	
	BOARD MARKER METHOD	IS NECESSARY?	
		WHAT IS SUSTAINABLE	
	GOOGLE CLASSROOM	DEVELOPMENT	

SUBJECT: BIOLOGY

DECEMBER	REVISION AND PRE BOARD 1
JANUARY	REVISION AND PRE BOARD 3

Class X, Social Science, Session 2021-22, Annual Pedagogical plan

Month	Topic	Method/Activity	Learning Outcome	Working
April	Political Science-Power Sharing	Through flowchart, map of Belgium & SriLanka, explanation through relevant examples. Taking feedback of students	Will learn the meaning of power sharing'. power sharing among legislature, executive and judiciary, need for power sharing, various forms of power sharing	Days 7 days
	Economics - Development	Explanation through examples, case studies, thought provoking questions, activities: like debate. Take feedback of students	Students will understand that people have different perspectives of development	7 days
June	History – Nationalism in India	Explanation based on student past experience,for facts images from movie Gandhi,small video from movie Gandhi	Will learn what is satyagraha.why non-cooperation, different starnds, how different communities saw civil disobedience movt. sense of collective belongingness	10 days
	Political science -Federalism	Through questions based on past experience, explanation through examples, through tables .through questions	Vertical division of power sharing is the major form of power sharing in modern times	7 days
July	Geography – Resource and Development	Activity , for classification of resources ,flowchart, activity to find distinction among different types of resources ,images of different resources, through thought provoking questions will conclude how resources are very important.	Students will easily identify different resources, classify them, can segregate and find resemblance. will know the imp of resources and sustainability of resources	10 days
	Economics- Sectors of Economy	Elaborating the ideas, also students can be familiarized with concepts like Gross domestic product,	Students will understand the sectoral classification and will learn to relate them to their daily life	10 days

		Le		I
		Employment etc		
		Taking feedback		
	_	through questions		_
August	Geography-	Explanation through	Students will know the types	12 days
	Agriculture	flowchart the types of	of farmimg, where practiced,	
		farming,map	cropping pattern,Reforms	
		pointing,images of	introduced by the Govt	
		different types of		
		crops,non food		
		crops,solving the puzzle		
	Mineral	Explanation and	Will know the study of	12 days
	Resource	elaboration of the	minerals by Geographers and	
		features and	Geologists.conservation of	
		characteristics of	minerals and Energy	
		minerals and non	resources.	
		metals through		
		interdisciplinary		
		subject{science} based		
		on past experience		
	Economics –	Explanation of how	Students will learn how new	10 days
	Money and	different forms of	forms of money are	, .
	Credit	money were used at	spreading with	
		different times ,how	computerization.	
		modern forms of		
		money linked to		
		banking system		
September	Political	Will look 3 kinds of	Students will understand	7 days
	science- Gender	social differences based	whether the different	,
	religion , caste	on gender , caste and	expressions are healthy or	
	l cingion, succe	religion	otherwise in a democracy	
	History – The	Explanation and	Students will understand	12 days
	age of	elaboration will focus	about globalisation,	,
	industrialisation	on developments that	industrialization,	
	in a distribution	can be seen as	urbanization.	
		symbolizing modernity	ar samzation.	
October	Geography-	Stimulating awareness	Will learn meaning and	12 days
Setobel	Manufacturing	by asking questions	classification of industries,	12 days
	Industries	already know,through	also will learn how to make	
	industries	debate , how it	sustainable development and	
		contributes to national	to reduce pollution	
			to reduce polition	
		economy.thought		
		stimulating questions;		
		what factors may be		
		required for the		
	D. D. J.	location of any industry	Well Land	42 !
	Political	Elaborate explanation	Will learn the need of	12 days
	science-	of the nature and	political parties, how many	

November	political parties	working of different political parties, activity on different symbols of parties, activities on slogans of different political parties	political partie needed,national parties and State parties	15 days
November	History- Print Culture	Will explain to make realize how print developed earlier and modern period is unimaginable without print	Will learn about first printed books,how print comes to Europe ,India and the world of print	15 days
	Geography- Lifelines of Indian Economy	Flow chart on means of transport,map pointing,images of border roads,questions on previous learning, feedback questions	Will learn about roadways, waterways, air ways, location of sea ports and airports	7 days
December	Political Science- Outcomes of Democracy	By asking reasonable questions ,proceed to see actual outcomes of democracy through feedback questions	Will understand accountable, responsive, legitimate govt	7 days
	Economics – Globalisation and the Indian Economy	Thought stimulating questions, activity on different brands, different logos of goods, different Mncs.	Will understand Globalisation ,integration of markets,Liberalisation,Impact of Globalisation on India	12 days
January	History – Nationalism in Europe	Questions from General to specific; based on How did the modern nation come into being. How did people begin to see themselves as one nation	Students will understand age of revolutions, Making of Germany and Italy ,Nationalism and Imperialism.	12 days

माह	<u>पाठसंख्यावपाठ का</u>	<u>वधा</u>	भाषाई कौशल	सीखने के	<u>कार्य</u>
2116		<u> </u>			
	<u>नाम</u>		व धयां	<u>परिणाम व</u>	<u>दिवस</u>
				जीवन मूल्य	
अप्रैल/मई	पाठा - पद सूरदास	काव्य	शुद्ध उच्चारण के साथ	गो पयों का कृष्ण	13/13
2021	पाठा - नेताजी का चश्मा	कहानी	सस्वर वाचन,	के प्रति प्रेम और	
	पाठ२- बालगोबिन भगत	रेखा चत्र	शब्दार्थ बताना, अभ्यास	वरह वेदना	
	व्याकरण -वाक्य भेद		कार्य कराना।	समझना उद्धव के	
	रचना के आधार पर,		व्याख्यान कौशल, सरलता	ज्ञान योग को	
	अनुच्छेद व पत्र लेखन।		से कठिनता की ओर।	समझना।	
			भाषा की शुद्धता का ज्ञान	देशभक्तों का	
			कराना गद्यांश व काव्यांश		
			से मध्यांतर मौ खक प्रश्न	देशभक्ति की भावना	
			पूछना	जागृत करना।	
			वाक्य की परिभाषा और	कल्पना शक्ति व	
			रचना के आधार पर भेद	सृजन क्षमता का	
			बताना, अनुच्छेद लेखन व	वकास करना	
			पत्र तथा पत्र के प्रकारके	कौतूहल व जिज्ञासा	
			चरणबद्ध तरीके समझाना।	का वकास करना।	
				नए वाक्यकी रचना	
				की उत्सुकता।	
जून	पाठ २-राम लक्ष्मण	काव्य	शुद्ध उच्चारण के साथ	रामचरितमानस से	15
2021	परशुराम संवाद		काव्य का सस्वर वाचन	सीता स्वयंवर	
	व्याकरण- पद परिचय		कराना।	प्रसंग समझाना।	
	संदेश लेखन		कठिन शब्दों के अर्थ	राम से वनम्रता	
			बताना अभ्यास कार्य	का धैर्य का गुण	
			करवाना। काव्यांश से	सीखना। छंद,लय,	
			मध्यांतर प्रश्न पूछ कर	तुकऔर अलंकार	
			छात्रों का मूल्यांकन	को समझना। छात्रों	
			करना। कम शब्दों में	में भाव जगत का	
			संदेश लखना समझाना।	वस्तार करना। पद	
				के	
				व्याकर णकपरिचय	
				को कम से	
				समझना। लेखन	
				कौशल का वकास	
				रचनात्मकता के	
				साथ।	

जुलाई	पाठ 3-लखनवी अंदाज	व्यंग्य रचना	पाठ के अलग-अलग	कल्पना शक्ति का	26
2021	पाठ ५- उत्साह,अट नहीं	काव्य	अनुच्छेदों को शुद्ध	वकास, भा षक	
	रही है	उपन्यास अंश	उच्चारण के साथ आदर्श	कुशलता एवं चंतन	
	कृतिका- पाठ १- माता का		वाचन कराना। अभ्यास	क्षमता का वकास,	
	अंचल		कार्य,कठिन शब्दों का अर्थ	सांकेतिक भाषा	
			लखाना व मध्यांतर	समझने की शक्ति	
			मौ खक प्रश्न पूछना।	का वकास।	
			क वता का शुद्ध उच्चारण	हिंदी की समृद्ध	
			के साथ सस्वर वाचन।	लोक	
			कठिन शब्दों के अर्थ	संस्कृतिका वकास,	
			लखाना। कृतिका के पाठ	ग्रामीण अंचल की	
			का आदर्श वाचन कराना।	सहजता, माता-	
			गद्यांश,काव्यांश से	पता के स्नेह,	
			मध्यांतर प्रश्न पूछना।	बच्चों के खेल,लोक	
				गीत आदि को	
			आव धक परीक्षा प्रथम	समझना।	
अगस्त	पाठ ४- मानवीय करुणा	संस्मरण	पाठ का शुद्ध उच्चारण के	स्मृतियों से बनने	23
			_		
2021	की दिव्य चमक		साथ आदर्श वाचन। कठिन	वाले संस्मरण के	
2021	की दिव्य चमक व्याकरण वाक्य और रस		साथ आदर्श वाचन। कठिन शब्दों के अर्थ समझाना,	वाले संस्मरण के महत्व को	
2021					
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना,	महत्व को	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति,	महत्व को समझना। फादर	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का	महत्व को समझना। फादर बुल्के का योगदान	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना।	महत्व को समझना। फादर बुल्के का योगदान समझते हुए	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार,	महत्व को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार, वाच्य परिवर्तन समझाना।	महत्व को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा जैसे गुण को	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार, वाच्य परिवर्तन समझाना। रस की परिभाषा, प्रकार	महत्य को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा जैसे गुण को समझना। अर्थ	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार, वाच्य परिवर्तन समझाना। रस की परिभाषा, प्रकार और उदाहरण समझाना।	महत्य को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा जैसे गुण को समझना। अर्थ ग्रहण करने की	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार, वाच्य परिवर्तन समझाना। रस की परिभाषा, प्रकार और उदाहरण समझाना। अपठित बोध हल करना	महत्व को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा जैसे गुण को समझना। अर्थ ग्रहण करने की योग्यता का वकास	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार, वाच्य परिवर्तन समझाना। रस की परिभाषा, प्रकार और उदाहरण समझाना। अपठित बोध हल करना	महत्य को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा जैसे गुण को समझना। अर्थ ग्रहण करने की योग्यता का वकास करना। स्मृति क्षमता का वकास करना। ता कंक	
2021	व्याकरण वाक्य और रस		शब्दों के अर्थ समझाना, रचना और अ भव्यक्ति, मध्यांतर प्रश्नों से छात्रों का मूल्यांकन करना। वाच्य की परिभाषा, प्रकार, वाच्य परिवर्तन समझाना। रस की परिभाषा, प्रकार और उदाहरण समझाना। अपठित बोध हल करना	महत्व को समझना। फादर बुल्के का योगदान समझते हुए मानवीय करुणा जैसे गुण को समझना। अर्थ ग्रहण करने की योग्यता का वकास करना। स्मृति क्षमता का वकास	

सतंबर	पाठ६- यह दंतुरित	काव्य	श्द्ध उच्चारण के साथ	छोटे बच्चे की	24
2021	मुस्कान, फसल	कहानी	क वता का सस्वर	मनोहारी मुस्कान	
	कृतिका		वाचन।कठिन शब्दों का	के प्रभाव को	
	पाठ 2- जॉर्ज पंचम की		अर्थ समझाना। रचना और	समझना, सुंदरता व	
	नाक		अ भव्यक्ति के साथ	कोमलता के भावों	
	वज्ञापन लेखन		मध्यांतर मौ खक	को समझना,	
			प्रश्नपूछना।	मुस्कान में छिपे	
			कृतिका के पाठ का आदर्श	जीवन संदेश को	
			वाचन कराना। व्याख्यान	समझना कृष	
			कौशल से पाठ को	संस्कृति को	
			समझाना मध्यांतर प्रश्न	समझना	
			पुछना।	सता से जुड़े लोगों	
			्र्र ^ठ ा। वज्ञापन बनाने के प्रारूप	की गुलाम	
			को समझना वसी मत	का गुलाम मान सकता व	
			शब्दों में वज्ञापन को	वदेशी आकर्षण को	
			अकर्षक बनाने की कला		
				समझना।	
			को समझना।	रचनात्मकता व	
			<u>आव धकपरीक्षा द् वतीय</u>	कल्पना शक्ति का	
2		2		वकास।	23
अक्टूबर 2021	पाठ ५- एक कहानी यह भी	आत्मकथ्य	पाठ के अलग-अलग	हिंदी साहित्य की	25
2021	पाठ७-छाया मत छूना	काट्य	अनुच्छेदों का शुद्ध	वधाओं का ज्ञान।	
	व्याकरण- वाक्य भेद		उच्चारण के साथ आदर्श	आत्मकथा शैली का	
	संदेश लेखन		वाचन। अभ्यास	ज्ञान। कशोर	
			कार्य,कठिन शब्दों के अर्थ	जीवन में मन पर	
			लखाना।	पड़ने वाले भावों	
			काव्यकासस्वर शब्द	को समझना।	
			वाचन। कठिन शब्दों के	आजादी के लए	
			अर्थ, रचना और	उत्साह, ओज व	
			अ भव्यक्ति।गद्यव काव्य से		
			मध्यांतर प्रश्न पूछना छात्रों	तरीके समझना।	
			का मूल्यांकन करना।	अतीत की स्मृतियों	
			वाक्य भेद समझाते हुए	को भूल वर्तमान में	
			वाक्य परिवर्तन समझाना,	जीना सीखना,	
			आ श्रत उपवाक्य भी	भ वष्य को वरण	
			समझाना।	करना। काव्य	
			संदेश लेखन की वशेषताएं	सौंदर्य बोध का	
			समझाते हुए उ चत प्रारूप	वकास।	
			में लखना सखाना।	सृजन शक्ति का	
				वकास। सं क्षप्त व	

		<u> पग्या।- प्रा</u>		T .	1
				तथ्यपरक लेखन	
				क्षमता का वकास।	
नवंबर	पाठ७-नौबत खाने में	व्यक्ति- चत्र	शुद्ध उच्चारण के साथ	पाठ की मूल	20
2021	इबादत	यात्रा- वर्णन	आदर्श वाचन।	वशेषता को	
	कृतिका पाठ 3-साना साना		व्याख्यान कौशल के साथ	समझना लक्ष्य को	
	हाथ जोड़ि		शब्दार्थ लखाना, रचना	पाने के लए	
			और अ भव्यक्ति, भाषा	साधना, लगन,रु च	
			अध्ययन के साथ-साथ	आदि गुणों का	
			मध्यांतर मौ खक प्रश्न	वकास। भाषा शैली	
			पूछना, छात्रों का	को समझना, शुद्ध	
			मूल्यांकन करना।	भाषा का	
			यात्रा वर्णन को सरलता से	ज्ञान,मात्राओं का	
			कठिनताकी ओर ले जाते	ज्ञान होना।	
			हुए समझाना, हिमालय के	यात्रा के अनुभवों	
			पल-पल बदलते सौंदर्य,	को शब्दबद्ध करना	
			दुर्गम रास्तों के निर्माण,	सीखना, भन्न-	
			जलवायु, वहां की संस्कृति	भन्न भाषा व	
			को समझाते हुए मध्यांतर	संस्कृति का ज्ञान	
			प्रश्न पूछना।	होना। उत्सुकता,	
				आश्चर्य के भाव	
				जागना।	
दिसंबर	पाठ ८- कन्यादान	काव्य	काव्यका शुद्ध उच्चारण के	क वता के कथ्य	26
2021	पाठ ९-संगतकार	काव्य	साथ सस्वर	को समझना।	
	व्याकरण- वाच्य		वाचन।अभ्यास कार्य और	मां द्वारा बेटी को	
	अनुच्छेद एवं पत्र लेखन		कठिन शब्दों के अर्थ	दी जाने वाली	
			लखाना,रचना और	शक्षा को समझना।	
			अ भव्यक्ति	स्त्रीजीवन की	
			पाठेतरस क्रयता के साथ-	कठिनाई को	
			साथ मध्यांतर मौ खक	समझना,समाज में	
			प्रश्न पूछ कर छात्रों का	स्त्रियों के लए की	
			मूल्यांकन करना।	गई व्यवस्था को	
			वाच्य, भेद सहित	समझना।	
			समझाकर वाच्य परिवर्तन	समाज व इतिहास	
			समझाना।	केअनेक सफल	
			कसी वषय पर संक्षेप में	नायकों के साथ	
			वचार व्यक्त कर	देने वाले संगतकारों	
			अनुच्छेद लेखन	का महत्व	
			समझाना।	समझना।	
			पत्र लेखन के सभी चरणों	कल्पना शक्ति,	

		को क्रमबद्ध तरीके से	सृजन क्षमता और
		समझाना। पाठ्यक्रम	लेखन क्षमता का
		समाप्त	वकासकरना।
		आव धक परीक्षा तृतीय	
जनवरी	संपूर्ण पाठ्यक्रम	संपूर्ण पाठ्यक्रम की	
2022	,	पुनरावृति ल खत एवं	
		मौ खक प्रश्न कराते हुए	
		करवाई जाएगी।	
		<u>प्री बोर्ड परीक्षा</u>	
फ़रवरी	संपूर्ण पाठ्यक्रम	वा र्षक परीक्षा के लए	
2022		संपूर्ण पाठ्यक्रम की	
		पुनरावृ त कराते हुए	
		तैयारी कराई जाएगी।	

MONTH	TOPIC	METHODOLOGY/ ACITIVITIES	LEARNING OUTCOMES	WORKING DAYS
	प्रथमः पाठः-	पर्यावरणम् कृते	पर्यावरणम् कृते प्रेम	
अप्रैल	शुचिपर्यावलणम् ।	जनजागरणम्।	प्रदूषण निवारणार्थ,	
	व्याकरण- प्रत्यय ।	वृक्षारोपणम् कार्य	संरक्षणार्थक कार्य।	
		महत्तवम्।	प्रत्यय संयोगे शब्द	
		प्रत्यय महत्वम्एवम्	रचनाअभ्यासः	
		भेद ज्ञानम्।	तदभव , तत्सम	
			शब्दानाम् परिचयः।	
	द्रितीयः पाठः- बुद्धि	स्त्री बुद्धि	उपसर्गप्रयोगे शब्द	
मई	बलवतीसदा ।	कौशलःमहत्वः, कथा	रचनाअभ्यासः	
	व्याकरण - उपसर्ग ।	सार अभ्यासः।	शुकसप्ततिः कथा सार	
			1	
	तृतीयः पाठः- व्यायामः सदा	वर्तमान समये	गद्यांश संधि महत्वम्	
जून	पथ्य। ।	व्यायामः ,योगाः	1	
	व्याकरण- संधि, धातुरुप,	महत्वम्।	स्वर व्यंजन वण	
	शब्दरचना ।	शल्यचिकित्सा याः	ज्ञानम् ।	
		प्राधान्यः अस्ति ।	धातुरुपाणि शब्द	
		शरीर माधम् खलु	रुपाणि अभ्यासः।	
		धर्मसाधनम् ।		
	चतुर्थः पाठः- शिशु लालनम्	सस्वर लव कुश	रामायण कथा ज्ञानम्	
	1	कथा वाचन।	1	
जुलाई	पंचमः पाठः- जननी तुल्य	पितृ प्रेमः जीवनै	गौ मातृत्व चर्चा ।	
	वत्सला PT - 1	अति आवश्यकः।	गोमाता सुरभि इन्द्	
		मानवीय मूल्यः	संवाद अभ्यासः।	
		पराकाष्ठा।	संवाद कला अभिनय	
		जीवने संतति प्रति	ज्ञानम् ।	
		समानप्रेमः एवम्		
		निरबलः संतति		
		प्रति। श अतिश्य		
		प्रेम ।		
	षष्ठःपाठः- सुभाषितानि ।	श्लोक वाचन अभ्यासः	वाचन कौशल	
	सप्तमः पाठः- सौहार्द प्रकृतेः	1	अभ्यासः ।	
अगस्त	शोभा ।	मननात् त्रायते इति	उद्धमस्य महत्तवम् ।	
	व्याकरण- वाच्य ।	मंत्रः अर्थः।		

SUBJECT: SANSKRIT

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		सौहार्दपूर्ण जीवने	श्लोक अन्वयः	
		महत्वम्।	अभ्यासः ।	
		प्रकृतिसुरक्षा, वन्य	नाट्य कला अभ्यासः	
		जीव प्रति स्नेहः,	प्रकृति दर्शनम् ।	
		प्रकृति सौदर्यीकरण		
		कृते कार्यः।		
सितम्बर	परीक्षा, PT-2 पुनरावृत्ति ।	परीक्षा ।	परीक्षा कार्यः ।	
	अष्टमः पाठः- विचित्रः साक्षी	न्यायो भवति	साहित्यकार	
अक्टूबर	1	प्रमाणाधीनः।	बंकिमचन्द्र चटर्जी	
	नवमः पाठः- सूक्तयः ।	सव सत्य ज्ञात्वा	जीवन परिचयः ।	
	दशमः पाठः- भूकम्प	साक्ष्य प्रतुतवान् ।	सत्यखसत निर्णय	
	विभीषिका।	असंभव कार्याणि	हेतु साक्ष्य	
		अपि सरलतया	महत्वपूर्णः ।	
		कुवन्ति।	न्यायालयः निर्णयः	
		सदाचारः, विद्याधनम्,	सवॉमान्य ।	
		मधुरावाकः, विद्वासः		
		जीवने महत्वम् ।		
		प्राकृतिक आपदा		
		ज्ञानम् सुरक्षा एवम्		
		उपायः।।		
	एकादशः पाठः- प्राणेभ्यो	परोपकारःश्रेष्ठ धर्मः ।	सस्वर वाचन कौशल	
नवम्बर	अपि प्रिय सुहृदय ।	ऐतिहासिक पात्र	1	
	दादशः पाठः- अन्योक्तः ।	परिचयः।	पर्यावरण संतुलन	
	व्याकरण- समास ।	कवि परिचयः।	कृते प्रयासः ।	
		प्रशंसा निंदा माध्मेन	आपदा काले सहयोग	
		जीवने संदेशः।	कृते तत्परः।	
दिसम्बर	पत्र लेखनम्, चित्र से वाक्य	ऋषिकुल	चाणक्य विद्वता	
	रचना, वाक्यं संशोधन,	परम्परयांज्ञान प्राप्तेः।	परिचयः ।	
	अपठित अंश का अभ्यास ।	परिप्रश्न	वाचन कौशल	
	PT-3	एकम्अन्यतम्	विकासः राजहंस,	
		साधनम् शिक्षा मार्गे।	कोकिलः, मेध,	
			मालाकार, सरोवरः,	
			चातकेन, माध्मेन	
	1	I	1	

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			सत्कर्म कृते संदेशः।	
			1	
	पुनरावृत्ति/ प्री-बोर्ड परीक्षा ।।	व्याकरणम् कौशलः	व्याकरणम्- कौशलः	
जनवरी 2022		अभ्यासः ।	अभ्यासः	
फरवरी	पुनरावृति, परीक्षा,			

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