	MAHATMA GANDHI MISSION PRIMARY & SECONDARY SCHOOL ENGLISH MEDIUM ANNUAL PEDAGOGICAL PLAN AND CURRICULUM							
		ACADEMIC YEAR 2023-24	CLASS 12	SUBJECT - ENGLISH				
SR.N O.	LESSON	LEARNING OUTCOMES	RESOURCE MATERIAL/E CONE	ACTIVITY/PROCESS	COMPETENCY	ART INTEGRAT ION		
1)	1) The last lesson 2) My mother at sixty six	To develop sensitivity towards self understanding , understand the importance of mother tongue/undestand reality of life	see chapter cut Diksha app from	Understand language importance and learn see the reality of life	Language skills			
2)	1)Lost spring 2) Listening skills3) The Third Level	To undertand what is poverty and think about it how poverty snacked childhood, To understand Importance of listening skills see the past how fast life was good/happy/peaceful		do something to reduce the poverty. Help poors Understand their problem	listening skills			
			Periodic Test 1			-		
3)	1) Deep Water	To learn how fear hamper our personality because of only tear we leave away from happiness		By practicing poverty we can overcome our fear and become happy				
	 An Elementary school classroom or a slum 	Understand poverty how poverty snatched childhood		Help poor and understand their problems Daily writing	Writing skills			
4)	Keeping Quiet	To develop mindfullnesss importance of silence Think more about self and others		Help other feeling to be understood				
	2) Reading skills	To develop reading skills understand importance of reading skills		Read more passage and understand	reading skills			
		Revi	sion Half Yearly Exam					
5)	1) The Raltrap	Understand life's problems how good person can		live with good persons				
	2) The Enemy	Understand values How human values are more		develop human values as				
6)	1) A Thing of Beauty	Understand real beauty Understand nature		Visit to Nature develop real beauty	Draw Picture of Nature			
	Should Wizard Hit Mommy	Understand imagination						
7)	1) Indigo	Understand Mahatma Gandhi's work and		read biography/				
	2) Aunt Jennifer's Tigers	Understand efforts of life. Life is not smooth		work hard for good life develop work habit	visit such site			
8)	1) On the Face of it	Understand disappointment and loneliness and physically impaired person		To help such persons to develop them	visit such school			
	2) Evans Tries An O-Level	Understand how criminals are one step ahead of the jail authorities						

Mahatma Gandhi Mission Primary & Seconday School Phase – II, Sector – 8, Nerul, Navi Mumbai VEAP DI AN 2022 2024							
STD: -	хп	ATICS Teacher: - Mrs. Supriv	a G Dunde				
MONT H	WEE K	NO. OF DAYS	LESSON	торіс	Activity		
	1 1 2 5 3 4 3.Ma		3.Matrices	Order of matrix , Types of matrices,Equality of Matrices, Operation on matrices, Properties of matrix of addition and Scalor Multiplication ,Miltiplication of Matrices,Transpose of matrix,Symmetric and skew symmetric matrices	Class Intraction and Discussion		
APRIL	4	5	4.Determinant	Determinant of matrix of order 2,Determinant of matrix of order 3×3 , Area of a triangle, Minors and cofactors,adjoint and inverse of a matrix	Class Intraction and Discussion		
	5	6	12.Linear Programing	12.Linear Programing Programing			
	2	6		Continuity,Algebra of continuous , Differentiability , Derivatives of composite			
	3	6	5.Continuty and	functions, Chain rule, Derivtives of implicit functions, Derivatives of inverse trignometry	Class Intraction		
	4	5	Diffrentiability	functions, Exponential and Logarithmic functions, Logarithmic Differentiation, Derivatives of functions in parametric forms, Second order derivative	and Discussion		
JUNE	5	5	1. Relation and Fnctions	Types of relations, Types of functions,Binary operations	Class Intraction and Discussion		
	1	1		JULY PERIODIC TEST 1st JULY TO 7th JULY			
	2	6 6					
JULY	4	6	1 4 777	Direction cosines and Direction ratios of a			
	5	5	11.1hree Dimensional Geometry	line, Equation of a line in space,Shortest distance between two line, Distance between parallel line	Class Intraction and Discussion		
	1	5					
	2	6		Types of Vesters A differ any traction			
	3	4	10.Vector Algebra	Multipliaction of Vectors, Addition of Vectors, Multipliaction of Vector by Scalor, Vector joining two point, Section formula, Product of two vectors, Vector product of two vectors	Class Intraction and Discussion		
AUGUST	4	6	 				
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	5	3	9.Differential Equations	Basic concepts, General and Particular Solutions of a Differential Equations, Methods of Solving First Order,First Degree Differential Equations.	Class Intraction and Discussion	
	1	2				
	2	5		Term -1 Theory & Practical Exam		
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	2	C				
	3	0				
eptembe	4 1BE		6.Application of Derivatives	Rate of change of Quantities, Increasing and Decreasing Functions, Maxima and Minima	Class Intraction and Discussion	
	5	5	2.Inverse Trignometric Functions	Basic concepts, properties of inverse trigonometric functions	Class Intraction and Discussion	
	1	5				
	2	6	ļ		Class Intraction and Discussion	
october	3	6	7.Integrals	Methods of integration, integrals of some Particular functions, integration by partial fractions,		
DCTOBE						
	4	5				
	5	2	8.Application of Integrals	Area under simple curves, area between two curves	Class Intraction and Discussion	
ovembe	1	4	13.Probablity	Conditional probability, Multiplication theorem on probability, Independent events, Bayes theorem	Class Intraction and Discussion	
	2	4				
	<u>3</u> ⊿	0		DIWALI VACATION		
	+	0				
	5	3		Devision and Sample non- Salving		
	4	2	1	Revision and Sample paper Solving		
	1	2				
DECEMP	2	6		Preboard Exam I		
DECLIVIE	3	6				
	4	5		Revision and Sample paper Solving		
IANUARY	1	6				
	2	6		Preboard Exam_II		
	3	5	Board Practical Exam			
	4	6	Board Practical Exam			
	1	3		Preboard Exam _II		
	2	3]			

EBRUAR	3	6	Revision and Sample paper Solving			
	4	6	ne norm and campie paper solving			
	5	0				
MARCH			Annuai Exam			

Mahatma Gandhi Mission Primary & Seconday								
				Phase – II, Sector – 8, Nerul, Navi Mumbai				
STD: -X	II	SUB:-Phys	sics Teacher: -	Mrs. Mayuri Tonge				
MONTH	WEEK	NO. OF DAYS	LESSON	торіс				
APRIL	1	1	Chapter:14Electronic devices	Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction				
	2	5		Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier.				
	3	4	Chapter:1Electric charges and fields	Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.				
	4	5		Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire				
	5	6		Uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).				
				Cycle test 1				
JUNE	2	6	Chapter–2: Electrostatic Potential and Capacitance	Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field.				
	3	6		Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel.				
	4	5		capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only)				
	5	5	Chapter–3:Current electricity	conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non- linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.				
JULY	1	1		PERIODIC TEST 1st JULY TO 7th JULY				
	2	6	Chapter–4: Moving Charges and Magnetism	Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields.				
	3	6		Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors- definition of ampere, torque experienced by a current loop in uniform magnetic field; Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter.				
	4	6	Chapter–5: Magnetism and Matter	Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines				
	5	5		Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic propertie				
AUGUST	1	5		induction: Faraday's laws, induced FME and currents Long's				
	2	6	Chapter–6& 7: Electromagnetic Induction Electromagnetic And Alternating current	Law, Self and mutual induction. Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance				

	3	4		LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC generator, Transformer.
	4	6	Chapter–8: Electromagnetic Waves	Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses
	5	3	Chapter–9: Ray Optics and Optical Instruments	Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.
ертемве	1	2		Term 1 Theory and practical exam
	2	5		
	3	6	Chapter–10: Wave Optics	Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.
	4	1		Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle.
	5	5		Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only).
OCTOBER	1	5	Chapter–11: Dual Nature of Radiation and Matt	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation- particle nature of light.
	2	6		Experimental study of photoelectric effect Matter waves- wave nature of particles, de-Broglie relatio
	3	6	Chapter–12: Atoms	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen atom,
	4	5		of electron in nth orbit, hydrogen line spectra (qualitative treatment only).
	5	2	Chapter 13 Nuclei	Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.
	1	4		
	2	4		DIWALI VACATION
	3	0		
	4 5	0 3		Revision and Sample paper Solving
DECEMBE	1	2		
	2	6		Preboard Exam_I
	3	6		
	4	5		Revision and Sample paper Solving
JANUARY	1 2	6 6		Preboard Exam_II
	3	5		Board Practical Exam
	4	6		Prehoard Evan II
EBRUARY	1	3		
	2	3		Revision and Sample paper Solving
	4	6		
	5	0		Annual Exam
MARCH				

Activity
o identify a diode, an LED, a resistor and
capacitor from a mixed collection of
uch items.
Use of multimeter to see the
unidirectional flow of current in case of a
diode and an LED and check whether a
iven electronic component (e.g., diode) is
in working order. 3. To study effect of
intensity of light (by varying distance of
the source) on an LDR

To determine resistivity of two / three wires by plotting a graph for potential difference versus current.

To find resistance of a given wire / standard resistor using metre bridge.

To verify the laws of combination (series) of resistances using a metre bridge.

To determine resistivity of two / three wires by plotting a graph for potential difference versus current.



To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.



STD: -X	SUI	B:-Physics	Teache	
MONTH	WEEK	NO. OF DAYS	LESSON	
APRIL	1	1	Light	
	2	5		
	3	4		
	4	5		
	5	6		
JUNE				
	2	6		
	3	6		
	4	5		
	5	5		
JULY	1	1		
	2	6	Human eye	
	3	6		
AUGUST	1	5	Current electricity	
	2	6		
	3	4		
	4	6		
		2		
	5	3		

	2	5	N/2000tic offocts of
	3	6	current
	4	1	
	5	5	
OCTOBER	1	5	
	2	6	
	3	6	
	4	5	
	5	2	
NOVEMBER	1	4	
	2	4	
	3	0	
	4	0	
	5	3	
DECEMBER	1	2	
	2	6	
	3	6	
	4	5	
	5	3	
JANUARY	1	6	
	2	6	
	3	5	
	4	6	
	5	5	
FEBRUARY	1	3	
	2	3	
	3	6	
	4	6	
	5	0	
MARCH			

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Phase – II, Sector – 8, Nerul, Navi Mumbai						
YEAR PLAN 2023-2024						
Mrs. Mayuri Tonge						
ΤΟΡΙϹ	Activity					
Reflection of light by curved surfaces; , principal axis, principal focus, focal length, lenses. Images formed by spherical mirrors	Determination of the focal length of: Unit-III i) Concave mirror ii) Convex lens by obtaining the image of a distant object.					
Ray diagrams of image formation						
Mirror formula (Derivation not required), magnification.						
Numericles						
Cycle test						
Refraction of light through a prism,	Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.					
dispersion of light, scattering of light.						
Applications in dailylife (excluding colour of the sun at sunrise and sunset).	Tracing the path of the rays of light through a glass prism.					
Numericles on lens formula Value and General awareness-Students understand the nature of light anf its application in everyday life.						
Periodic Test 1						
Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens;						
Image formed by spherical lenses; Lens formula(Derivation not required); Magnification. Power of a lens.						
Electric current,PD ,Resistivity, Factors on which the resistance of a conductor depends.	Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.					
Ohm's law; Resistance						
Combination of resistors and its applications in daily life						
Heating effect of electric current and its applications in daily life.	Determination of the equivalent resistance of two resistors when connected in series and parallel.					
Electric power, Interrelation between P, V, I and R.	1					
Value						
Periodic test 2						

Magnetic field, field lines,	
Field due to current carrying coil or solenoid;	
Force on current carrying conductor,	
Domestic electric circuits.	
Fleming's Left Hand Rule, Direct current.	
Alternating current:	
frequency of AC. Advantage of AC over DC	
field due to a current carryingconductor,	
Revision	
DIWALI VACATION	
Revision and Sample paper Solving	
Preboard Exam_I	
Revision and Sample paper Solving	
Preboard Exam_II	
Board Practical Exam	
Preboard Exam II	
Revision and Sample paper Solving	
Annual Exam	

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STD: -IX	SU	B:-Physics	Teacher: -
MONTH	WEEK	NO. OF	LESSON
		27.10	
APRIL	1	1	Theme: Moving Things, People and Ideas Unit III: Motion, Force and Work
	2	5	
	3	4	
	4	5	
	5	6	
JUNE			
	2	6	
	3	6	
	4	5	
	5	5	
JULY	1	1	
	2	6	Force and Newton's laws
	3	6	
AUGUST	1	5	
	2	6	Gravitation
	3	4	
	4	6	
	5	3	
SEPTEMBER	1	2	
	2	5	
	3	6	Floatation
	4	1	
	5	5	
OCTOBER	1	5	Work, Energy and Power:
	2	6	
	3	6	
	4	5	
	5	2	
			I

NOVEMBER	1	4	
	2	4	
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	4	0	
	5	3	
DECEMBER	1	2	Sound
	2	6	
	3	6	
	4	5	
	5	3	
JANUARY	1	6	
	2	6	
	3	5	
	4	6	
	5	5	
FEBRUARY	1	3	
	2	3	
	3	6	
	4	6	
	5	0	
MARCH			

hatma Gandhi Mission Primary & Seconday School

Phase – II, Sector – 8, Nerul, Navi Mumbai

YEAR PLAN 2023-2024

Mrs. Mayuri Tonge

ΤΟΡΙΟ

Motion: Distance and displacement, velocity;

Velocity ,acceleration.uniform and non uniform

uniform and non-uniform motion along a straight line;

Acceleration, distance-time
Velocity-time graphs for uniform motion and uniformly
accelerated motion
Cycle test 1
Elementary idea of uniform circular motion.
Numericles on graph
Numericles on equation of motion
Numericles on equation of motion
Unit test 1
Force and Motion, Newton's Laws of Motion
Inertia of a body, Inertia and mass
Momentum, Force and Acceleration.
Gravitation; Universal Law of Gravitation
Force of Gravitation of the earth (gravity),
Acceleration due to Gravity
Mass and Weight; Free fall
Semester exam
Thrust and Pressure.
Archimedes' Principle;
Buoyancy.
Work done by a Force, Energy
power
Kinetic and Potential energy
Law of conservation of energy (excluding commercial unit of
Energy).
Revision

Revision					
DIWALI VACATION					
Nature of sound and its propagation in various media					
speed of sound					
Comparison of sound and light					
Numericles					
speed of sound					
Range of hearing in humans					
Ultrasound					
reflection of sound					
Echo.					
Cycle test					
Revision of Motion					
Revision of Force					
Revision of Gravitation					
Revision of Sound					
Annual Examination 23-24					

Activity

Measurement of dispalcement and distance and hence find difference between them

Plotting motion on graph paper and finding slope Plotting distance time graph

Plotting graph between velocity and time

Establishing the relation between the loss in weight of a solid when fully immersed in Unit-III a) Tap water



	Mahatma Gandhi Mission Primary & Seconday School										
	Phase – II, Sector – 8, Nerul, Navi Mumbai YEAR PLAN 2023-2024										
				YEAR PLAN 2023-2024							
STD: -XII			CHEMISTRY	Manasvi M.Shigwan TOPIC Activity							
MONTH	WEEK	NO. OF DAYS	LESSON	ΤΟΡΙϹ	Activity						
	1 2	1 5	-		Students Presentation on						
APRIL	3	4	Haloalkanes and Haloarenes	Introduction, Classification, Nomenclature, Basics							
	4	5	Theoderical and Theoderical States	discussion from organic Chemistry	Students Presentation on SN1 and SN2 mechanism						
	5	6									
	2	6									
	3	6	Electrochemistry	Electrochemical cell, cell representation, Nernst equation, Gibbs equation, Farady's law	Students Presentation on Batteries						
JUNE	4	5									
	5	5	Alcohols, Phenols, ethers	Classification, Nomenclature, Preparation, physical properties, chemical reactions	Practicals volumetric Analysis of oxalic acid						
	1	1	IIII X PERIODIC TEST 1st IIII X TO 7th IIII X								
	2	6									
ШЛУ	3	6									
0021	4	6	Solutions	Concentration of solutions, solubility, Colligative properties. Vanthoff factor	Practicals volumetric Analysis of Mohr's Salt						
	5	5		F. F							
	1	5									
AUGUST	2	6	Coordination Compounds	Important terms, Werner's Theory, Types of ligands, Homoleptic, Heteroleptic Complexes,	Practicals on analysis of Food sample (Carbohydrate,Protein, Fats)						
AUGUSI	3	4	Coordination Compounds								
	4	6		VBT CFT	Practicals on analysis of Functional group						
ļ	5	3		, 21, 011	restous on analysis of runctional group						
	1	2		Terms 1 Theory & Device 1 F							
	2	5		ierm -i Theory & Practical Exa	an						

SEPTEMBER	3	6	Aldehydes, Ketones and Carboxylic Acids	Structure, Nomenclature, Chemical reactions of Aldehydes	salt analysis				
	5	5		preparation reactions					
	1	5							
	2	6	Discussion	Catalasta Marcharlasi las Classa Francis	salt analysis				
OCTOBER	3	6	Biomolecules	Carbonydrates: MonoSaccharides: Glucose, Fructose					
oorophic	4	5							
			Amine Chamical history	Classification, Nomenclature, Preparation, physical	student's presentation on Biomolecules				
	1	4	Amines, Chemical kinetics	properties, chemical reactions					
	2	4							
NOVEMBER	3	0		mical kinetics)					
	4	0							
	5	3	d and f Block Elements	Numericals	practicals on determining rate of chemical equation				
	1	2	d and f Block Elements	physical and Chemical properties					
DECEMBER	2	6		Preboard Exam					
220200201	3	6		Tebbard Exam_1					
	4	5	Revision and Sample paper Solving						
JANUARY	1	6		Prohoard Exam II					
	2	6		Pleboald Exam_II					
	3	5							
	4	6							
	5	5	- 5 Preboard Exam_II						
FEBRUARY	2	3		Revision and Sample paper Solvin	ισ				
	3	6			'5 				
MARCH				Annual Exam					



	Mahatma Gandhi Mission Primary & Seconday School									
	Phase – II, Sector – 8, Nerul, Navi Mumbai									
	YEAR PLAN 2023-2024									
			STI	D: -12 SUB:-Biology	Teacher: - Mrs. Shalini Tiwa	uri				
MONTH	WEEK	NO. OF DAYS	LESSON	TOPIC and LEARNING OUTCOMES	Activity	Skill and competency				
	1	1		Student will be able to * Explain the Structure of flower, development of male and female gametophyte.	To study the pollen germination on slide.	Developing recognise, analysis and comparision knowledge skills, understanding and experimental skill, scientific vocabulary, asthetic sense, demonstration skill,				
	2	5	1.Sexual Reproduction in flowering plant	 * Know the different adaptation in flower depending upon the pollination process. * Describe the mechanism of pollen- pistil interaction, double fertilisation, post 	(practical) 2. To study the adaptation of flowers for pollination. (spotting by the help of virtual image) 3. contolled pollination emacculation tagging and	communication skill. Creativity.				
	3	4		retrilisation events, development of seed, fruit formation, parthenocarpy, polyembryoand apomixis * Explain the embriyo development	bagging					
APRIL	4	5	. 2Human Reproduction	Student will be able to * Understand and compare the Structure of male and female reproductive system * Understand and compare the microscopic anatomy of testes and ovaries. * Explain the mechanism of Gametogenesis - oogenesis and spermatogenesis. * Explain the mechanism of menstrual cycle * Understadn and explain the fertilization, embryo development, implantation, embryo dev placenta formation, parturation and lactation	 To study the TS of testis and LS of ovary(Spotting by the help of virtual image) TS of blastula through permanent slide 	Developing Recognise, analysis ,able to compre between the structure and processes and use and interpretate Scientific vocabulary, creativity.				
-	5	6	3.Reproductive health	Student will be able to * Understand and explain the STDs, Birth control methods, MTP, amniocentesis, infertility and assisted reproductive technologies IVF,ZIFT,GIFT	Students will prepare a power point presentation by showing their creativity by the help of tools available on tool bar on any one of the following topic 1. Infertility. 2. Contraceptive method	Investigating skill, knowledge exploration, Use and interpretate scientific vocabulary, creativity in making of power point presentation				

JUNE	2	6	4. Principles of Inheritance and variation	Student will be able to * Understand the Mendelian inheritance and laws of inhritance *Compare the Deveation from Mendelismincomplete and co dominance, multiple allele * Understandthe mechanism of pleiotrophy, polygenic Inheritance, chromosomal theory of inheritance, *Describe the sex determination inhuman, birds,honeybee, linkage and crossing over *Identify and compare sex linked inheritance haemophilia, colourblindness, Mendelian disorderthalassemia, Chromosomal disorderDown, Turner and klinefelter syndrome	 1.To study of prepared pedigree charts of Genetic traits such as rolling of tongue, blood groups, widow peak, colour blindness (spotting by the help of prepared pedigree chart) 2.mendelian inheritance using seeds of different colour 	Analysing ,reasoning, problem solving , critical thinking skill, able to use and interpretate scientific vocabulary
	3	6 5	5.Molecular basis of Inheritance	Student will be able to * Describe Structure of DNA and RNA *Understand the mechanism of DNAPackaging, DNA Replication, Transcription, Translation * Understanding the concept of central dogma and genetic code	To isolate the DNA from available plant material such as spinach, banana	Analysing, demonstration skill, communication skill, and experimental skill, Able to use and interpretate scientific
	5	5	6.Evolution	* Describe gene expression and regulationlac operon student will be able to. 1. Origin of life 2.Evolution and evidences 4. Adaptive radiation 5.biological evolution mechanism of evolution 6. Hardy weinsberg principle. 7.human evolution	Flash cards models showing examples of homologous and analogous organs	Analysing, demonstration skill, communication skill, creative thinking and experimental skill , Able to use and interpretate scientific vocabulary,
	1	1	-	JULY UNIT TEST 1st JULY TO 7th JULY		
JULY	3	6	7.Biotechnology principles and processes	Student will be able Understand and Describe the steps of Recombinant DNA	To find out the information about the Polymerase chain reaction from internet (Integration with ICT)	Investigation with existing knowledge , exploration and Interpreting, Able to use and interpretate scientific vocabulary. Critical thinking while understanding the working of gel electrophorosis and PCR
	4	6 5	8 Biotechnology and its application	Student will be able to * Understanding the mechanism of Formation of human insulin , vaccine production	Collect information about the GEAC and Biopiracy of Neem, Basmati and Turmeric	Skill developed Investigation with existing knowledge, exploration , analysing, and Interpretation
	1 2	5 6	9. Human Health and Diseases	* understanding the corelation between diseases and health * Understanding	To study the common disease causing organism (spotting by the help of virtual image)	Analysing, demonstration skill, communication
AUGUST	3 4 5	4 6 3	10. Microbes in Human Welfare	Microbes used in food processing, industrial production, sewage treatment biogas production. Microbes as a biocontrol and biofertilizer, production of antibiotics	Prepare chart showing list of microbes mentioning in a chapter and its uses.	skill developed Investigating Exploring knowledge and Scientific vocabulary

	1 2 Term -1 Theory & Practical Exam					
	2	5		Term - T Theory & Flactical Exam		
	2	C		Student will be able to	1.10 Study plant population density and frequency by	
SEPTEIVIDER	3	0	11. Organism and	*Define Habitat and niche, Population & ecological adaptation	the help of quadrant chart (Integration with	Able to form Correlation between population
	4	1	population	*Understand the nonulation attributes, growth, birth& death rate. Age	Mathimatics)	skill problem solving and experimental skill
	5	5		distribution	root nodules of leguminious plant cuscuta with host	
	1	5		Student Will be able to		Analyzing skill, commnication, aestheticsence, creativity,
	2	6	12.Ecosystem	*Understand and explain the relationship in Ecosystem pattern, component,	list up the ecological sevices which we get to conserve	Able to use and intepretate scientific vocabulary,
OCTODED	3	6		*Understand the role of energy flow in diffront transic level	ecosystem (integration with environmental science)	Investigating skill, concern towards Preservatoin of
OCTOBER	4	5		Student will be able to	Find out atleast 2 plant and animal varieties native to	
	5	2	13.Biodiversity and its	* Understand the Concept of pattern, loss and conservation of biodiversity.	Maharastra which are endangered. Find out their IUCN	Analyzing skill,
			conservation	* Know the importance of hotspot.	status and reason for same and suggest conservation	Investigating skill, developing scientific vocabulary,
	1	4		* Define the endangered and extinct species, Red data book, Biosphere	measures (Integration with ICT)	asthetic sense.
	2	4				
NOVEMBER	3	0		DIWALI VACATION		
	4	0				
	5	3				
	1	2		Revision and Sample paper Solving		
	2	6				
DECEMBER	3	6		Preboard Exam_1		
	4	5		Revision and Sample paper Solving		
	5	3				
JANUARY	1	6				
	2	6		Preboard Exam_II		
	3	5		Decad Decaded From		
	4	6	1	Board Fractical Exam		
	5	5		Deduced For the		
	1	3		Preboard Exam _II		
	2	3				
FEBRUARY	3	6	1	Revision and Sample paper Solving		
	4	6	1			
	5	0		Access 5		
MARCH				Annuai Exam		

Sour OF EXCELLENCE		Mahatma Gandhi Mission Primary & Seconday School					
AN A	1	Pha	se – II, Sector – 8, Nerul, Navi Mumbai YFAR PI AN 2023-2024				
STD: -X	M G M	SUB:-COMP.SCIENCE	Teacher: - Mrs. Sange	eeta Gunjal			
MONTH	WEEK	UNIIT	ΤΟΡΙϹ	Activity			
	1 2	12.Relational database	Purpose of DBMS, Relational Database Model,	Lab Work:CREATE TABLE EMP, INSERT			
APRIL	3	13.Simple SQL Queries	Accessing Database in MySQL.	PER QUERY			
	4	14.Table Creation and Data Manupulation	1. Creating Tables 2. Inserting data into Table	Lab Work: Sort By clause and Group By Clause			
	5	15. Grouping Records,Joins in SQL	1. Ordering records in result 2. Groupig Records				
	2	1.Python Revision Tour_1	1.Keywords & identifiers 2.Looping statements 3.String in Python	Lab Work. Write a program to reverse the string			
JUNE	3	2.Python Revision Tour_2	Lists, Tuples, Dictionaries in python	Lab Work.Recursievely find the Factorial			
	4			of a Natural number			
	5	3. Working with Functions	Understanding of Function	Lab Work 1. Write a python function sin(x,n) to calculate the value of sin(x) using its Taylor series expansion up to n terms.			
	1		JULY PERIODIC TEST 1st JULY TO) 7th JULY			
JULY	3		What is Library				
	4	4. Using Python Libraries	Importing Modules in a python	Lab Work. 1. Write a program to get http request information from www.ted.com			
	5		Creating a python Library	and open it from within your program			
	1		Data Files	Lab Work. 1.Read a file line and print it			
ALICUST	2	5. File Handling	Opening and closing Files	contain the character 'a' in a file and write it to another file.			
AUGUST	3	6. Recursion	Recursive Function	Lab Work 1.Write a recursive function to print a string backwards			
	4 5	7. Idea of Algorithmic Efficiency	Idea of Algorithmic Efficiency	Calculate the run-time efficiency of the following program segment			
	1		Term -1 Theory & Practica	ll Exam			
	2						
	3	8. Data Structures-I:	Elementary Data Representation	Lab work. Linear searching in an			
EPTEIVIDE	4	Linear Lists		array(Linear list)			
	5	9. Data Structures-II : Stacks and Queues	1. Introduction 2.Stacks and Queues	1.Write a python program to implement a stack			
	1	10. Computer Network-1	Types of Network	What is a Network?What are its goals and			
	3	12.Computer Network-II	Modulation Techniques, Main Idea	What is Modulation? What is the need of			
OCTOBER	4			Design a Python applicatin that faches all			
	5	16.Interface Python with MySQL	Connecting to MySQL from Python	the record from pet tables of Menagere Database			
	1						
	2						
IOVEMBE	3		DIWALI VACATION				
	5		Revision and Sample paper S	Solving			
DECENT	2		Prehoard Exam				
DECEMB	3		Revision and Sample paper S	Golving			
JANUARY	+ 1		Prehoard Exam				

	2				
	3	Board Practical Exam			
	4	Doard Flactical Exam			
	5	Prahoard Evam II			
	1				
	2				
FBRUARY	3	Revision and Sample paper Solving			
	4				
	5	Annual From			
MARCH		Annual Exam			

	MAHATMA GANDHI MISSION PRI. & SEC. SCHOOL ENG. MED.									
	ACADEMIC YEAR 2023-24									
	ALTERNATE ACADEMIC YEAR PLAN CLASS 12 Sci [SUB: Physical Education) ACTIVITY/PROCESS									
SR	LESSON Learning Outcome Resource Material/E- conent ACTIVITY/PROCESS competency									
	April									
1	Sports and Nutrition	To learn macro and micro nutrients, pitfall of diet, myth of	https://youtu.be/s4hzZ7nbEMC	Preparing a chart of nutrients. Explain theoretically about Nutrition.	Exploring Knowledge Skill and understanding					
2	Projet file work (4) Any one game of your choice out 2 of the list (volleyball), Labelled diagram of field and equipment.	To leam in details about volleyball games.	https://youtu.be/OWCkPbr981g	Explanation activity	Knowledge skill, demonstration skill and experiential learning	Making diagram of volleyball ground				
3	Fitness test: Body mass index	measure fat percentage of individe	https://youtu.be/Wwjlz62x4	Demonstrate the test	Demonstration with practice					
4	Fitness test-Partial curt up June	To measure core strength	https://youtu.be/odcmz3LXvhM	Demonstrate the test	Demonstration with practice					
	JUNE									
5	Biomechanics and Sports	Learn about biomechanics and different movements around the joints.	https://youtu.be/3NuHan0B6Xo	Practical demonstration on ground	Investigation and Analysis	making model of human body				
6	Projet file work (2). Procedure of any two asanas of To learn the effect of asanas on lifestyle diseases.	To learn the effect of asanas on lifestyle diseases		Practical demonstration with students practice	Knowledge skill, demonstration skill and experiential learning					
7	Fitness test-Sit and reach	To measure flexibility of hamstring muscle	https://youtu.be/YsZ MZs9YSA	Measure flexibility test using sit and reach box	Demonstration with practice					
8	Fitness test-Flamingo balance test	To measure balance capacity	https://youtu.be/gxh30/V/bmc	Measuring balance test on flat surface	Demonstration with practice					

			Periodic Test-1			
	July					
9	Yoga and lifestyle	To learn about various diseases and effects of asanas on it.	https://youtu.be/6BPQQKKIQJE	Demonstration with practice		
10	Fitness test: Flexed bend arm hang	To measure upper body strength	https://youtu.be/5 3FJquibx4	conduct this test on school grounds	Demonstration with practice	
11	Finess test-600m run	To measure CVE	https://youtu.be/crl94Va)M84	conduct this test on school grounds	Demonstration with practice	
	August					
12	Physiology and injuries in sports	To know about different types of nuries and its management	https://youtu.be/163XE8h8w	Explanation about different types of injuries	Exploring Knowledge, Skill and understanding and observing skill	
14	Fitness testShuttle run	To measure agility	https://youtu.be/Zc sdwinic	conduct this test on school grounds	Demonstration with practice	
15	Fitness test-Vertical jump	To measure lower body strength	http://youtu.be/zMGR6T2HVYO	conduct this test on school grounds	Demonstration with practice	
	September					
	Planning in Sports	To understand different types of tournaments	https//youtu.be/DeJUNUTKOR	Theoretically explanation about knockout and league methad	Exploration and presentation skill observation and creative thinking skill	