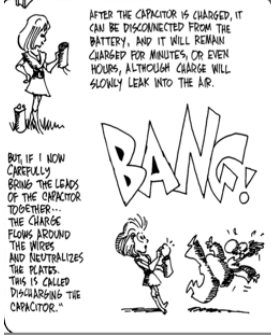


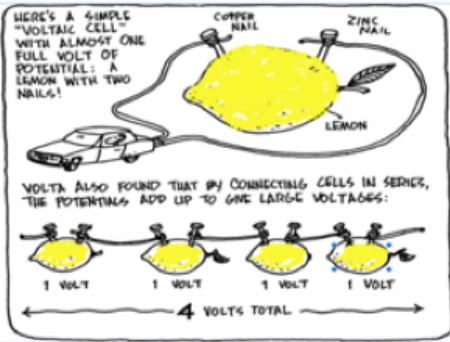


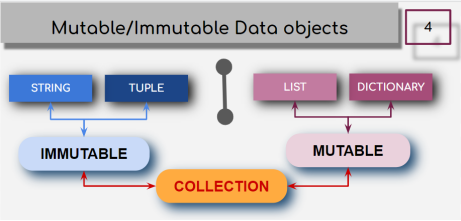
TAGORE INTERNATIONAL SCHOOL
VASANT VIHAR, NEW DELHI
PARENTS SYLLABUS (2022-23)
CLASS XII C & D
April - March

April				
Subject	Topics to be Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	<ul style="list-style-type: none"> ● Continuity and Differentiability <ul style="list-style-type: none"> ❖ Bridge course on differentiation(Chain rule, Exponential and logarithmic functions and their differentiation) ❖ Derivatives of implicit functions ❖ Derivatives of inverse trigonometric functions ❖ Logarithmic differentiation ❖ Derivatives in parametric form ❖ Higher Order Derivatives ❖ Limits(Bridge course) ❖ Continuity ❖ Differentiability ● Application of Derivatives <ul style="list-style-type: none"> ❖ Bridge course on trigonometric equations and straight lines. 	<p>Each student will be able to:</p> <ul style="list-style-type: none"> ● recall the chain, quotient and product rule. ● list the properties of logarithms. ● analyze the graphs of Exponential and Log functions. ● solve questions on derivatives involving Exponential and Log functions. ● find the derivative of implicit function and inverse trigonometric functions. ● use inverse trigonometric functions to find derivatives. ● apply the concept of logarithms to find derivative of functions of the form $y = u(x)^{v(x)}$. ● find derivatives of functions in parametric form. ● find higher order derivatives. ● recall the concept of limits. ● define continuity of a function. 	<ul style="list-style-type: none"> ● Activity: To sketch the graphs of a^x and $\log_a x$, $a > 0$, $a \neq 1$ and to examine that they are mirror images of each other. ● Flipped Learning: <ul style="list-style-type: none"> ❖ Read the text from NCERT related to derivatives in parametric form, second order derivative and continuous functions. ❖ Videos related to derivatives and continuous functions. ❖ Watch the video on increasing and decreasing functions. ❖ Handout to understand the equation of tangent and normal. ● Art integration Identify Increasing and decreasing functions from Madhubani paintings. 	<p>Short test</p> <p>NCERT Questions(Class work/Homework)</p> <p>Google forms</p> <p>Assignment</p> <p>Case study</p>

	<ul style="list-style-type: none"> ❖ Increasing and Decreasing Functions ❖ Tangents and Normal 	<ul style="list-style-type: none"> ● find points of discontinuity. ● describe continuous functions graphically. ● define differentiability of a function at a point. ● examine if a function is differentiable at a given point or not. ● explain the concept of critical points. ● determine critical points of a function both algebraically and graphically. ● identify the function to be increasing and/or decreasing. ● find the intervals in which the function is increasing or decreasing. ● determine from the graph of a function, the intervals where it is increasing or decreasing. ● recall the relation of derivative at a point with the slope of tangent. ● find the slope of tangent and normal and hence their equation. 		
English	Prose Lost Spring	<p>Each student will be able to comprehend the text and answer questions(Short,long and value based)</p> <ul style="list-style-type: none"> ● Justify the title ● Interpret the metaphorical statements ● Comment on the paradoxes found in our society 	<p>Flipped Learning https://www.youtube.com/watch?v=ZQ-wxr-2K98 (Bangle makers of Firozabad) https://youtu.be/K9i0K8Of7aU (Reality of Ragpickers)</p> <p>Art Integration Create a poster on 'The Evils of Child</p>	<p>Worksheet</p> <p>Analytical Questions</p> <p>NCERT Questions</p> <p>Google forms</p> <p>Periodic test</p>

<p>Physics</p>	<p>18 classes</p> <p>Electrostatic Potential and Capacitance.</p> <p>Electric Field</p> <p>Electrostatics</p> <p>Equipotential</p> <p>Electrostatic Potential</p> <p>Electric Charges</p> <ul style="list-style-type: none"> · Parallel Plate Capacitor · Capacitance · RC Circuit · Circuits <p>Resistivity</p> <p>Resistance</p> <p>Circuits</p> <p>Ohm's Law</p> <p>Circuits</p> <p>Current</p> <p>Kirchoff's laws</p> <p>Metre bridge</p> <p>Potentiometre</p>	<ul style="list-style-type: none"> · Determine the variables that affect how charged bodies interact. · Predict how charged bodies will interact. · Describe the strength and direction of the electric field around a charged body. · Use free-body diagrams and vector addition to help explain the interactions. <p>Determine the variables that affect the strength and direction of the electric field for a static arrangement of charges.</p> <p>Investigate the variables that affect the strength of the electrostatic potential (voltage).</p> <p>Explain equipotential lines and compare them to the electric field lines.</p> <p>For an arrangement of static charges, predict the electric field lines. Verify the prediction using vector addition.</p> <p>Practical :</p> <p>To determine resistivity of two / three wires by plotting a graph for potential difference</p>	<p>https://www.youtube.com/embed/yU5kPoc7sL4 (touchscreen laptops, cell phones)</p> <p>Research Resource Link : https://www.redzone2u.com/all-in-one-pos-terminal-touch-screen-monitor</p> <p>Concept map for all the related, relevant formulae.</p> <p>Capacitors using Comic strip:</p>  <p>Subject Integration (Physics and Chemistry)</p> <p>Thermal electricity Vs Nuclear Electricity comparative study.</p> <p>Ukraine Russia Discussion</p> <p>Design and test your own circuit.</p>	<ul style="list-style-type: none"> · Worksheets · Lab activity · MCI assessment · Class Test · Google form · Diksha Practice Module
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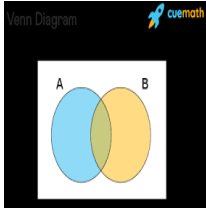
		<p>versus current.</p> <p>To verify the laws of combination (series) of resistances using a metre bridge.</p> <p>To compare the EMF of two given primary cells using potentiometer.</p>	 <p>HERE'S A SIMPLE "VOLTAIC CELL" WITH ALMOST ONE FULL VOLT OF POTENTIAL: A LEMON WITH TWO NAILS!</p> <p>COPPER NAIL ZINC NAIL</p> <p>LEMON</p> <p>VOLTA ALSO FOUND THAT BY CONNECTING CELLS IN SERIES, THE POTENTIALS ADD UP TO GIVE LARGE VOLTAGES:</p> <p>1 VOLT 1 VOLT 1 VOLT 1 VOLT</p> <p>← 4 VOLTS TOTAL →</p> <p>Independent Inquiry activity resources and questions.</p> <p>Battery Voltage: Learning Goals</p> <p>Do the small blue spheres represent positive or negative charges?</p> <p>Research Resource Link : https://testbook.com/blog/meter-bridge-experiment/</p>	
<p>Chemistry</p>	<p>Haloalkanes and haloarenes Classification</p> <p>Types and Methods of preparation</p> <p>Physical and chemical properties</p> <p>Stereochemical aspect of Alkyl halides</p> <p>SN1 and SN2 mechanism</p> <p>Chemical properties of</p>	<p>Each child will be able to:</p> <ul style="list-style-type: none"> ▪ Follow IUPAC rules of nomenclature of these organic compounds. ▪ Classify haloalkanes and haloarenes into various categories. ▪ Enlist at least four methods of preparation of these compounds (two each) ▪ compare Physical properties of haloalkanes and haloarenes. ▪ conceptualise o-p substitution of haloarenes 	<p>Model of enantiomers to understand the concept of optical activity</p> <p>instructional Videos: https://www.youtube.com/watch?v=h5xvaP6bIZI</p> <p>(SN2 Mechanism)</p>	<ul style="list-style-type: none"> ● Worksheet – short questions ● Google form ● Worksheet – Objective questions (Assessment) ● Assignment ● In text practice questions

	<p>haloarenes</p> <p>Alcohol, Phenol, Ethers</p> <p>nomenclature and methods of preparation</p> <p>physical properties</p> <p>chemical properties</p> <p>mechanism of important reactions</p> <p>comparing alcohols and phenols</p> <p>Ethers</p> <p>Preparation and properties</p>	<p>Each child will be able to:</p> <ul style="list-style-type: none"> State rules for nomenclature of these organic compounds. Describe methods of preparation of these compounds (at least two) Discuss and compare Physical properties of alcohol and phenol Explain ring substitution of phenol and ethers Predict major products in the reactions of phenol Outline industrial method of preparation of ethanol and phenol Appreciate use of organic compounds in everyday life. 	<p>https://www.youtube.com/watch?v=JmcVgE2WKBE</p> <p>(SN1 Mechanism)</p> <p>Create a comic strip to show reactivity of ethers.</p> <p>Study of Antiseptic properties of phenol in dilute solution</p> <p>https://www.youtube.com/watch?v=eC0-ANompz8&list=RDCMUC4TkXPuAVneUYNWPVQRmyyg&start_radio=1&t=61</p> <p>https://www.youtube.com/watch?v=qbYXVztddJs</p>	<ul style="list-style-type: none"> Google form Worksheet – Objective Class test
<p>Computer Science</p>	<p>UNIT 1: Programming and computational thinking</p> <p>Ch : Revision Tour (Bridge Course)</p> <ul style="list-style-type: none"> Revision of Python basics <ul style="list-style-type: none"> Flow of Control Lists and Tuples and methods like len(), index(), sort(), sorted(), count() etc Dictionaries methods like keys(), values(), popitem() etc <p>File handling:</p> <p>Text Files-(5 periods)</p>	<p>Each student will be able to:</p> <ul style="list-style-type: none"> use keywords and differentiate among various tokens. implement matrices using python nested lists Implement mutable and immutable data type concepts in programming <p>Each student will be able to–</p> <ul style="list-style-type: none"> read/write text files read files letter by letter/ word by word/ sentence by sentence 	 <p>Learning Activity:</p> <ul style="list-style-type: none"> Implementing lists and tuples to solve various codes. Using predefined methods like sort(), reverse(), index() etc in programming <p>Teacher's Resources</p> <p>https://docs.google.com/presentation/d/1-hvHjtU5becVKUlf-HlsZnacnHhh</p>	<ul style="list-style-type: none"> Worksheets Assignments in Google Classroom Error/ output based assignments <p>Weekly test</p> <p>Functions, text files, Binary files</p>

	<p>open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths.</p> <p>Binary Files-(10 periods) Basic operations on a binary file: Open (filename – absolute or relative path, mode) / Close a binary file, Pickle Module – methods load and dump; Read, Write/Create, Search, Append and Update operations in a binary file.</p> <p>Basic operations on a binary file: Open (filename – absolute or relative path, mode) / Close a binary file, Pickle Module – methods load and dump; Read, Write/Create, Search, Append and Update operations in a</p> <p>CSV FILES Introduction (3) Reader, writer, writerows()</p>	<p>Each student will be able to–</p> <ul style="list-style-type: none"> ● Create Binary Files ● apply tell() and seek() for random file pointer movement ● insert and display records ● Search Records ● Modify records ● Delete Records 	<p>UWeigYvuyxZOP40/edit?usp=sharing g Worksheets Lab Assignments Quizzes</p> <p>Teacher’s resource</p> <p>https://docs.google.com/presentation/d/1xhEwfH1fyRJ7UDP-2NZ1NjXL1oYUSLHD/edit?usp=sharing&oid=115343870033980011109&rtpof=true&sd=true</p>	
<p>Economics</p>	<p>Government Budget and the Economy- Meaning Objectives Structure Public revenue & Public expenditure</p>	<p>Each student will be able to: Identify the spending categories and major revenue sources in the Union budget State the various objectives of the Budget.</p>	<p>1. Prepare a budget of your own assuming ` 1000 pocket money. 2. Newspaper articles- note the impacts on – a) farmers b) GST collection c) Introduction of RBI Bitcoins</p>	<p>Class tests Worksheets Google forms Peardeck</p>

	<p>Types of deficit Meaning Objectives Structure Public revenue & Public expenditure</p> <p>FIVE YEAR PLANS a. Common Goals of Five Year Plans Meaning of Five Year Plans b. Objectives of Planning. c. Analyzing the importance of Planning in development. d. Features of Economic Policy under Planning till 1991. e. Achievement of the Goals of planning f. Failures of Planning</p> <p>New Economic Policy 1991 Liberalization Globalization Privatization Reasons for adoption of the New Economic Policy</p>	<p>Define fiscal policy, identifying the roles of tax rates and government spending Differentiate between the three types of budget.</p> <p>The importance of planning in life-Individual as well as an economy To comprehend the meaning of planning by think pair and share method. Identify the goals of five year plan Analyze the importance of planning in development and the achievements as well as the failures of planning.</p> <p>Identify and discuss the causes for the adoption of the New Economic policy.</p> <p>1. Critically understand the background of the reform policies. 2. Critically point out the mechanism through which reform policies were introduced. 3. Discuss the causes for the adoption of the New Economic policy.</p>	<p>d) Health</p> <p>Designing the budget as presented in the Parliament using Worli art.</p> <p>Find the first chairman of the planning commission and when it was established.</p> <p>Why was there a need to concentrate efforts into agriculture in the first plan?</p> <p>Art integration</p> <p>Experiential learning</p> <p>Group discussions</p> <p>Debates</p> <p>1. watch the video and understand the need for reforms: https://www.youtube.com/watch?v=IzW0sS3D0I4 2. watch the video and analyze the changes adopted during reforms. https://www.youtube.com/watch?v=Ogc-yjiZoXiY Interview of Dr. Manmohan Singh 4. watch the video and understand the concept of liberalization https://www.youtube.com/watch?v=JWGV4OWnKlw</p>	<p>Nearpod Kahoot quiz</p> <p>Worksheets Google forms</p> <p>Peardeck</p> <p>Class tests Worksheets Google forms Peardeck Nearpod Kahoot quiz</p>
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Psychology	<p>Chapter 1 – Variations in psychological attributes</p> <ul style="list-style-type: none"> ● Individual differences in Human Functioning ● Assessment of Psychological Attributes ● Intelligence ● Theories of Intelligence ● Culture and Intelligence ● Emotional Intelligence 	<p>Each student will be able to:</p> <ul style="list-style-type: none"> ● Understand how individuals differ from one another. ● Identify different psychological attributes and use various methods to assess these psychological attributes ● Explain how psychologists assess intelligence to identify mentally challenged and gifted individuals 	<ul style="list-style-type: none"> ● Using Multiple Intelligence theory as base – Interview your 5 friends and evaluate the areas possessed by them. ● Identify the top 3 competence/ capacity you have learnt from your culture and explain with highlighting real-life incidents from your life. ● Write a real-life story of a person who is successful because of his/her EQ. 	<ul style="list-style-type: none"> ● Assignment ● Group Discussions ● Kahoot Quiz ● Class Test


	<ul style="list-style-type: none"> ● Special Abilities ● Creativity <p>Practical – Raven’s Standard Progressive Matrices (RSPM)</p>	<ul style="list-style-type: none"> ● State how intelligence has different meaning in different cultures ● State the diff. between intelligence and aptitude ● Discuss the relationship between culture and intelligence ● Explain the importance of emotional intelligence for being successful 		
Biology	<p><u>REPRODUCTION IN HUMANS- Classes-9 classes</u></p> <p>Pre fertilization events-</p> <ol style="list-style-type: none"> 1.The male reproductive system, 2..Female reproductive system, 3. Gametogenesis, 4. Menstrual cycle, <p>Fertilization</p> <p>Post fertilization events-</p> <ol style="list-style-type: none"> 5.Pregnancy & embryonic development 6.Parturition 	<p>Each child will be able to-</p> <ul style="list-style-type: none"> ❖ Explain the structure of male & female reproductive system. ❖ Graphically explain gametogenesis ❖ Specify the role of hormones in the process of gametogenesis. ❖ Relate the changes taking place during various phases of menstruation to changes in the hormones in female reproductive system 	<p>For the flipped learning- https://www.slideshare.net/neelamdevpura/human-developmental-biology Gametogenesis and oogenesis, https://www.youtube.com/watch?v=tOluxtc3Cpw menstrual cycle</p> <p>Make a graphic organizer – Venn diagram on</p>  <p>spermatogenesis & oogenesis</p>	<p>Short test based on uterine cycle , embryogenesis & gametogenesis using Google form Google docs for assignment.</p>

	<p><u>Reproductive Health</u> <u>(4 classes)</u></p> <ol style="list-style-type: none"> 1. Reproductive health-Problems & Strategies 2. Population Explosion & birth control 3. 4. Sexually transmitted diseases 5. Infertility 	<ul style="list-style-type: none"> ❖ List the stages of embryogenesis & fetal developments in uterus after pregnancy & at the time of parturition <p>Each child will be able to- Discuss the issues related to reproductive health in humans</p> <ul style="list-style-type: none"> ❖ Specify the factors responsible for STD,s ❖ List the various methods of birth control & their functioning ❖ Specify the method for assisting infertile couples for successful child birth. . 	<p>Differentiate sperm & female gamete on the basis of structure & function https://www.youtube.com/watch?v=mVu-tXcycUjQ Video on stages of growth of human fetus.</p> <p>Activity - Group activity Make a flow mind map on the events of fertilization & post fertilization events</p> <p><u>Extended learning activity</u> Research on the traditional information used (any five) to check abortion.</p> <p>https://www.quantamagazine.org/choosy-eggs-may-pick-sperm-for-their-genes-defying-mendels-law-20171115/?fbclid=IwAR0JreK7OI2id4626RrQH2BtFJSS2NAmHslS9EakjokKE8rp9FxYKz7KBto How egg participates in selection of sperm?</p> <p>Practical activity</p> <p>1.Observations of slides (T.S.male & female gonads,& blastula slide) virtual slides/ permanent slides & draw the labelled diagrams of each slide observed</p>	
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	<p><u>UNIT-GENETICS and EVOLUTION</u></p> <p>Principles of Inheritance (9 classes)</p> <ol style="list-style-type: none"> 1. Mendel's laws of Inheritance- 2. One gene Inheritance 	<p>Each child will be able to-</p> <ul style="list-style-type: none"> ❖ Recall various laws. ❖ Explain the method used by Mendel in his experiments. ❖ Interpret the law by studying the ratios of F₂ generation. 	<p><u>For flipped learning-</u></p> <ul style="list-style-type: none"> ● Class discussion on Reproductive health problems & need to develop strategies ● Completing graphic organizer on ART and Birth control measures. <p><u>ART INTEGRATION-</u> Design a poster for creating awareness on reproductive health of females in India.</p> <p><u>For the flipped classes:</u></p> <p>www.flipcart.com.org.nz/.inheritance/ on Mendel</p> <p>https://www.youtube.com/watch?v=cWt1RFnWNzk-- Mendel's expt.</p> <p>Activity- Individual List alternative form of each trait studied by Mendel & make a flow chart on Mendel's work.</p> <p>Solve the given crosses based on two gene inheritance. Write the conclusions based on F₁ & F₂ generation for each given problem based on one gene inheritance.</p>	<p>Google docs, Google form</p>
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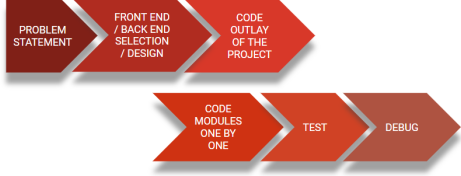
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Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	<ul style="list-style-type: none"> ● Application of Derivatives <ul style="list-style-type: none"> ❖ Maxima and Minima ● Integrals <ul style="list-style-type: none"> ❖ Introduction ❖ Integration by substitution ❖ Integration by Trigonometric Substitution ❖ Special integrals ❖ Integration by parts 	<p>Each student will be able to:</p> <ul style="list-style-type: none"> ● identify the points of local maxima and local minima graphically and algebraically. ● state the first and second derivative test to find points of local maxima and minima. ● apply the first and second derivative test to examine local maxima and local minima. ● differentiate between absolute and local maxima/minima. ● use derivatives to find points of absolute maxima and minima. ● apply the concept of max/min to solve word problems. ● define the concept of antiderivative. ● learn the integral of basic functions by method of inspection. ● integrate by substitution. ● apply the method of substitution to solve problems of integration. ● state special integral formulae. ● apply special integral formulas to find the integral. ● state the formula for Integration by parts. ● integrate using the method of Integration by parts. 	<ul style="list-style-type: none"> ● Math Lab Activities <ul style="list-style-type: none"> ❖ To understand the concepts of local maxima, local minima and point of inflection. ❖ To construct an open box of maximum volume from a given rectangular sheet by cutting equal squares from each corner. ● Flipped learning: <ul style="list-style-type: none"> ❖ Read solved examples from NCERT book. ❖ Videos on Maxima, Minima and Integrals. ❖ Handouts on Maxima/Minima and integrals. 	<p>Short test</p> <p>NCERT Questions(Class work/Homework)</p> <p>Google forms</p> <p>Assignment</p> <p>Case study</p> <p>Periodic Test-1</p>


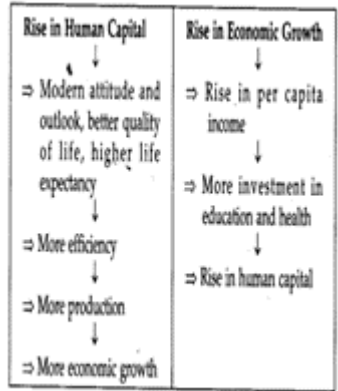
	<p>Writing Skill Letter to the Editor</p> <p>Prose</p> <p>Ratrap</p>	<ul style="list-style-type: none"> ● Infer symbolism used in poetry ● Analyze the theme of the poem- necessity of intuitively following the adage 'Live and Let live'. ● Critically evaluate impact of human actions on earth and various Species <p>Format, content and expression</p> <ul style="list-style-type: none"> ● Interpret title of the lesson ● Sequence the events ● Identify plot and theme ● Evaluate whether the peddler was honest or a cheater ● Synthesize possible alternate end of the story 	<p>Class discussion on the topic Man needs Earth not vice-versa</p> <p>Raise a debate on –'War has no Winners' Ukraine -Russian https://youtu.be/LK6Aek7gBbo</p> <p>Brainstorming on the following questions.</p> <p>Are you tempted by any thing in life or have you fallen to any of the temptation which made you do even wrong?</p> <p>Do you think a sense of guilt after committing a crime is punishment in its own right? Can a person ever change his perspective towards life?</p> <ul style="list-style-type: none"> ● Vocabulary enrichment <p>Independent Learning Link: https://www.youtube.com/watch?v=pGgnyj8Oyvo</p>	
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<p>Physics</p>	<p>18 classes</p> <p>Moving Charges and Magnetism</p> <p>Magnetic Force Lorentz Force Magnetic force on a current carrying conductor Motion in a magnetic field Cyclotron Galvanometer Conversion of galvanometer into ammeter and voltmeter.</p> <p>Electromagnetic induction.</p> <p>Faradays laws</p> <p>Lenz's law</p> <p>Self Induction</p> <p>Mutual Induction</p> <p>Eddy currents</p> <p>Alternating current</p>	<p>Calculate the force experienced by a moving charged particle in a crossed electric and magnetic field</p> <p>Solve numerical based on Lorentz force</p> <p>Explain the working of a velocity selector.</p> <p>State Biot Savarts law</p> <p>Express it mathematically in vector notation</p> <p>Apply Biot Savart law to calculate the magnetic field due to different current carrying elements.</p> <p>State Ampere's circuital law</p> <p>Apply Ampere's circuital law to derive the magnetic field due to a long conductor.</p> <p>Apply Ampere's circuital law to derive the magnetic field due to toroid.</p> <p>Solve numericals based on conversion of galvanometer into</p>	<p>WAR of Currents</p> <p>Dialogue between Edison and Tesla using pictures.</p>  <p>Art Integration on Michael Faraday:</p> <p>Story telling:</p> <p>https://www.youtube.com/watch?v=a</p>	<p>Liveworksheet:</p> <p>https://www.liveworksheets.com/ao1470714ii</p> <p>Practice Module on Diksha</p> <p>https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Practice module 2:</p> <p>https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Practice Module on Diksha</p> <p>Practice module 3:</p> <p>https://diksha.gov.in</p>

	<p>Ac and Dc current</p> <p>Average and rms values of current and voltage</p>	<p>ammeter and voltmeter. Explain the working of a galvanometer.</p> <p>How can a galvanometer be converted into an ammeter and a voltmeter?</p> <p>Justify the use of radial field in a galvanometer</p> <ul style="list-style-type: none"> · State Lenz's law · Define self inductance · Define mutual inductance · State application of eddy currents · Differentiate between the alternating and direct current · draw phasor diagrams of various circuits · Calculate impedance of an LC, RC and RLC circuit <p>Practical</p> <p>To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.</p> <p>To find the frequency of AC mains with a sonometer.</p>	<p>rf8wDP MJE</p> <p>Hands on Activity:</p> <p>Build your own Motor.</p> <p>https://www.nationalgeographic.org/activity/round-and-round-simple-motors/#how-to-build-a-simple-motor</p> <p>Mind Map:</p> <p>https://diksha.gov.in/play/collection/do_3131034753990656001756?contentId=do_31308508568118067211189</p>	<p>n/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Practice module 4: https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Practice module 5: https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Students will practice the questions on Quizziz.</p> <p>https://quizzz.com/admin/quiz/61003c72c9711e001b0e8d6a/flemings-left-hand-rule</p>
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<p>Chemistry</p>	<p>Biomolecules Carbohydrates Classification structure importance Protein-Types, enzymes Denaturation of protein Vitamins deficiency diseases Nucleic acid DNA & RNA</p> <p>Solid state</p> <p>Interatomic force Types of solids Packing in solids Density calculation Common defects</p>	<p>Each student will be able to:</p> <ul style="list-style-type: none"> •Define bio molecules Like carbohydrates, Protein & nucleic acid •Learn different type of proteins •Explain different type of carbohydrates •Learn about deficiency diseases •Explain the difference between DNA and RNA •compile the role of these Biomolecules In biosystem <p>Each student will be able to:</p> <ul style="list-style-type: none"> ▪Classify solids on the basis of binding forces ▪Understand structure of solids and unit cells, lattice, ▪Describe packing pattern in solids in 2D and 3D. ▪Calculate efficiency of packing. ▪Explain structure of ionic solids ▪Analyze the effect of dislocation in solids 	<p>Study of Classification of proteins and properties</p> <p>Digital Collage of different biomolecules properties and uses Justify: DNA is the chemical basis of heredity and may be regarded as the reserve of genetic information.</p> <p>https://www.youtube.com/watch?v=MkqtHP9MhDs&t=103s</p> <p>https://www.youtube.com/watch?v=MkqtHP9MhDs</p> <p>Make a list of different Types of Solids around you Create a mind map of the formula used in structure of solids Packing in crystal: https://www.youtube.com/watch?v=iPb8vRtroLU https://www.youtube.com/watch?v=RcG9e2Bg3eE</p> <p>https://www.youtube.com/watch?v=B1JzFAD1GAo</p>	<p>Assignment NCERT questions Open book test Worksheets Google form:MCQ</p>
<p>Computer Science</p>	<p>CSV files –(5 days) Insert, Delete, Search, Modify, Display</p> <p>Unit III: Database -Management:- (11 days) REVISION</p>	<p>Students will – =>be able to read/write text files =>be able to read files letter by letter/ word by word/ sentence by sentence</p> <p>Students will be able to– =>Create Binary Files</p>	<p>Resources: Online demonstration of programming codes using Python software,MYSQL Computer & projector Text Book</p>	<p>Worksheets Lab Assignments Quizzes</p> <p>Class Test on MYSQL table creation, Queries and Stating Output of</p>

	<p>Database Concepts: Introduction to database concepts and its need. Relational data model: Concept of domain, relation, tuple, attribute, degree, cardinality, key, primary key, candidate key, alternate key and foreign key; Structured Query Language: General Concepts: Advantages of using SQL, Data Definition Language and Data Manipulation Language; Data Types: number / decimal, character / varchar / varchar2, date; SQL commands: SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, LIKE, NULL / IS NULL, ORDER BY, GROUP BY, HAVING; SQL functions: SUM (), AVG (), COUNT (), MAX () and MIN (); Joins: equi-join and natural join PROJECT WORK – (2 DAYS)</p>	<p>=>apply tell() and seek() for random file pointer movement =>Insert and display records =>Search Records =>Modify records =>Delete Records</p>	<p>PYTHON PROJECT - CSV FILES</p>  <p>Technology Online:</p> <p>Websites: https://www.geeksforgeeks.org/ https://www.w3schools.com/python/ http://python.mykvs.in/index.php https://www.w3schools.com/mysql/default.asp</p> <p>Google Form/Quiz/Kahoot Google Classroom</p>	<p>queries based on CBSE papers</p>
<p>Economics</p>	<p>Money and Banking-8 Meaning Supply of money Credit creation</p>	<p>Each student will be able to: Comprehend the meaning of money and its functions. Supply of money and its measures.</p>	<p>Identify different banks from logos. Able to identify a fake currency from genuine one.</p>	<p>Weekly test Google forms Quiz</p>

	<p>Central bank, its role and Functions</p> <p>Human Capital formation</p> <p>How people are a resource.6</p> <p>Role of human capital in development</p>	<p>Develop the understanding of money creation by commercial banks and functions of central banks. Explain the process of credit creation by commercial banks.</p> <p>Role of human capital formation Problems Factors affecting human capital</p> <p>Each student will be able to identify the importance of human capital formation. Identify the ways its done. Comprehend the difference between human development and capital formation.</p> <p>Critically appraise the current education scenario.</p> <p>The concepts of Human Resource, Human Capital Formation and Human Development</p> <p>The links between investment in human capital, economic growth and human development</p>	<p>Understand how important is RBI for the country and how it controls the supply of money in the economy.</p> <p>Debate on E-currency</p>  <p>Look at the picture and identify the components.</p>  <p>Identify the differences along with examples.</p>	<p>Worksheets Google forms Peardeck</p> <p>Worksheets Google forms Peardeck MCQ</p>
<p>Psychology</p>	<p>Chapter 2 – Self and Personality</p> <ul style="list-style-type: none"> Self and Personality 	<p>Students will be able to:</p> <ul style="list-style-type: none"> Explain the concept of Self and ways of 	<ul style="list-style-type: none"> Interpret the personality of your friend by using Sentence Completion Test. 	

	<ul style="list-style-type: none"> ● Concept of Self ● Cognitive and Behavioural aspects of Self ● Concept of Personality and Major approaches to Personality ● Assessments of Personality 	<p>self-regulation of behaviors</p> <ul style="list-style-type: none"> ● Define important terms like self-esteem, self-concept, self-efficacy and self-regulation ● Differentiate between the Indian and western view of self ● Differentiate between type and trait approaches ● Explain the approaches to personality in detail (Especially highlighting the keywords) ● Discuss techniques of personality assessment 	<ul style="list-style-type: none"> - For conducting, the students have to make 10 incomplete statements on self and administer on their friend. ● If you were asked to change one aspect of your life, what would you like to change and why? If not, why? Which aspect of your personality you would never like to change? Share it with the class. 	<ul style="list-style-type: none"> ● PowerPoint Presentation by students (group activity) ● Quiz ● Class Test - Google form
Biology	<p>Principles of Inheritance (6 classes) CONTD.</p> <ol style="list-style-type: none"> 1. Inheritance of two genes 2. Sex determination 3. Mutations 4. Genetic disorders 	<p>Each child will be able to-</p> <ul style="list-style-type: none"> ❖ Draw analogy between gene inheritance & chromosomal behaviour. ❖ Relate Morgan's work to discovery of phenomenon of Linkage ❖ Explain the relationship of linkage & crossing over. ❖ Analyze human genetic disorders using pedigree. ❖ Explain the scientific process that led to identifying the process of sex determination in different organisms ❖ Write differences as well as 	<p><u>Flipped learning-</u></p> <p>https://www.youtube.com/watch?v=Wuk0W10EveU-- pedigree</p> <p>https://www.youtube.com/watch?v=svtHWJdQYOk-- analysis of pedigree</p> <p>https://www.youtube.com/watch?v=GieZ3pk9YVo-- mutations</p> <p>Class activity- identify the given pedigrees based on human traits</p> <p>Make a mind map illustrating mutations</p> <p><u>Research activity-</u></p>	<p>Weekly test</p> <p>Class assignments</p> <p>Worksheets</p> <p>Google form</p>

	<p>Molecular basis of Inheritance (9 classes)</p> <p>The DNA The search for Genetic Material RNA world Replication</p>	<p>symptoms of Mendelian & chromosomal disorders.</p> <p>Each child will be able to-</p> <ul style="list-style-type: none"> ❖ Identify DNA as the genetic material giving its features. ❖ Describe the structure of molecules making DNA. ❖ Label the components of DNA molecule ❖ Compare DNA & RNA Molecule ❖ Recall the experiment establishing DNA as the genetic material. 	<p>Collect information on genetic disorders related to X chromosomes</p> <p>https://diksha.gov.in/play/content/do_31320396775774617614257 for extended learning</p> <p>https://filmpulse.net/a-banquet-review/</p> <p>watch the movie Banquet based on heredity followed by the class discussion</p> <p>Class activity https://quizlet.com/17830784/mendels-work-flash-cards/ https://www2.palomar.edu/anthro/mendel/flashcards_1.htm Flash cards</p> <p>For flipped learning</p> <p>AR on DNA structure</p> <p>Quizzes- on the structure of DNA as genetic material</p> <p>https://www.youtube.com/watch?v=uXdzuz5Q-hs--DNA</p> <p>https://www.youtube.com/watch?v=t9xBHPz_3ro-Griffiths expt. https://www.youtube.com/watch?v=X1cd68YkVdM-Hersey chase expt.</p>	
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			https://www.youtube.com/watch?v=uXdzuz5Q-hs-- DNA https://www.youtube.com/watch?v=t9xBHPz_3ro –Griffiths expt. Draw a labelled diagram of DNA molecule. <ul style="list-style-type: none"> ● Make a flowchart on Griffiths & Hershey & Chase experiment. ● Make a well labelled diagram of the replication fork 	
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JULY

Subject	Topics to be Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	<ul style="list-style-type: none"> ● Integrals <ul style="list-style-type: none"> ❖ Integration by partial fractions ❖ Definite integral ❖ Properties of Definite Integrals 	<p>Each student will be able to-</p> <ul style="list-style-type: none"> ★ apply the method of partial fractions to integrate ★ make sense out of concept of definite integral of a function ★ evaluate definite integral using the fundamental theorem of calculus. ★ apply the properties of definite integrals in solving questions 	<ul style="list-style-type: none"> ● Math Lab Activity: To evaluate the definite integral $\int_a^b \sqrt{1-x^2} dx$ as the limit of a sum and verify it by actual integration. 	Through small tests in fundamentals Class work Home work Google Forms Oral questioning Quiz

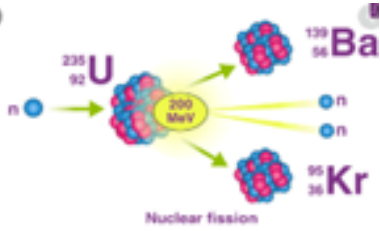
	<ul style="list-style-type: none"> ● Application of Integrals <ul style="list-style-type: none"> ❖ Area under a curve ● Differential Equations <ul style="list-style-type: none"> ❖ Order and degree ❖ General and particular solution ❖ Variable separable form 	<p>Each student will be able to</p> <ul style="list-style-type: none"> ★ sketch the various standard curves ★ calculate the area under simple curves, area of the region bounded by a curve and a line <p>Each student will be able to</p> <ul style="list-style-type: none"> ★ identify an equation involving derivatives of the dependent variable with respect to independent variable as a differential equation. ★ distinguish between order and degree of any differential equation and state the order and degree(if any) ★ solve a differential equation and find its general solution and also particular solution ★ apply variable separable method to solve an equation in which variables can be separated completely 	<ul style="list-style-type: none"> ● Quiz to test on standard equations of conic sections. ● Experiential Activity : <ul style="list-style-type: none"> ❖ To find the area of a leaf ❖ To observe the types of curves formed when a bucket of still water is disturbed by throwing a coin in it ● Quiz on degree and order of a differential equation ● Art Integrated Learning: Find a pattern of family of curves in a picture of S H Raza and also sketch it. 	<p>MCQs https://diksha.gov.in/play/content/do_31308876685309542412 14</p>
<p>English</p>	<p>Prose : The Enemy (06)</p>	<p>Every Student will be able to</p> <ol style="list-style-type: none"> 1. answer short and long answer questions 2..sensitised towards humaneness in war 	<p>Flipped Learning students will be shown a clipping from the movie, 'Pearl Harbour' and asked the following questions: a) What do you think is happening here? How many World Wars have taken place so far?</p>	


	<p>Poetry- A Thing of Beauty</p>	<p>3. Critically evaluate the statement 'Fanatic behavior corrodes practical thinking'</p> <p>4. Acquire personality traits like generosity, love, trust, honesty, care and concern</p> <p>Every student will be able</p> <ul style="list-style-type: none"> i. to understand the poem. ii. Critically analyze the poem. iii. Find out the figures of speech used in the poem. iv. read the poem with proper voice modulation, punctuation, and intonation. 	<p>b) Elaborate upon the conflict in Sadao's mind in light of the Hippocratic oath for doctors</p> <p>https://i.etsystatic.com/9418101/r/il/6df2e6/2644915730/il_fullxfull.2644915730s0md.jpg</p> <p>The session would begin with an interaction.</p> <p>The learners would interpret the title of the poem</p> <p>Independent Practice</p> <p>Based on the poem, express your views on 'Grandeur associated with the 'mighty dead'</p> <p>Brainstorming (Buzz Session)</p> <ul style="list-style-type: none"> . Do we experience things of beauty only for short moments or do they make a lasting impression on us? (Relational) <p>2. Nature promises man comforts against all odds. But it is for man to recognize them. Explain</p> <p>As an Introduction:</p> <p>An Antidote to Dissatisfaction</p> <p>https://youtu.be/WPPPFqsECz0</p> <p>A brainstorming on dissatisfaction among young adults</p> <p>Hero worship and adolescents A way</p>	<p>CBSE question answers</p> <p>Google forms</p> <p>Worksheet and assignments</p> <p>CBSE question answers</p> <p>Google forms</p>
	<p>Prose- Going Places</p>	<p>1 Acquire an ability to form opinions and express them with clarity.</p> <p>2 ,be able to develop sensitivity towards their culture, aspects of</p>		

	<p>Report Writing</p> <p>Prose- The Interview</p>	<p>contemporary life.</p> <p>3. students will be able to analyse the themes. <i>Fantasy vs. Reality</i></p> <p><i>Family vs. Individuality</i></p> <p><i>Class vs. Ambition</i></p> <p><i>Limitations of Gender Roles</i></p> <p>1. Learn the proper format of report writing</p> <p>2. Understand the purpose and types of report writing</p> <p>3. Understand the difference between News and Magazine reports</p> <p>4. Recognize the distinctive features of each type of report</p> <p>5. Write a report in a clear, concise, effective manner</p> <p>Every student will be able to Explain the positive and negative aspects of interviews</p> <p>Enumerates the characteristics of Umberto Eco's writings</p> <p>Answer a test on the lesson</p> <p>Prepares a questionnaire for an interview with a writer.</p>	<p>of escape ; hope Song</p> <p>songLab - Hero ft. Seph Schlueter (Lyrics)</p> <p>https://youtu.be/lr5hTLQVeFw</p> <p>discussion / brainstorming /Q+A</p> <p>https://create.kahoot.it/share/duplicate-of-report-writing-2021/c86f36ec-e88b-412b-aa2f-2722f08e5250</p> <p>(Genesis of interviews)</p> <p>Genesis of Interview 2376-Article Text-7157-1-10-20140114.pdf</p> <p>(Worksheet 1)</p> <p>https://drive.google.com/file/d/1Cq_XRT RqZDWROI_moVh1vuBBqQH3Cwgg/view?usp=sharing</p>	<p>Worksheet and assignments</p> <p>https://drive.google.com/file/d/1N9UnKgmLgauF_qYFkf9-Q3o7ZqInj9fj/view?usp=sharing</p> <p>(Assignment)</p>
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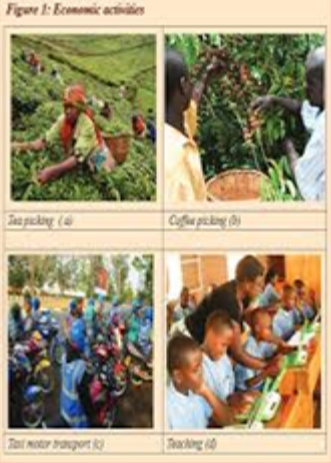
<p>Physics</p>	<p>UNIT 4</p> <p>Electromagnetic Induction (5)</p> <ul style="list-style-type: none"> • Faradays laws (1) • Lenz's law(1) • Self Induction (1) • Mutual Induction (2) • Eddy currents (1) <p>Ac and Dc current</p> <p>Alternating current (9)</p> <ul style="list-style-type: none"> • Ac and Dc current (1) • Average and rms values of current and voltage (1) • Power (1) • Power factor (1) • Impedance triangle (1) • Quality factor (1) • Phasor Diagrams(2) • Transformers (1) 	<p>State faradays laws of electromagnetic induction</p> <ul style="list-style-type: none"> • State lenz's law • Define self inductance • Define mutual inductance • State application of eddy currents <ul style="list-style-type: none"> • Differentiate between the alternating and direct current • draw phasor diagrams of various circuits • Calculate impedance of an LC, RC and RLC circuit • Ac generator and transformer • Describe transient current, electric oscillations, electrical resonance • Analyse graphs to predict the circuits with better quality factor • Explain the construction of a transformer. 	<p>WAR of Currents</p> <p>Dialogue between Edison and Tesla using pictures.</p>  <p>Art Integration on Michael Faraday:</p> <p>Story telling:</p> <p>https://www.youtube.com/watch?v=arf8wDP_MJE</p> <p>Hands on Activity:</p> <p>Build your own Motor.</p> <p>https://www.nationalgeographic.org/activity/round-and-round-simple-motors/#how-to-build-a-simple-motor</p>	<p>Liveworksheet:</p> <p>https://www.liveworksheets.com/ao1470714ii</p> <p>Practice Module on Diksha</p> <p>https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Practice module 2:</p> <p>https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=TextBook</p> <p>Practice Module on Diksha</p> <p>Practice module 3:</p> <p>https://diksha.gov.in/resources/play/</p>
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			<p>Mind Map:</p> <p>https://diksha.gov.in/play/collection/do_3131034753990656001756?contentType=T568118067211189</p>	<p>collection/do_3131034753990656001756?contentType=T568118067211189 extBook</p> <p>Practice module 4: https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=T568118067211189 extBook</p> <p>Practice module 5: https://diksha.gov.in/resources/play/collection/do_3131034753990656001756?contentType=T568118067211189 extBook</p> <p>Students will practice the questions on Quizziz.</p> <p>https://quizziz.com/admin/quiz/61003c72c9711e001b0e8d6a/fl-emings-left-hand-rule</p>
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Chemistry	<p>Electrochemistry(12) Electrochemical cells and Emf calculation Relation between Equilibrium constant and Gibb's free energy change</p> <p>Movement of ions and conductivity Measurement of conductivity of electrolytic solutions Kohlrausch law and its applications;</p> <p>Quantitative aspect of electrolysis</p> <p>Commercial cells and fuel cells</p> <p>Chemical Kinetics (6) Introduction and expression for rate of reaction. Rate constant and rate laws Factors affecting rate of reaction Concentration, Temperature, Catalyst Integrated rate law Zero and first order reaction Collision theory</p>	<p>Define an electrochemical cell and represent it Predict cell reactions at electrodes of a galvanic cell. Differentiate between electrochemical and electrolytic cell Calculate emf of the cell from Nernst equation Correlate equilibrium constant ,free energy and work done by the cell Define terms: conductivity, resistivity, Molar conductivity, State Kohlrausch law and express it mathematically Differentiate between electrolytic and metallic conductance Correlate mass of substance deposited with quantity of electricity</p> <p>Predict the product of rusting ,harmful effect of rusting</p> <p>Each student will be able to: - Define and distinguish between average and instantaneous rate - Express the rate of reaction in terms of concentration .of reactants - Enlist at least three factors on which rate depend. discuss the dependence of rate of reactions on concentration, temperature and catalyst - Distinguish between order and</p>	<p>www.funsci.chem/fun3-en/elecrochem</p> <p>https://www.youtube.com/watch?v=0oSgPDD2rMA</p> <p>(for working)</p> <p>https://www.youtube.com/watch?v=0oSgPDD2rMA</p> <p>Flipped learning - Based on shared links and NCERT book</p> <p>Experiential activity- Construction of Galvanic cell and study of EMF .</p> <p>Study of nuclear disintegrations</p>  <p>https://www.youtube.com/watch?v=602063c-qzU&t=1470s</p>	<p>Assessment of Numericals and derivations done</p> <p>Qs from board paper</p>
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		<p>molecularity</p> <ul style="list-style-type: none"> Derive the integrated rate law for zero, first and second order reactions 	<p>http://study.com/academy/topic/chemistry-kinetics-lesson-plans.html</p> <p>http://study.com/academy/lesson/collision-theory-definition-significance.html</p> <p>https://diksha.gov.in/play/content/do_313069529091948544190</p>	
<p>Computer Science</p>	<p>MySQL-PYTHON Connectivity: (20 days) + project work Interface of Python with an SQL database -Connecting SQL with Python -Creating database connectivity Applications - Performing Insert, Update, Delete queries - Display data by using fetchone(), fetchall(), rowcount</p>	<p>Each student will be able to :</p> <ul style="list-style-type: none"> Create interface of Python with an SQL database Connect SQL with Python Create Database connectivity Applications - Perform Insert, Update, Delete queries Display data by using fetchone(), fetchall(), rowcount Apply aggregate functions in queries Integrate SQL with Python by importing the MySQL module 	 <p>Learning Activity</p> <ul style="list-style-type: none"> Create a database and insert records in it. Perform queries according to the requirements Perform queries based on the user requirements Apply Aggregate functions and group the data according to the queries <p>Teacher's Resources</p> <p>https://docs.google.com/presentation/d/15v1BZBB0u84kBs8kDLXLkYv-vh8b7709yMcXsjxd-DM/edit?usp=sharing</p>	<p>Lab Test on Creating a library of mathematical functions</p> <p>Database queries</p> <p>Jam board Test/ Class test - SQL queries</p>

			<p>https://docs.google.com/presentation/d/17ENZYc0U4vmGsiGyAyb-zwCSSv3tg2NR/edit?usp=sharing&ouid=115343870033980011109&rtpof=true&sd=true</p> <p>Worksheets -</p> <p>Lab Assignments</p> <p>Solve SQL queries</p> <p>Project work</p>	
Economics	<p>National Income National Income and Related aggregates.</p> <p>Methods of calculating national income</p> <p>Deriving the formulas</p> <p>Aggregates related to national income Real and Nominal GDP</p>	<p>Each student will be able to:</p> <ul style="list-style-type: none"> ● Identify the different methods for the measurement of national income ● Define income method ● Know expenditure method ● Classify factor income ● Analyze the circular flow of income ● Discover the flow of income in various sectors. ● Analyze the interdependence of the 3 methods 	<p>Playing a game may be able to create a spirit of competition and challenge through which Learning may be enhanced.</p> <p>Flashcards of different NIA aggregates such as NDP at factor cost, NNP at market price.</p> <p>Flipped Classroom</p> <p>The students will watch the link on you-tube and practice numerical in class.</p> <p>Collect articles related to changes in GDP from the newspaper for discussion.</p>	<p>Class tests</p> <p>Pear deck revision</p> <p>question- for classroom assessment</p> <p>Google forms</p> <p>Jam boards</p> <p>Worksheets</p> <p>Use Economic Times newspaper, Economic magazines as yojana, to know</p>

			  <p>Identifying the sectoral contribution. Increase in per capita income means increase in per capita availability of goods and services. Does it necessarily mean a rise in the welfare of the people in the country? Give two arguments in support of your answer and explain the same.</p> <p>ART INTEGRATION- Using different forms of art students will make a collage on the various aspects of national income</p>	<p>about the status of national income of a country</p>
<p>Psychology</p>	<p>Chapter - 4 Psychological Disorders</p>	<p>Each student will be able to:-</p>	<ul style="list-style-type: none"> ● Individual Activity: Reflection journal on how to cope effectively with anxiety 	<ul style="list-style-type: none"> ● Role Play

	<ul style="list-style-type: none"> ● Concepts of abnormality and Psychological Disorders (6 classes) ● Classification of Psychological Disorders (1 class) ● Factors Underlying Abnormal Behaviour (4 classes) ● Major Psychological Disorders (17 classes) 	<ul style="list-style-type: none"> ● Understand the basic issues in abnormal behaviour and the criteria used to identify such behaviours, ● Identify the factors which cause abnormal behaviour, ● Explain the different models of abnormal behaviour, ● Describe the major psychological disorders ● Identify the symptoms and criterias for diagnosing 	<ul style="list-style-type: none"> ● Group Activity: Presentation on different psychological disorders ● Assignment: Through a flow chart show how different factors contribute to abnormal behavior. 	<ul style="list-style-type: none"> ● Group Discussions ● Kahoot Quiz ● Class Test
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<p>Biology</p>	<p>1.Molecular basis of inheritance: -8 classes</p> <p>DNA structure, search for genetic material, RNA world, Replication, transcription, translation, Genetic code, regulation of gene expression, Human genome project, DNA fingerprinting</p>	<p>List the characteristics of DNA as the genetic material. Describe the chemical structure of DNA molecules. Recall the experiment for establishing DNA as the genetic material. know the properties of genetic code, Explains the process of gene expression , translation & transcription along with illustrations</p> <p>Infers the base assignment of RNA from the base assignment of DNA</p> <p>Explain therole of components of operon for regulation of gene expression. Specify the main points of Human genome project, goals & revelations. List the sequence of various steps involved in DNA fingerprinting & principle involved in it.</p>	<p>Read concepts from the NCERT & watch the videos assigned</p> <p>AR on DNA structure</p> <p>https://www.youtube.com/watch?v=uXdzuz5Q-hs-- DNA</p> <p>https://www.youtube.com/watch?v=5qSrmeiWsuc&ebc=ANyPxKqOAOcK4FFX63pAH1qaDT9_K4W-h4ddgG5CexSAwxjh76wh4Q8lb --DNA</p> <p>https://www.youtube.com/watch?v=t9xBHPz_3ro –Griffiths expt.</p> <p>https://www.youtube.com/watch?v=X1cd68YkVdM –Hersey chase expt.</p> <p>https://www.youtube.com/watch?v=s4E2D_1LIXk&ebc=ANyPxKoD6DkSNX_-riYmsQN1aK3y0sjYJHHly-2F3tEyaxf1DieJ_Fxd3ovXTmhpE80lzNnXeturTuSKqE_J1G4FI_8d5FfSg-- Hershey Chase expt.</p> <p>https://www.youtube.com/watch?v=JcUQ_TZCG0w messelson & stahl expt.</p> <p>https://www.youtube.com/watch?v=</p>	<p>Worksheets, Google docs Class test.</p>
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REVIEW-

<https://quizlet.com/20640413/flashcards>

molecular basis link

For flipped learning- follow up activities-

Think, pair & share using

Activity sheet having with unlabelled molecular structures & misplaced sequences of the processes for DNA & RNA

Make flow charts based on the concepts of gene expression.

Brain storming & quizzes as preassessment activity.

AIL-Design a cartoon related to molecular basis of inheritance.

Experiential learning

	<p>2.Evolution-6 classes Origin of life, theory of evolution, Evidences of evolution, What is adaptive radiation, Biological evolution, Mechanism of evolution, Hardy- Weinberg principle & Origin & evolution of man.</p>	<p>Recall the experiments related to understanding evolution of life.</p> <p>Identifies homology & analogy of different organs in plants & animals.</p> <p>Write the evolutionary timeline of vertebrates & various plant groups.</p>	<p>Study the pedigree analysis of one of the human trait & comment on the genotype regulating the inheritance of the trait.</p> <p>For flipped class- children will be shown the image of the urey Millers experiment to answer the questions that will be given as the follow up activity.</p> <p>https://study.com/learn/lesson/abiogenesis-theory-experiments-examples.html</p> <p>abiogenesis.</p> <p>Make concept map on evidences of evolution.</p> <p>Questions based on mechanisms of evolution.</p> <p>How does Hardy weinberg's principle support evolution?which factors affect it?</p>	<p>Worksheets , Google docs. Question answers in the class.</p>
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			<p>Make a graphic organizer on evolution of humans.</p> <p>Art integration-Role play or a song on timeline of evolution of animals on earth.</p> <p>Transdisciplinary activity- Will technological evolution affect evolution in living organisms? Why or why not?</p> <p>Experiential learning- Studying specimens of homologous & analogous organs</p>	
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AUGUST

Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	<ul style="list-style-type: none"> • Differential Equations <ul style="list-style-type: none"> ❖ Homogeneous differential Equation ❖ Linear differential equation of first order. 	<p>Each student will be able to</p> <ul style="list-style-type: none"> ★ identify and solve a differential equation that can be expressed in the form $dy/dx = f(x,y)$ or $dx/dy = g(x,y)$ as homogeneous differential equation ★ identify and solve a differential equation of the form $dy/dx + Py = Q$ and $dx/dy + Px = Q$ as a first order linear differential equation. 	<p>LA:</p> <ul style="list-style-type: none"> • Students will watch the relevant video at home • Read NCERT examples at home 	<p>Through small tests in fundamentals</p> <p>Class work</p> <p>Home work</p> <p>Google Forms</p> <p>Oral questioning</p>

	<ul style="list-style-type: none"> ● Inverse Trigonometric Functions <ul style="list-style-type: none"> ❖ Domain, range and graphs ❖ Principal values ❖ Properties of inverse trigonometric functions. ● Linear Programming Problem(LPP) <ul style="list-style-type: none"> ❖ LPP as optimization problems ● Probability <ul style="list-style-type: none"> ❖ Conditional probability 	<p>Each student will be able to</p> <ul style="list-style-type: none"> ★ define inverse trigonometric functions ★ state the domain and range of inverse trigonometric functions ★ sketch the graph of inverse trigonometric functions ★ use properties of inverse trigonometric functions to solve questions <p>Each student will be able to</p> <ul style="list-style-type: none"> ★ identify objective function , non-negative restrictions and constraints of a LPP ★ plot the feasible region on graph. ★ describe a linear programming problem as a one that is concerned with finding the optimal value (maximum or minimum) of a objective function of several variables that are non – negative and satisfy a set of linear constraints ★ solve graphically the linear programming problems by corner point method by identifying feasible region (bounded and unbounded), corner points and thus finding the optimal feasible solution <p>Each student will be able to</p>	<p>LA:</p> <ul style="list-style-type: none"> ● Watch the related video at home. <p>Math Lab Activity:</p> <ul style="list-style-type: none"> ● To draw the graph of $\sin^{-1} x$, using the graph of $\sin x$ and demonstrating the concept of mirror reflection (about the line $y = x$) 	<p>Quiz</p> <p>MCQ: https://diksha.gov.in/play/content/do_31309425016164352011711</p>
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	<ul style="list-style-type: none"> ❖ Multiplication theorem ❖ Independent events 	<ul style="list-style-type: none"> ★ define and find the conditional probability of an event E, given the occurrence of the event F * list the properties of conditional probability ★ apply multiplication theorem on probability ★ define independent events and check whether the given events are independent or not. 		
English	Prose- Journey to the end of the Earth	<p>Each student will be able to</p> <ul style="list-style-type: none"> • Develop proficiency for abstract thought and knowledge acquisition. • Demonstrate silent reading, oral feedback and detailed account of the lesson. • Infers meanings from contexts and describes them with clarity. • Participate constructively in Group Discussion. 	<p>Antarctica is a crucial element in the debate over climate change as there is fear of melting of glaciers in Antarctica because :</p> <p>A. Locate references of the above statement given in the text. B. Note down the sentences, expressions from the text.</p> <p>Flipped learning Read more to find more information on The Paris Agreement (pact within the United Nations Framework Convention on Climate Change (UNFCCC) between 197 countries).</p> <ul style="list-style-type: none"> •Visit the official sites and read about the agreements and conventions on Climate change. •While reading, take down notes. Share and discuss with the teacher and peers. • Brainstorming and raising a debate on 'Discrimination against women' • What ordeals do you think Aunt Jennifer is surrounded by? 	<p>CBSE Q/Ans</p> <p>Class assignments</p> <p>Google forms</p> <p>Worksheets</p>

	<p>Poetry- Aunt Jennifer's Tiger</p>	<p>Every student will be able to</p> <ul style="list-style-type: none"> • Interpret theme of the poem • Critically analyze the poem • list out the figures of speech in the poem • Discern and describe various equalities they see in different forms around them • Discussion of the poem-male chauvinism and gender conflicts. 	<p>Warm up https://drive.google.com/file/d/10K6KIFFgW1u3fbrN6k4tJ0Fgb6EyWTdT/view?usp=sharing</p> <p>Mind Map https://diksha.gov.in/play/content/do_31306916470235136012</p> <p>Figures of speech https://drive.google.com/file/d/11InSkvydxErJErcwU26CtCf4FmSWxan0/view?usp=sharing</p>	<p>Quiz CBSE Q/Ans</p>
	<p>Poem- A Roadside Stand</p>	<p>Every student will be able to</p> <ol style="list-style-type: none"> i) understand the contrast between the lives of rich and poor ii) acquaint themselves with the world around them iii) learn not only from books but from the examples around them iv) comprehend the poem and enhance the vocabulary v) identify the figures of speech vi) understand that the economic well being of a country depends on a balanced development of the villages and cities 	<p>Introduction</p>	


	<p>Prose- Indigo</p> <p>Writing Skill: • Formal and Informal Invitations • Replies to Formal and Informal Invitations</p>	<p>Every student will be able to Relate thoughts, ideas, views and opinions fluently with proper pronunciation Explain the importance of the Champaran episode Provides correct answers to questions based on the lesson</p> <p>Every student will be able to: 1. explain the difference between formal and informal invitations 2. Learn the formats for both kinds of invitations and their replies 3. Draft their own invitations and replies to invitations as per situations provided to them.</p>	<p>https://www.youtube.com/watch?v=nX_z1tWy18o</p> <p>https://www.youtube.com/watch?v=Kg8li-doHADg</p> <p>Flipped Learning Choose an issue that has provoked a controversy like certain projects in Goa, where the lives of the people have been affected. 2. Find out the facts of the case. 3. Present your arguments. 4. Suggest a possible settlement.</p> <p>https://drive.google.com/file/d/1xb78usal0sNB587gA6DXs8niyiL3Cxy/view?usp=sharing</p>	
<p>Physics</p>	<p>E.M WAVES (3) • Displacement current • Electromagnetic waves • Electromagnetic</p>	<ul style="list-style-type: none"> · Understand light is an emw · Concept of displacement current · Modified ampere's circuital 	<p>Practical : To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.</p>	<p>CBSE question answers Class Class test MCQ in google forms</p>

	<p>Spectrum</p> <p>UNIT 6 RAY OPTICS(10)</p> <ul style="list-style-type: none"> · Reflection · Refraction · Dispersion · Optical Instruments <p>UNIT-6 WAVE OPTICS (5)</p> <ul style="list-style-type: none"> · Huygens Principle · Coherent and incoherent sources · Diffraction Polarization 	<p>law</p> <ul style="list-style-type: none"> · Hertz experiment · EM waves include radio waves, x- rays Gamma rays, IR rays, UV rays · Propagation of EMWaves in atmosphere <ul style="list-style-type: none"> · Understand the fundamental difference between reflection and refraction and the laws governing the two phenomenon · Relate the refractive index to the amount of refraction that a ray undergoes while traversing the medium and the fact that refractive index is wavelength related · Reason out that why light with bigger wave length bends less and travels with higher velocity than light with lower wavelength · Define dispersion and scattering of light · Understand dispersive powers different glass prisms of different materials and distinguish between 	<p>To find the focal length of a convex mirror, using a convex lens.</p> <p>ART INTEGRATION: Write a poem on dispersion of light</p> <p>Diksha Learning module(DKS)</p> <p>Learning Module 1:</p> <p>https://diksha.gov.in/play/collection/do_31310347540115456011088?contentId=do_31310650532035788813681</p> <p>Learning Module 2:</p> <p>https://diksha.gov.in/play/collection/do_31310347540115456011088?contentId=do_31310701995300454413359</p> <p>Learning Module 3:</p> <p>https://diksha.gov.in/play/collection/do_31310347540115456011088?contentId=do_31310702409814835212823</p> <p>Learning Module 4:</p> <p>https://diksha.gov.in/play/collection/do_31310347540115456011088?contentId=do_31310702673545625612937</p> <p>Learning Module 5:</p>	<p>Worksheet and assignments</p>
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		<p>deviation and dispersion.</p> <ul style="list-style-type: none"> · Define wave front and Huygens principles · Show reflection and refraction of a plane wave surface using wave fronts · Define interference of light, state the conditions required for it · Explain Young's double slit experiment and obtain expressions for fringe width, conditions for maximum and minimum amplitudes. · Relate diffraction and wave nature and hence increase the resolving power of optical instruments using electron beams · Explain Diffraction due to a single slit, · Differentiate between interference and diffraction · Understand polarization phenomenon · Define Brewster's law and Brewster's angle · Give use of plane polarized light and polaroids. 	<p>https://diksha.gov.in/play/collection/do_31310347540115456011088?contentId=do_31310772499240550413207</p> <p>Review:</p> <p>Mind Map: https://diksha.gov.in/play/collection/do_31310347540115456011088?contentId=do_31308587273293004812379</p>	
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Chemistry	<p>Aldehydes, Ketones, Carboxylic acids(12)</p> <p>IUPAC naming Methods of preparation Physical and chemical properties Nucleophilic addition reactions Condensation reactions Reduction reaction Carboxylic acids Naming ,Acidic nature And effect of Ewg</p> <p>Organic compounds containing Nitrogen (4) Amines as derivatives of ammonia having a pyramidal structure; • classification of amines as primary, secondary and tertiary;</p>	<p>Each student will be able to</p> <ul style="list-style-type: none"> ▪Follow IUPAC rules and name compounds. ▪Correlate physical and chemical properties of these classes of compounds. ▪Describe methods of preparation of these compounds (at least two) ▪Explain ring substitution . ▪Distinguish between 1.aldehyde and ketones 2. two aldehydes 3.two ketones by chemical method. ▪Outline mechanism for aldol and cross aldol reaction ▪Predict the acidic strength when EWG is present <p>Each student will be able to</p> <ul style="list-style-type: none"> ▪Write some trivial and IUPAC names of compounds containing nitrogen 	<p>Flipped learning based on videos and NCERT book</p> <p>https://www.youtube.com/watch?v=UmbmTSj73K4</p> <p>https://www.youtube.com/watch?v=UmbmTSj73K4&list=RDCMUCe5YkOlh2syJdRUDfge-IQ&index=1</p> <p>https://diksha.gov.in/play/content/do_3130029893318164481140</p> <p>Experiential activity- identification of food items in which an aldehyde group is present.</p>	
Computer Science	Stacks/ queues - 10 days	<p>Each student will be able to-</p> <ul style="list-style-type: none"> ● Distinguish between stacks and queues, LIFO and FIFO ● implement stacks and queues using linked lists 	<p>Flipped learning Activity -</p> <p>study and compare LIFO / FIFO data structure designs. List down some live examples from our surroundings which follow LIFO and FIFO</p>	<p>Worksheets & Lab Assignments</p> <p>Test on stacks</p>

	<p>Unit II: Computer Networks (9 days)</p> <ul style="list-style-type: none"> ● Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across the network with reference to switching techniques (Circuit and Packet switching). ● Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data transfer rate (bps, Kbps, Mbps, Gbps, Tbps). ● Transmission media: Twisted pair cable, coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link. 	<ul style="list-style-type: none"> ● design linked list based programs for stacks <p>Each student -</p> <ul style="list-style-type: none"> ● will come to know about various types of networks/ topologies prevalent in today's world. ● will be able to distinguish among different communications media. ● will be able to state advantages and disadvantages of various data switching techniques used in networks. ● will be able to state steps of setting up a communication network for a company. ● Will be able to choose best network layout plan amongst the various types of networks/topologies prevalent in today's world 	<p>Learning Activity</p> <ul style="list-style-type: none"> ● Write algorithms for linked list based programs for stacks <p>Experiential Learning Activity</p> <ul style="list-style-type: none"> ● Make stack based programs on computer using Python IDLE software ● Test programs with dummy data and Compile the outputs <p>Resources:</p> <ul style="list-style-type: none"> ● demonstration of programming codes using Python on idle / colab ● Computer & projector ● PPT ● Youtube videos ● Google Classroom <p>Art Integration Brochure Designing-Networking Devices Collage of Database connectivity codes</p>	<p>MCQs/Quiz</p> <p>Online Quiz using Google form -Networking</p>
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	<ul style="list-style-type: none"> ● Network devices: Modem, RJ45 connector, Ethernet Card, Router, Switch, Gateway, WiFi card. ● Network Topologies and types: Bus, Star, Tree, PAN, LAN, WAN, MAN. 			
<p>Economics</p>	<p>Determination of Income and employment</p> <p>Determination of Income and employment.</p> <p>Component of Aggregate Demand Consumption</p> <p>Savings Functions Determination of Equilibrium. Multiplier</p> <p>Excess Demand Deficient demand</p> <p>Monetary Policy</p> <p>Rural Development Identify the need for rural development and the major issues associated with it appreciate how crucial the</p>	<p>Each student will be able to:</p> <p>Identify the concept of Aggregate demand and state its components.</p> <p>Derive the consumption and savings from Income $Y=C+S$</p> <p>Determine the short run fixed price in product market equilibrium, output,</p> <p>Multiplier and its working Deficient demand and Excess demand Measures to combat the changes in equilibrium and output To analyze the current economic scenario in India.</p> <p>To make students understand the initiatives of government in addressing it's Challenge</p> <p>To familiarize student concepts of current Challenges facing</p>	<p>Discussion on how The sub-prime crisis in the United States of America led to Economic repercussions in the everyday lives of not only Americans but also in India.</p>  <p>Concept mapping for Derivation of Consumption Function.</p> <p>Wall magazine</p> <p>Debate on Whether Keynesian Economics is applicable in today's world</p>	<p>Class tests</p> <p>Worksheets</p> <p>Google Forms</p> <p>Jam boards</p> <p>Quiz Alize</p> <p>ROLE PLAY</p>

	<p>development of rural areas is for India's overall development</p> <ul style="list-style-type: none"> • understand the critical role of credit and marketing systems in rural development • learn about the importance of diversification of productive activities to sustain livelihoods 	<p>the Indian economy, especially rural development.</p> <p>To assess the students understanding of the Farm laws</p>	<p>ACTIVITY BASED LEARNING Hands-on experiments and activities</p> <p>Some activities related to current Challenges facing the Indian economy like picture graph, table, diagram, comprehension, different case studies related to primitive and modern given to the students for lesson understanding.</p> 	
<p>Psychology</p>	<p>Chapter - 5 Therapeutic Approaches (17 classes)</p> <ul style="list-style-type: none"> • Nature and Process of psychotherapy Therapeutic relationship • Types of Therapies <ul style="list-style-type: none"> - Behaviour Therapy - Cognitive Therapy - Humanistic-Existential - Therapy 	<p>Each student will be able to:</p> <ul style="list-style-type: none"> • Mention the key factors of a therapeutic relationship • Name the methods used in Psychodynamic therapy for healing 	<ul style="list-style-type: none"> • Imagine yourself to be a Psychoanalyst and write the dialogues exchanged between you and your client for one session which turned out to be quite useful • Experiential learning of the behavioral techniques used in therapy • Drill of keywords 	<ul style="list-style-type: none"> • Quiz - Kahoot / Google form • Group Discussions • Progressive worksheet after completion of each topic

Art Integration

	<p>- Alternative Therapies - Factors contributing to healing in psychotherapy - Ethics in psychotherapy</p> <ul style="list-style-type: none"> ● Rehabilitation of the Mentally Ill <p>Practicals (8 classes)</p> <ul style="list-style-type: none"> ● Self-Concept Questionnaire (SCQ) ● Sinha's Comprehensive Anxiety Test (SCAT) 	<ul style="list-style-type: none"> ● Diff. btw antecedent factors and maintaining factors ● State any three behavioral techniques ● Define the ABC component ● Explain the term cognitive distortions ● Define the term existential anxiety ● State any four ethics of Psychotherapy 	<ul style="list-style-type: none"> ● Book reading – ‘Dibs in search of self’ <p>Art Integration</p> <ul style="list-style-type: none"> ● Discussing Mental Health is a taboo in India. Most of the disorders are either denied or considered to be a result of magical powers. Interview people around you from different socioeconomic backgrounds. Ask them about their viewpoint on mental disorders, about the importance of temples like mehandipur balaji where exorcism is performed. Integrate all the video interviews and prepare a film. 	<ul style="list-style-type: none"> ● Assignment ● 5 mins oral questions to test previous knowledge
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Biology	<p>1.Human Health -7 classes Common human diseases, Immunity, AIDS, Cancer, Drugs & alcohol abuse</p>	<p>Explains the nature of the immune systems. Classify the types of immune systems. Correlates symptoms with the type of the disease. List the causes of cancer & its symptoms& treatment. Draw the life cycle of HIV as it infects humans. Explains the functioning of immune system. Enlist the type of drugs their sources & their effect on humans</p>	<p>Flipped learning of the concepts assigned will be followed by-</p> <p>https://www.ted.com/talks/emma_bryce_how_does_the_immune_system_work?language=en</p> <p>on how immune system works. Concept map on immunity & Fill the empty out lines based on handout out given on common human diseases</p> <p>https://www.youtube.com/watch?v=bfQVbfX0y3I PLASMODIUM</p> <p>https://www.youtube.com/watch?v=PISyywlLuNw HIV</p> <p>Cooperative learning on drugs - stdents will preapre question answers on Drugs</p> <p>Experiential activity- Identifythe symptoms & the disease caused by the pathogens–Ascaris, Entamoeba histolytica, Ringworm and Plasmodium</p> <p>Transdisciplinary activity-What strategies should government adapt to improve the organ donation in the country?</p>	<p>Worksheets, Google docs Class based assessment.</p>
	<p>2. Microbes in Human welfare-5 classes Microbes in household products,</p>	<p>Identify the role of various microbes in processing of various house hold products, in pollution control, in fuel generation. List the name of various organisms involved in the process &</p>	<p>https://www.youtube.com/watch?v=tpZMgSXqrtc for household</p>	<p>Worksheets, Google docs Class based</p>

	<p>microbes in industrial products, microbes in sewage treatment, microbes in biogas production Microbes as biopesticides & biofertilizers</p>	<p>Classify organisms into various types</p>	<p>https://www.youtube.com/watch?v=n1H6iQH26no- industrial application</p> <p>The sewage treatment process -water treatment plant</p> <p>https://www.youtube.com/watch?v=PmBx5Zo8KZo ---biogas plant animation</p> <p>https://www.dailymotion.com/video/x6p5a9c-microbes as biofertilizers</p> <p>Flipped learning based on the links shared & the concepts from NCERT will be followed by Filling th empty lines in the activity sheet Brain storming using quizzes.</p> <p>AIL - Create humours cartoon strip on the microbes involved in human welfare.</p> <p>Experiential learning- Identify any five food items that you consume involved the microbes in their processing.</p>	<p>assessment.</p>
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SEPTEMBER


Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	<ul style="list-style-type: none"> • Probability <ul style="list-style-type: none"> ❖ Partition of a sample space ❖ Theorem of total probability 	<p>Each student will be able to</p> <ul style="list-style-type: none"> ★ describe partition of a sample space 	<p>LA: Read solved examples</p> <p>Math Lab Activity: To explain the computation of</p>	<p>Class work</p> <p>Home work</p> <p>Google Forms</p>

	<ul style="list-style-type: none"> ❖ Baye's Theorem ❖ Random Variables and Probability distribution <ul style="list-style-type: none"> ● Revision for Term-1 Exam 	<ul style="list-style-type: none"> ★ state theorem of total probability and apply to questions. ★ make sense out of the concept of reverse probability ★ apply the Bayes' theorem ★ define a random variable ★ apply the concept of random variable 	<p>conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.</p> <p>Experiential Activity: Take 2 bags, bag 1 containing 4 one rupee coins and 2 two rupee coins and the other containing 2 one rupee coins and 4 two rupee coins The probabilities of selecting either bag is equally likely. Select any bag and draw a coin from it.</p> <p>Try to answer the following question</p> <p>a) Given that the coin selected is one rupee coin, what is the probability it was selected from the first bag?</p> <p>b) Given that the coin selected is one rupee coin, what is the probability it was selected from the second bag?</p>	<p>Oral questioning</p> <p>Quiz</p>
English	Revision of topics for Term 1 Examination	Practice of Reading Comprehension Writing Skills Literature		
Physics	UNIT 7 Dual nature of mater and radiation(5) <ul style="list-style-type: none"> · Photoelectric effect 	<ul style="list-style-type: none"> · Explain work function and photo electric effect. · Show the variation of photocurrent with the intensity 	<p>Practical :</p> <p>To determine angle of minimum deviation for a given prism by plotting a graph</p>	<p>CBSE question answersClass Class test MCQ in google forms</p>

	<ul style="list-style-type: none"> • Dual nature • De Broglie relation <p>Atomic nucleus (5)</p> <ul style="list-style-type: none"> • Atomic Spectra • De-Broglie hypothesis • Radioactivity • Nuclear Energy 	<p>of light.</p> <ul style="list-style-type: none"> • Graphically show the variation of photocurrent with the frequency. • Explain thermionic, field and photoelectric emission. • Explain retarding potential. • Plot the graph showing the variation of the retarding potential with the increase in frequency. • Solve numerical based on photoelectric effect. <p>Explain the characteristic features of Davisson and Germer Experiment</p>	<p>between angle of incidence and angle of deviation.</p> <p>To find refractive index of a liquid by using convex lens and plane mirror.</p> <p>ART INTEGRATION: Create a</p> <p>Miniature Painting on atomic spectra</p>	Worksheet and assignments
Chemistry	<p>Organic compounds containing Nitrogen (5)</p> <p>IUPAC system</p> <p>methods of preparation of amines;</p> <p>properties of amines;</p> <p>distinguish between primary, secondary and tertiary amines</p> <p>method of preparation of diazonium salts and their importance in the synthesis of azo compounds</p> <p>Revision for Mid term examination</p>	<p>Each student will be able to</p> <ul style="list-style-type: none"> ▪ Write some trivial and IUPAC names of compounds containing nitrogen ▪ Correlate physical and chemical properties of amines ▪ Describe methods of preparation of these compounds (at least two) ▪ Explain ring substitution of aniline ▪ Appreciate use of diazonium salts in organic synthesis) 	<p>Flipped learning based on Concept from NCERT and video links</p> <p>https://www.youtube.com/watch?v=ztnP_nackibs</p> <p>Short test</p> <p>https://diksha.gov.in/play/content/do_3130908574428282881282</p> <p>Concept map - properties of amines</p> <p>Transdisciplinary activity- research on azo dyes used to colour the cloth</p>	<p>MCQ test</p> <p>https://docs.google.com/forms/d/1atpnBHOCKBCpcAGGn-CBLJ0I-ZR5C1Cx9vmLiXVHE3Y/edit</p> <p>Assignment Worksheet</p>

<p>Computer Science</p>	<p>Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, HTTP, SMTP, POP3, Remote Login (Telnet) and Internet, Wireless / Mobile Communication protocol such as GSM, GPRS and WLL. - 3 days</p> <p>Revision for Mid term examination</p>	<p>Students will come to know about-</p> <ul style="list-style-type: none"> • various security measures used on computer network. • will come to know about different Network Models • will be able to differentiate among different Network Models. 	<p>Resources:</p> <p>Online demonstration on Computer & projector</p> <p>Google Slides</p> <p>Videos</p> <p>Technology</p> <p>Online:</p> <p>Jamboard</p> <p>Youtube videos</p> <p>Google Form/Quiz/Kahoot</p> <p>Google Classroom</p> <p>Google Meet</p>	<p>Worksheets</p> <p>Question Bank</p> <p>Online Quiz using Google form -Networking</p> <p>Test-Networking case study</p>
<p>Economics</p>	<p>Employment</p> <p>How growth gets affected because of high levels of unemployment.</p> <p>Different kinds of unemployment. Rural and Urban Causes</p>	<p>Know a few basic concepts relating to employment such as economic activity, worker, workforce and unemployment.</p> <p>Appreciate the nature of participation of men and women in various economic activities.</p>	<p>Hands on activity to teach different kinds of unemployment.</p> <p>Crossword on unemployment</p> <p>Classroom activity (game) to unemployment rate and other labor force metrics</p>	<p>Class Test</p> <p>MCQs</p> <p>Worksheet</p> <p>Assignment</p> <p>Quiz</p>

	<p>Strategies economic activities.</p>	<p>Acknowledge the nature and extent of unemployment.</p> <p>Students will understand the various types of unemployment: frictional, structural, and cyclical.</p> <p>Assess the initiatives taken by the government.</p> <p>They will apply labour force concepts to calculate the civilian labour force, the labour force participation rate, the official unemployment rate, and an alternate unemployment rate.</p> <p>They will learn about the effects of discouraged workers, the incarcerated, and the underemployed on the unemployment rate.</p> <p>Figure out comparative trends in various economic and human development indicators of India and its neighbours, China and Pakistan.</p> <p>Assess the strategies that these countries have adopted to reach their present state of development.</p>	<p>Have students work in small groups or partnerships for this activity. Give each group a copy of a chart or table showing unemployment statistics from the region or time period you are studying most closely. Students can also look at contemporary statistics. Group Discussion to follow.</p> <p>Jigsaw Puzzle</p> <p>Video to elicit response from students.</p> <p>Classroom discussions</p>	<p>Class Test</p> <p>MCQs</p> <p>Worksheet</p>
	<p>Sustainable development</p> <p>Meaning, Effects of Economic Development on Resources and Environment,</p>			

	<p>Global warming</p> <p>REVISION FOR MID_TERM</p>		<p>Go Goals digital game.</p> <p>Quiz</p> <p>ART INTEGRATION</p> 	<p>Assignment</p> <p>Quiz</p>
<p>Psychology</p>	<p>Chapter 6 – Attitude and Social Cognition (16 classes)</p> <ul style="list-style-type: none"> ● Explaining Social Behaviour ● Nature and Components of Attitudes ● Attitude Formation and Change <ul style="list-style-type: none"> - Attitude Formation - Attitude Change -Attitude-Behaviour Relationship ● Prejudice and Discrimination ● Strategies for Handling Prejudice 	<p>Each student will be able to:</p> <ul style="list-style-type: none"> ● understand what are attitudes, how they are formed and changed, ● analyse how people interpret and explain the behaviour of others, ● comprehend how the presence of others influences our behaviour, ● explain why people help or do not help others in distress, and ● Analyse how people interpret the behavior of others ● Give any two factors that affects attitude change ● State examples of prejudices from our society 	<ul style="list-style-type: none"> ● Activity: Carvings in Khajuraho represent breaking stereotypes in indian society. Look for other areas where stereotypes are broken. It may be through a folk tale, novel, art work, theatre etc. Represent these changes in attitudes through an Indian art form. Some of them are listed below: <ul style="list-style-type: none"> -Indian dance form -Indian Music -Puppet show etc ● Group discussion on how stereotypes, as forms of prototypes, may lead to prejudice. 	<ul style="list-style-type: none"> ● Class Tests ● Worksheets ● Quiz ● Group Discussions

	Revision for the term-1 examination	<ul style="list-style-type: none"> • Differentiate between prejudice, stereotype and discrimination • CBSE Sample Paper practice • Doubts classes • Discussion of important topics 	<ul style="list-style-type: none"> • Practice tests • Short discussions • Key points • Concept mapping 	<ul style="list-style-type: none"> • Worksheets • Sample Q/As
Biology	1.Biotechnology - Principles & Tools -8 classes Principles of Biotechnology Tools of recombinant DNA Processes of Recombinant DNA Technology	Each student will be able to List the basic principle and role of various tools of the technology.Differentiate between; a) DNA and Recombinant DNA b) between sparged and stirred tank bioreactor c) exonucleases and endonucleases Explain the use of selectable marker for selection of recombinant cells. Explain the significance of PCR in recombinant genetic engineering.	Flipped learning will be based on the subtopics assigned from the NCERT & the links shared. http://youtube.com/watch?v=TQRL9JnYkA4 Biotechnology Principles https://www.youtube.com/watch?v=xF7F3kAJmuQ&t=636s application in the field of medicine https://www.youtube.com/watch?v=6-Yl7nG0CVc bioethics After follow up activities students will answer the following questions; Write difference between; a.traditional and modern biotechnology gene cloning and origin of replication List the, tools of recombinant DNA technology Explain the role of enzymes, vectors and selection methods in recombinant	Worksheet, Google forms & google docs as assessment tools.

			DNA Technology. Explain down streaming process and its significance	
OCTOBER				
Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	<ul style="list-style-type: none"> • Vectors <ul style="list-style-type: none"> ❖ Position Vector ❖ Types of vectors ❖ Direction cosines ❖ Algebra of vectors ❖ Scalar and vector product 	<p>Each student will be able to</p> <ul style="list-style-type: none"> ★ differentiate scalars and vectors by giving examples ★ describe a vector with initial and terminal points with a direction and magnitude as the distance between the endpoints ★ describe a vector in space in terms of its direction cosines ★ establish a relationship among the direction cosines ★ recognise that direction ratios are proportional to direction cosines ★ list the types of vectors and define them like zero vector, unit vector, coinitial vectors, collinear vectors, equal vectors, negative of a vector ★ add two vectors using triangle law of vector addition ★ list the properties of vector addition ★ multiply a vector by a scalar ★ represent a vector as in its component form 	<p>LA:</p> <ul style="list-style-type: none"> • To watch related video at home. • To read solved examples from book. <p>Math Lab Activity:</p> <ul style="list-style-type: none"> • To verify geometrically that $\vec{c} \times (\vec{a} + \vec{b}) = (\vec{c} \times \vec{a}) + (\vec{c} \times \vec{b})$ • To verify that angle in a semi-circle is a right angle, using vector method. 	<p>Through small tests in fundamentals</p> <p>Class work</p> <p>Home work</p> <p>Google Forms</p> <p>Oral questioning</p> <p>Quiz MCQ(Vectors) https://diksha.gov.in/play/content/do_31309369950181785611602</p>

	<ul style="list-style-type: none"> ● Three dimensional geometry <ul style="list-style-type: none"> ❖ Direction ratio and cosines of a line ❖ Equation of line in space ❖ Angle between two lines ❖ Shortest distance between two lines 	<ul style="list-style-type: none"> ★ state the relation between the scalar components of collinear vectors ★ apply the section formula to questions ★ define scalar product of two vectors ★ list the properties of scalar product ★ describe the projection of vector on a line ★ define vector or cross product of two vectors ★ list the properties of cross product ★ find the area of a parallelogram using cross product <p>Each student will be able to</p> <ul style="list-style-type: none"> ★ define the direction cosines of a line ★ find the direction cosines of a line joining two points. ★ state the relation between direction cosines and numbers ★ define skew lines. ★ find the angle between skew lines. ★ state the relation between the direction cosines(ratios) of two lines and the angle between them. ★ find the equation of a line that passes through a given point and parallel to a given vector in vector and cartesian form 		<p>MCQ(3-D geometry) https://in.ixl.com/math/class-xii/find-the-component-form-of-a-three-dimensional-vector or</p>
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	<ul style="list-style-type: none"> ● Relations and Functions <ul style="list-style-type: none"> ❖ Types of relation ❖ Types of functions 	<ul style="list-style-type: none"> ★ find the equation of a line passing through two given points ★ find the shortest distance two lines ★ state the formula for finding distance between skew lines and parallel lines. <p>Each student will be able to</p> <ul style="list-style-type: none"> ★ state the types of relations ; reflexive , symmetry , transitive and equivalence and define them ★ solve questions based on the types of relations ★ state the types of functions : one-one(injective) , onto(surjective) ★ solve questions based on the types of functions. 		
English	Prose- On the face of it	<p>Students will be able to correctly answer the question of being optimistic even in the face of adverse circumstances in life.</p> <p>Each student will be able to Enrich their vocabulary Narrate the gist of the story Inculcate values of positivity and compassion</p>	<p>Collaborative learning/Role Play: Two students will pair up and each will take up the role of Jerry or Mr Lamb Analyse. Why do the two characters in lesson face humiliation? Why human beings cannot live by the motto 'live and let live'</p>	<p>Worksheets</p> <p>Oral Quizzes</p> <p>Comprehension Check</p> <p>CBSE Q/Ans</p>

	<p>Prose- Poets and Pancakes</p>	<p>Every student will be able to analyze the working conditions and people involved in the studios. understand that there was a great deal of national integration.</p> <p>Interpret the use of talent and creativity at its best. Comment on good poetry and music being the deciding factor in the popularity of the film</p>	<p>https://diksha.gov.in/play/collection/do_31310347537468620811440?contentId=do_313001757442973696138</p> <p>Flipped learning The students will be shown pictures of Gemini Studio and video clippings. https://web.archive.org/web/20130810170333/http://geminiindia.in/history</p> <p>‘Humour creates interest and attraction brings out the hidden talent of the character through the writer’s creation’–Discuss</p>	<p>Assignments</p>
	<p>Prose-Memories of Childhood</p>	<p>Each student will be able to Provides correct answers to questions based on the lesson Identifies the complexity of ideas in the text Expresses the problems related to caste and racial discrimination Understand and appreciate autobiography as a genre of literature</p>	<p>https://docs.google.com/document/d/1cmMHI92DZ7UhrWJG48c9uVlgw4yDWtD/edit</p> <p>Flipped learning https://drive.google.com/file/d/1KFOvgAm8YercpNy0zdhJUWsVHZKuTBo/view?usp=sharing</p>	
	<p>Writing Skill- Job Application</p>	<p>Familiarize students with the universal concept of discrimination on the basis of caste/nationality/religion/gender Understand the biographical accounts of women from the marginalized societies</p>	<p>Group Discussion/Role play History abounds with examples of people who were discriminated on the basis of their nationalities/ religion/ethnicity/ colour of the skin/ and gender</p>	

		.Each student will be taught the correct format and purpose of drafting job applications	Samples https://diksha.gov.in/play/collection/do_31318424317821747212516?contentId=do_313285449188188160111983	
Physics	UNIT 9 SEMI-CONDUCTOR DEVICES(6) <ul style="list-style-type: none"> • P-n junction • Semiconductor diode 	<ul style="list-style-type: none"> • Explain the band theory concept to differentiate between metals, insulators and semiconductors • Relate atomic level bonding and intrinsic and extrinsic semi conductors • Comprehend the functioning of p-n junction, depletion layer. • Correlate semi conductor diodes in forward bias and reverse bias • Understand and reproduce working of diode as rectifier, 	<p>Practical :</p> <p>To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.</p> <p>To draw the characteristic curve of a zener diode and to determine its reverse breaks down voltage.</p> <p>ART INTEGRATION: Create a Miniature Painting on energy band diagram of p and n type semiconductors</p>	<p>CBSE question answersClass Class test MCQ in google forms</p> <p>Worksheet and assignments</p>
Chemistry	d-f block elements(6) general characteristic of transition elements general trends in properties Colour and magnetic character of ions	Each student will be able to: <ul style="list-style-type: none"> ▪Recall electronic configuration of transition elements and justify their position in periodic table ▪Characterise and explain general trends in properties ▪Predict stability of oxidation states on transition elements. ▪Define lanthanoid and actinoid 	Flipped learning- based on shared links and concepts from NCERT https://www.youtube.com/watch?v=LzZWHSdYaxw https://diksha.gov.in/play/content/do_31328076765145497615483 https://diksha.gov.in/play/content/do_31328076765145497615483	Quick memory test https://diksha.gov.in/play/content/do_3131142356240384001273 Open book test MCQ Google form

	<p>lanthanoid and actinoid contraction reduction potentials and oxidation states</p> <p>Co-ordination Chemistry (7) Werner theory Nomenclature rules Isomerism Magnetic property Hybridization Geometrical shapes Crystal field theory Drawing and Interpretation of octahedral and tetrahedral complexes and their applications</p>	<p>contraction and Mention at least two consequences /applications of this contraction. ▪Compare the gen.config. and oxidation states of lanthanoids and actinoids</p> <p>Each student will be able to: ▪Define the terms involved in coordination comp. ▪Follow the rules of IUPAC nomenclature. ▪Predict the type of isomerism in coordinate compounds. ▪Draw the possible isomers of a compound given. ▪Outline the postulates of VBT and CFT. ▪Understand the nature and geometrical shapes of complexes by VBT,CFT.</p> <p>▪List important coordination compounds and their applications in various fields</p>	<p>328076780698828815486</p> <p>Flipped learning- based on shared links and concepts from NCERT</p> <p>https://www.youtube.com/watch?v=s0dJHwBVFcl</p> <p>https://www.youtube.com/watch?v=9ohaQGlzOJQ</p> <p>Art integration- Colour wheel showing change in colour with ligand concentration</p> <p>Experiential activity- preparation of coordination compound of Co³⁺ and ammonia</p> <p>Transdisciplinary activity- coordination compounds and daily life activities</p>	
<p>Computer Science</p>	<p>Unit II: Computer Networks (15)</p> <p>● Mobile Telecommunication Technologies: Electronic mail protocols such as SMTP, POP3, Protocols for Chat and Video Conferencing: VoIP,</p>	<p>Each student will be able to -</p> <ul style="list-style-type: none"> ● differentiate among different telecom technologies ● differentiate among different generations of mobile telecom ● define various terms related to Web services 	<p>Resources: Online demonstration on Computer & projector Google Slides Videos</p> <p>Technology online:</p> <ul style="list-style-type: none"> ● Jamboard ● Youtube videos ● Google Form/Quiz/Kahoot 	<p>Worksheet, Question bank, revision test</p>

	<p>Wireless technologies such as Wi-Fi and WiMax</p> <ul style="list-style-type: none"> ● Introduction To Web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Website, Web browser, Web Servers; Web Hosting 	<ul style="list-style-type: none"> ● differentiate between XML and HTML 	<ul style="list-style-type: none"> ● Google Classroom 	
Economics	<p>Employment</p> <p>How growth gets affected because of high levels of unemployment.</p> <p>Different kinds of unemployment. Rural and Urban Causes</p> <p>Strategies economic activities.</p>	<p>Know a few basic concepts relating to employment such as economic activity, worker, workforce and unemployment.</p> <p>Appreciate the nature of participation of men and women in various economic activities.</p> <p>Acknowledge the nature and extent of unemployment.</p> <p>Students will understand the various types of unemployment: frictional, structural, and cyclical.</p> <p>Assess the initiatives taken by the government.</p>	<p>Hands on activity to teach different kinds of unemployment.</p> <p>Crossword on unemployment</p> <p>Classroom activity (game) to unemployment rate and other labor force metrics</p> <p>Have students work in small groups or partnerships for this activity. Give each group a copy of a chart or table showing unemployment statistics from the region or time period you are studying most closely. Students can also look at contemporary statistics. Group Discussion to follow.</p>	<p>Class Test</p> <p>MCQs</p> <p>Worksheet</p> <p>Assignment</p> <p>Quiz</p>

	<p>Sustainable development</p> <p>Meaning, Effects of Economic Development on Resources and Environment,</p> <p>Global warming</p> <p>REVISION FOR MID_TERM</p>	<p>They will apply labor force concepts to calculate the civilian labor force, the labor force participation rate, the official unemployment rate, and an alternate unemployment rate.</p> <p>They will learn about the effects of discouraged workers, the incarcerated, and the underemployed on the unemployment rate.</p> <p>Figure out comparative trends in various economic and human development indicators of India and its neighbours, China and Pakistan.</p> <p>Assess the strategies that these countries have adopted to reach their present state of development.</p>	<p>Jigsaw Puzzle</p> <p>Video to elicit response from students.</p> <p>Classroom discussions</p> <p>Go Goals digital game.</p> <p>Quiz</p> <p>ART INTEGRATION</p> 	<p>Class Test</p> <p>MCQs</p> <p>Worksheet</p> <p>Assignment</p> <p>Quiz</p>
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<p>Psychology</p>	<p>Chapter 7 - Social Influence and Group Processes (14 classes)</p> <ul style="list-style-type: none"> ● Nature and Formation of Groups ● Type of Groups ● Influence of Group on Individual Behaviour ● Social Loafing ● Group Polarisation <p>Practicals (8 classes)</p> <ul style="list-style-type: none"> ● Adjustment Inventory for School Students (AISS) ● Sodhi's Attitude Scale (SAS) 	<p>Each student will be able to:</p> <ul style="list-style-type: none"> ● understand the nature and types of groups and know how they are formed, ● examine the influence of group on individual behaviour ● Define social loafing and group polarisation 	<ul style="list-style-type: none"> ● Activity: Tug of War ● Group Discussion: Extreme cohesiveness within a group becomes harmful for functioning. ● MUN is round the corner. Plan and explain Tuckman's stages to group formation. ● Once you join college it is likely that you will start following the group norms in the new environment , why does this happen? What are the factors that will determine this phenomenon? 	<ul style="list-style-type: none"> ● Assignment ● Group Discussions ● Kahoot Quiz ● Class Test
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<p>Biology</p>	<p>1. Biotechnology- Applications- 8 classes</p> <p>In agriculture, medicine, transgenic & ethical issues related to biotechnology</p> <p>2.Organisms & populations- 4 Classes</p>	<p>Describe the applications of biotechnology in the field of agriculture, animal husbandry & medicine. Enlist the benefits of technology to humans. Explain the ethical issues related to it</p> <p>Discuss the pattern of population growth Population interactions</p> <p>Explain the role of various</p>	<p>Rearrange the steps involved in application of biotechnology in different fields.</p> <p>RNA silencing is natural defense mechanism in some organism. Using different resources identify the organism & the process.</p> <p>Transdisciplinary - Biotechnology is a potential tool for uplifting Indian economy.</p> <p>https://www.youtube.com/watch?v=YyT-fATbJU ---ecological interactions</p> <p>Flipped class will be having follow up as- Brain storming on the subtopics Discussion on muddiest points on the sub topics. Picture prompt on the graphs displayed in the class on population growth curves. Completing the graphic organizers on ecological interactions. Cross word on organisms & populations</p> <p>Experiential learning- Observe symbiotic association of root nodules with leguminous plants, cuscuta with zizyphus, Lichens.</p> <p>Picture prompt - Comment on the ecological pyramids</p>	<p>Google forms, Google docs Quizzes Worksheet</p>
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	3. Ecosystem-4 classes Structure & function of ecosystem, Productivity, Decomposition, energy flow, ecological pyramids,	components of ecosystem. Interpret changes in the ecological pyramid on the basis on number of organism, energy levels.	given in the activity sheet. Word wall game on the vocabulary words on Ecosystem.	Worksheet , Quizes Google doc
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NOVEMBER

Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	Revision		Practice Papers	
English		CBSE Sample Paper <ul style="list-style-type: none"> ● Assignments ● Practice questions to be attempted 		
Physics	Revision	Practice papers Assignments CBSE sample paper	Practice Papers	Practice Papers
Chemistry	Revision	Practice papers Assignments CBSE sample paper		
Computer Science	Revision	Practice papers Assignments CBSE sample paper		

Economics	Revision	Practice papers Assignments CBSE sample paper		
Psychology	<ul style="list-style-type: none"> ● Practical File Completion ● Revision 	<ul style="list-style-type: none"> ● CBSE Sample Papers ● Practice Questions 	<ul style="list-style-type: none"> ● Practice tests ● Discussion of important questions and concepts 	<ul style="list-style-type: none"> ● Worksheets ● Sample Q /A
Biology	1. Biodiversity-4 classes	<p>Explain the word biodiversity & its levels Identify the importance of biodiversity. Specify the causes for loss of biodiversity. Discuss the strategies to protect it.</p> <p>Revision</p>	<p>Discusstion based on the Ted talk on climate change.</p> <p>https://www.slideshare.net/nayak.tushar.kanti5/ppt-of-biodiversity-</p> <p>Complete the information on the given pie charts</p> <p>Make a flow chart on the strategies to conserve biodiversity.</p>	Worksheet , Quizes Google docs

DECEMBER

Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	Revision			
English	Revision of all topics			
Physics	Revision			
Chemistry	Revision	Practice papers Assignments CBSE sample paper		
Computer Science	Revision of all topics using Practice papers , Assignments and CBSE sample paper			

Economics				
Psychology	<ul style="list-style-type: none"> • Revision of entire syllabus 	<ul style="list-style-type: none"> • CBSE Sample Papers • Practice Questions 	<ul style="list-style-type: none"> • Practice tests • Discussion of important questions and concepts 	<ul style="list-style-type: none"> • Worksheets • Sample Q /A
Biology		Revision CBSE sample papers		
JANUARY and FEBRUARY				
Subject	Topics Covered / No. of Periods	Learning outcomes	Activities	Assessments
Mathematics	Revision		Preboard Exam	
English	CBSE Sample Paper , Assignments and Practice questions to be attempted			
Physics	Revision			
Chemistry				
Computer Science	CBSE sample papers and previous year board papers for the revision.			
Economics	Revision			
Psychology	<ul style="list-style-type: none"> • Revision 	<ul style="list-style-type: none"> • CBSE Sample Papers • Practice Questions 	<ul style="list-style-type: none"> • Practice tests • Discussion of important questions and concepts 	<ul style="list-style-type: none"> • Worksheets • Sample Q /A
Biology	CBSE sample papers for the revision.			