

Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE
(Monthly Plan - March 2023)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH			INTRODUCTIO N AND OUTLINE OF SYLLABUS LIT. C.C. LOST SPRING	LIT. C.C. LOST SPRING - cntd WRITING -INVITATI ON	WRITING-INVI TATION- CNTD NOTICE WRITING LIT C.C. : MY MOTHER AT SIXTY -SIX (POEM)	to identify the problem, consider the options, weigh the pros and cons of each option, and reach a decision/opinion/solution.
MATHEMATICS			Concepts of relations , domain and range. One to one ,onto and invertible functions	Trigonometric functions. Principal value branch, formula /identities related inverse trigonometry.	The concepts in proving/solving related problems.	Understand the conditions for an equivalence relation Identify bijective functions. state the domain and range of inverse trigonometric functions state the principal value branch of inverse trigonometric functions and neighbouring branches.
APPLIED MATHEMATICS			Algebra: Matrices	Matrices, operations on matrices	Determinants: Properties and application	The entries, rows and columns of matrices Present a set of data in a matrix form

						<p>Perform operations like addition & subtraction on matrices of same order</p> <p>Perform multiplication of two matrices of appropriate order</p> <p>Perform multiplication of a scalar with matrix</p> <p>Define the inverse of a square matrix</p> <p>Solve the system of simultaneous equations using</p> <p>i) Cramer's Rule</p> <p>ii) Inverse of coefficient matrix and word problems</p>
PHYSICS			<p>CHAPTER1</p> <p>Electric Charges and fields; Conservation of charge.</p>	<p>Coulomb's law-force between two-point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field</p>	<p>Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside). Exercise and worksheet.</p>	<p>students would be able to know, concept of the charge, electric field, coulomb's law, gauss's law and its applications. at the end the would have command in solving problems and numericals.</p>

				<p>due to a point charge. Electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field</p>		
CHEMISTRY			<p>Unit X: Haloalkanes and Haloarenes. Haloalkanes: Nomenclature, nature of C–X bond, Physical and chemical properties.</p>	<p>Optical rotation mechanism of substitution reactions.</p>	<p>Substitution reactions of haloarenes. Uses and environmental effects of - dichloromethane, Trichloromethane, tetrachloromethane, iodoform, freons, DDT.</p>	<p>Students are able to:</p> <ul style="list-style-type: none"> recall the IUPAC naming of haloalkanes and haloarenes analyse the nucleophilic substitution reaction in terms of the stereochemistry of the product(s) predict the products for halogenation, nitration, sulfonation and Friedel Crafts reaction of mono substituted haloarenes.

						identify the uses and environmental effects of some important haloalkanes and haloarenes.
BIOLOGY			Sexual reproduction in flowering plants Pre Fertilisation events	Sexual reproduction in flowering plants Double Fertilisation	Post fertilisations: - -Structure and events -Human Reproduction (Male and female reproductive system, Gametogenesis)	To acquire knowledge of Pre fertilisation, fertilisation and post fertilisation events. -To make the learner's understand the process of double fertilisation. -To make the learner understand and appreciate the changes in their life and learn and understand hormonal changes during the menstrual cycle. Skill - Draw labelled diagrams
INFORMATICS PRACTICES			Introduction to Pandas, features, Series and Data Frames. Series: Creation of Series from – ndarray, list, dictionary, scalar value	Attributes of series, Mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Comparison of series		Installation of pandas Concept of Series and Dataframe Creation of series students will learn- Different concepts of applying build in functions 1. Selection 2. slicing 3. Indexing

COMPUTER SCIENCE			Revision of Python topics covered in Class XI, Flow of execution String, List , Tuple , Dictionaries and its functions	Functions: types of function (built-in functions, functions defined in module, user defined functions)		Students will understand the application programs using the python 1. Simple sequence 2. Selection Statements 3. Iterative Statements 4. Sequences : Mutable and Immutable Sequences
ACCOUNTANCY			Fundamentals of Partnership Accounting: Introduction	Partnership: features, partnership deed. Interest on Capital, Interest on Drawings, Remuneration for partners.	Charges & Appropriation of profit. *Fixed v/s fluctuating capital account-Capital A/c & Current A/c.*Profit/Loss Appropriation A/c	Understand and apply the concepts related to Introduction to Partnership Calculation of IOC,IOD,remuneration of partners. Preparation of P/L A/c, Appropriation A/c
BUSINESS STUDIES			Nature and Significance of Management - Introduction	Management - concept, objectives, and importance Management as Science, Art and Profession	Levels of Management. Management functions-planning, organising, staffing, directing and controlling	Understand the concept of management. Explain the meaning of 'Effectiveness and Efficiency. Discuss the objectives of management. Describe the importance of management. Examine the nature of management as a science, art and profession

						Understand the role of top, middle and lower levels of management. Explain the functions of management
ECONOMICS			Money and Banking: Introduction Function and Supply of Money	Functions of Central Bank , Commercial Banks,	Indian economy on the eve of Independence: Features: Agriculture, Industry, Foreign rule	Understands the Credit creation by Com banks, Functions Learn about the conditions of the Indian economy.
ENTREPRENEURSHIP			Entrepreneurial Opportunities: Sensing Entrepreneurial Opportunities	Sensing Entrepreneurial Opportunities. Environment Scanning. Problem Identification	Idea Field Spotting Trends	Understand the concept and elements of business opportunity. Understand the process involved in sensing opportunities. Give the meaning of environment scanning To understand the need to see the environment Enlist the various forces affecting business environment Enlist the various forces affecting the business environment. Understand the process of transformation of ideas into opportunities. Understand the different fields of ideas. Enlist the various sources of idea fields. Explain the meaning of trend spotting. Identify the different ways of spotting trends.

<p>MARKETING</p>			<p>EMP SKILLS</p> <p>CHP 1 - GREEN SKILLS – IV</p> <p>1. the role and importance of green jobs in different sectors 2. the role of the government initiatives and policies for preservation of the green economy</p>	<p>1. Writing Notes 2. Explanation and delegation projects</p> <p>SSS SKILLS</p> <p>CHP 1 - PRODUCT</p> <p>1. meaning of Product in marketing 2. the components of Product 3. the characteristics and importance of a product 4. Differentiate between the product levels</p>	<p>5. the factors influencing the product mix 6. Product terms and decisions 7. Classify the products 8. the marketing strategies of the classified products</p>	<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Identify the role and importance of green jobs in different sectors 2. Listing of green jobs and preparation of posters on green job profiles 3. .Explain meaning of Product in marketing 4. To understand the components of a Product. 5. Provide Information regarding importance of the Product 6. Elucidate the various levels of product
<p>ENGINEERING GRAPHICS</p>			<p>Isometric Projection :Introduction of Isometric projection,Explanation of construction of</p>	<p>Isometric Projection : Single solids with axis perpendicular to HP</p>	<p>Isometric projection : single solids with axis parallel to both HP and VP</p>	<p>Understand the construction of title block with projection symbol,construction of isometric scale and single solids (All types of prisms)</p>

			<p>title block, Isometric projection of prisms, constucti on of isometric scale</p>			
PSYCHOLOGY			<p>1. Introduction, Syllabus and Chapter Overview 2. Individual Differences in Human Functioning 3. Assessment of Psychologic al Attributes 4. Intelligence</p>	<p>Theories of Intelligence: Psychometric Theories of Intelligence, Information Processing Theories,</p>	<p>Theory of Multiple Intelligences, Triarchic Theory of Intelligence, Planning, Attention-Arousal and Simultaneous Successive Model of Intelligence</p>	<p># To Understand the Attributes that make people differ from one another #To learn about various Assessment methods #To be able to distinguish between theories of Intelligence #To appreciate the concept of Multiple Intelligences # To demonstrate working Of PASS model</p>
PHYSICAL EDUCATION			<p>Unit 1 Management of Sporting Events 1. Functions of Sports Events Management (Planning, Organisin , Staffing, Directing</p>	<p>3. Fixtures and their Procedures – Knock-Out (Bye & Seeding) & League (Staircase, Cyclic, Tabular</p>	<p>5. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)</p>	<p>Describe the functions of Sports Event management * Classify the committees and their responsibilities in the sports event * Differentiate the different types of tournaments. * Prepare fixtures of knockout, league & combination Distinguish between</p>

			& Controlling) 2. Various Committees their Responsibilities (pre; during & post)	method) and Combination tournaments. 4. Intramural & Extramural tournaments – Meaning, Objectives & Its Significance		intramural and extramural sports events * Design and prepare different types of community
SOCIOLOGY			Introduction to Grade 12 and Unit 1 (non-evaluative): Introducing Indian Society	Unit 2: The Demographic structure of Indian Society -theories and concepts in demography	Unit 2: The Demographic structure of Indian Society -rural urban linkages and divisions	Familiarizing with the topics in the syllabus an overview of activities in the year To understand the demographic structure of India To learn about related concepts, theories and indicators To read analyze graphs and make sense of them To understand the themes explored in the sub units To successfully answer OTQ's and STQ's on the topic To engage students in activities related to the textbooks: population policy etc.

Indian School Wadi Kabir

Class: XII

**ISWK SHARING KNOWLEDGE
(Monthly Plan - April 2023)**

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	<p style="text-align: center;">LIT C.C. : MY MOTHER AT SIXTY -SIX (POEM) CNTD</p> <p style="text-align: center;">LIT: S.R.- THE THIRD LEVEL</p> <p style="text-align: center;">READING COMPREHEN SION</p>	<p style="text-align: center;">LIT: S.R.- THE THIRD LEVEL- cntd....</p> <p style="text-align: center;">LIT C.C - LAST LESSON</p> <p style="text-align: center;">PRACTICE FOR ASL</p>	<p style="text-align: center;">LIT C.C - LAST LESSON - CNTD</p> <p style="text-align: center;">EM – KEEPING QUIET</p> <p style="text-align: center;">WRITING: LETTER TO EDITOR -</p> <p style="text-align: center;">READIN G COMPRE HENSIO N</p>	<p>LIT.S.R.: TIGER KING</p> <p>INVITATI ON AND REPLIES</p>	<p style="text-align: center;">LIT.S.R.: TIGER KING - CNTD</p>	<p>students are able to write various types of invitations in the required format. to grasp the theme and meaning of the poem.</p>

<p>MATHEMATICS</p>		<p>Continuity, Differentiability, Points of discontinuity of Functions, identify points of non-differentiability of functions.</p>	<p>Derivatives of exponential and logarithmic functions, derivatives of functions in parametric form.</p>	<p>Exponential and logarithmic functions, Logarithmic differentiation,</p>	<p>Derivatives in parametric form. Second order derivatives, Mean value theorem</p>	<p>Understand the meaning of differentiability of a function. differentiable given an implicit function differentiate the functions of the using logarithmic differentiation</p>
<p>APPLIED MATHEMATICS</p>		<p>Probability-Probability distribution function</p>	<p>Mean variance and SD of pdf. Binomial distribution</p>	<p>Poisson distribution</p>	<p>Normal Distribution</p>	<p>Understand the concept of Random Variables and its Probability Distributions. Calculate the Variance and S.D. of a random variable Identify the Bernoulli Trials and apply Binomial Distribution Understand the Conditions of Poisson Distribution Understand normal distribution is a Continuous distribution Evaluate value of Standard normal variate Area relationship between Mean and Standard Deviation</p>

<p style="text-align: center;">PHYSICS</p>	<p>CHAPTER-2 – Electrostatic potential and capacitance.</p> <p>Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, Conductors and insulators, free charges and bound charges inside a conductor.</p> <p>electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.</p>	<p>Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation . capacitors and capacitance , combination of capacitors in series and in parallel.</p> <p>Capacitance of a parallel plate capacitor with and without</p>	<p>CHAPTER-3- Current Electricity, Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm’s law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. temperature dependence of resistance.</p>	<p>Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff’s laws and simple applications. Wheatstone bridge, Exercises and worksheet</p>	<p>CHAPTER 4 – Moving charges and magnetism, Concept of magnetic field, Oersted’s experiment. Biot-Savart law.</p>	<p>Students are able to:</p> <p>Define Electric potential, potential difference</p> <p>Derive a formula for electric potential due to a point charge, a dipole and system of charges;</p> <p>Draw equipotential surfaces.</p> <p>Explain about Conductors and insulators, free charges and bound charges inside a conductor.</p> <p>Define Dielectrics and electric polarisation.</p> <p>Explain about capacitance</p> <p>Derive formula for combination of capacitors in series and in parallel.</p> <p>*Capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.</p> <p>Explain about Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility</p>
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		<p>dielectric medium between the plates, energy stored in a capacitor.</p> <p>Worksheet and exercises.</p>				<p>and their relation with electric current;</p> <p>Illustrate Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), Define electrical energy and power, electrical resistivity and conductivity.</p>
CHEMISTRY	<p>Unit XI: Alcohols, Phenols and Ethers. Alcohols: Nomenclature, methods of preparation, Identification of primary, secondary and tertiary alcohols,</p>	<p>Identification of primary, secondary and tertiary alcohols, mechanism of dehydration. Phenols: Nomenclature, methods of preparation.</p>	<p>Physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation,</p>	<p>Unit XII: Aldehydes, Ketones and Carboxylic Acids. Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties.</p>	<p>Mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.</p>	<p>Students are able to:</p> <p>write equations for the preparation of alcohols by reduction of carbonyl and carboxylic compounds.</p> <p>compare the reactivity of primary, secondary and tertiary alcohols towards dehydration</p> <p>predict the products for halogenation, nitration and sulphonation of phenol</p>

	mechanism of dehydration. Physical and chemical properties.		physical and chemical properties, uses.			recall the IUPAC naming aldehydes, ketones and carboxylic acids apply the nucleophilic addition reaction on the reaction of simple aldehyde and ketones with HCN, NaHSO ₃ , Grignard reagents, alcohols etc.
BIOLOGY	Human Reproduction (Menstrual Cycle, Implantation, Pregnancy and Parturition)	Reproductive health -Contraceptives and ART.	Principles of inheritance and variations - Mendelian experiments	Sex determination and genetic disorders.	Molecular basis of inheritance -	Explain and understand Mendel's monohybrid and dihybrid experiment . draw the different laws like law of dominance, independent assortment, law of segregation. -Understand ABO- blood group and the concept of dominance, codominance and multiple allelism. -Sensitize that genetic disorders occur due to change in chromosome number, chromosomal aberrations and mutations..
INFORMATICS PRACTICES	Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration;	Data Frames: Attributes of a dataframe,	Sorting a dataframe, Selecting and accessing , modifying records from dataframe	Adding / modifying a row in a dataframe, Selecting a column from a dataframe, Deleting a		Students will learn - Creation of dataframe from 1. list 2. dictionary 3. Series To Sort the values ,

				column from a dataframe,		Updating records ,Deleting a row Deleting a column
COMPUTER SCIENCE	Creating user defined function, arguments and parameters, default parameters, positional parameters, key word arguments , variable length arguments	Function returning value(s), flow of execution, scope of a variable (global scope, local scope)	Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths	Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file,	Text File various operations	Students will learn : types of functions and their accessibility within the program i.e. private or public access. how to open text files in different modes and how to perform various operations on the same.
ACCOUNTANCY	Past Adjustment & Guarantee of profit	Goodwill: nature, factors affecting Goodwill Valuation of goodwill- Average profit and Super Profit Method	Valuation of goodwill. - Capitalization Method. Change in profit-sharing ratio. Calculation of New Ratio, Sacrificing Ratio, Gaining Ratio	Treatment of Reserves & Goodwill. Revaluation of assets and reassessment of liabilities.	Comprehensive sums relating to change in PSR including capital adjustment.	Apply the knowledge related to Comprehensive sums of fundamentals.Sums on guarantee and past adjustment. Methods of valuation- average Super profit and capitalization method.Methods of valuation- average Super profit and capitalization method Calculation of new ratio, gaining and sacrificing ratio.Entries for goodwill and reserves. Preparation of revaluation account. Preparation of revaluation account.Preparation of partners capital A/c and Balance sheet
BUSINESS STUDIES	Coordination Features and importance of Coordination	Fayol's principles of management	Business Environment- concept and importance	Dimensions of Business Environment- Economic, Social,	Planning process	Explain the meaning of coordination Discuss the concept and characteristics of coordination.

	Principles of Management Principles of Management- concept and significance	Taylor's Scientific management principles and techniques		Technological, Political and Legal Planning Concept, importance and limitation	Organising Concept and importance Organising process	Explain the importance of coordination Explain the significance of management principles Discuss the principles of management developed by Fayol Explain the principles and techniques of 'Scientific Management' Understand the concept of 'Business Environment' Describe the importance of business environment Describe the various dimensions of 'Business Environment' Describe the steps in the process of planning Understand the concept of organizing as a structure and as a process. Explain the importance of organising Describe the steps in the process of organizing
ECONOMICS	Indian economy on the eve of Independence: Demographic profile, Occupational structure	Indian economy (1950-1990): Types of economic system, Planning	National Income and Related Aggregates: Basic Concepts, Methods of measuring N.I	Product Method, Income Method, Precautions and Numericals	Expenditure Method, GDP and Welfare Numericals and Precautions	Understanding the situation of the Indian economy of all sectors in clear . Students will be able to understand how to calculate the N.I through various methods and precautions taken. Learning money is not important, other things play an

		Goals, Development in Agricultural, Industry and Trade				important role in the welfare of the people.
ENTREPRENEURSHIP	Creativity and Innovation. Selecting the Right Opportunity	Entrepreneurial Planning: Forms of Business Entities	Business Plan and its content	Content of Business Plan	Writing a business plan.	Differentiate the process of creativity and innovation. Understand the concept of opportunity assessment. Understand and distinguish among the various forms of Business enterprise. Explain the concept of Business plan. Who should write the plan. Importance of the business plan. Formats of a business plan. Components/parts of a business plan. Differentiate among the various components of Business plan. Understand the organizational plan, production plan. Understanding human resources plan, operational plan, financial plan, marketing plan.
MARKETING	CHP 1 - PRODUCT 1. Evaluate the features of the classified products 2. Explain various Types of	1. Understand the useful packaging decisions 2. Elucidate the functions of a good packaging 3. Types of packages	WRITING NOTES EMP SKILLS - CHP 2 SELF MANAGEMENT SKILLS - IV 1. Describe the various factors	SSS SKILLS CHP - 2 PRICE DECISION 1. the importance of pricing 2. the factors affecting pricing	(C) Competition oriented pricing - Methods (D) Value Based Pricing	Students will be able to: 1. Classify consumer goods along with their features. 2. Explain various Types of industrial goods and their features. 3. Comprehend the concept of Product Mix, Product line

	<p>industrial goods and their features</p> <p>3. Stages of Product Life cycles and related marketing strategies</p> <p>4. Explain the role and importance of Packaging</p>	<p>4. Comprehend the concept and role of labelling</p> <p>5. Classify the labels</p>	<p>influencing self motivation</p> <p>2. Describe the basic personality traits, types and disorders</p>	<p>3. 1. Types of pricing</p> <p>(A) Demand based pricing</p> <ul style="list-style-type: none"> - Types - Merits - Demerits <p>(B) Cost Oriented Pricing</p> <ul style="list-style-type: none"> - Types 		<p>4. Identify the various stages in a product life cycle</p> <p>5. Understand the response of marketers in these stages.</p> <p>6. Detail the concept of packaging along with the various roles it plays in marketing..</p> <p>7. Explain the importance of packaging and the functions of packaging.</p> <p>8. Comprehend the important features of good packaging and the types of packaging.</p> <p>9. Detail the concept of labeling in the current context</p>
<p>ENGINEERING GRAPHICS</p>	<p>Isometric projection of single solids :</p> <p>Isometric projection of pyramids- Upright pyramids</p>	<p>Isometric projection of single solids:</p> <p>Isometric projection of inverted pyramids</p>	<p>Isometric projection of single solids:</p> <p>Isometric projection of cylinder and cone</p>	<p>Isometric projection of sphere and hemisphere</p>	<p>Isometric projection of combination of solids :</p> <p>Combination of solids in both vertical positions</p>	<p>Understands how to construct the combination of solids with respect to the position of HP and VP.</p>
<p>PSYCHOLOGY</p>	<p><u>Individual Differences in Intelligence</u></p>	<p>9. Special Abilities:</p>	<p>Introduce chp 2. Lesson Overview</p>			<p># To learn how psychologists assess intelligence to identify mentally challenged</p>

	<u>Culture and Intelligence</u> <u>Emotional Intelligence</u>	Aptitude: Nature and Measurement 10.Creativity				and gifted individuals # To relate to the cultural differences in understanding Intelligence #To understand and implement Emotional Intelligence as an essential competency
PHYSICAL EDUCATION	Unit 2 Children & Women in Sports Exercise guidelines of WHO for different age groups. 2. Common postural deformities-knock knees, flat foot, round shoulders, Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures.	3. Women's participation in Sports – Physical, Psychological, and social benefits. 4. Special consideration (menarche and menstrual dysfunction) 5. Female athlete triad (osteoporosis, amenorrhea, eating disorders).	Unit 3 Yoga as Preventive measure for Lifestyle Disease 1. Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama.	2. Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Suptavajarasana 3. Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalbhata, Gomukhasana, Matsyaasana, Anuloma - Viloma.	4. Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, 5. Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasana, Urdhwahastottansana, Ardha-Chakrasana, Ushtrasana, Vakrasana, Sarala	Differentiate exercise guidelines for different stages of growth and development. * Classify common postural deformities and identify corrective measures. Identify the asanas beneficial for different ailments and health problems. * Recognize importance of various asanas for preventive measures of obesity, diabetes, asthma, hypertension, back pain and arthritis Outline the role of yogic management for various health benefits and preventive measures

					Maysyendrsana, Bhujandgasana,	
SOCIOLOGY	<p>Unit 2: The Demographic structure of Indian Society</p> <p>Presentations on sub topics by students in class</p> <p>Sex ration, literacy rates, age structure, regional differences, population policy</p>	<p>Unit 3: Social Institutions- Continuity & Change</p> <p>caste and caste system caste in the past and present</p>	<p>Unit 3: Social Institutions- Continuity & Change</p> <p>Tribal communities family and kinship</p>	<p>Unit 5: Patterns of Social Inequality & Inclusion</p> <p>Concept of social inequality and social exclusion systems justifying and perpetuating caste, tribe and OBC's</p>	<p>Unit 5: Patterns of Social Inequality & Inclusion</p> <p>Adivasi struggle</p>	<p>To understand the role and functions of social institutions</p> <p>To analyze family, caste and tribe in detail as social institutions</p> <p>To learn about the contributions of social reformers</p> <p>To understand the themes explored in the sub units</p> <p>To successfully answer OTQ's and STQ's on the topic</p> <p>To engage students in activities related to the textbooks: meghalaya succession Act etc</p> <p>To understand the concept of social inequality & inclusion</p> <p>To analyze stratifications systems -caste and tribe</p> <p>To learn about social exclusion of tribes, castes, women's equality, disabled</p> <p>To do a film review on a movie based on one of these forms of social exclusion</p> <p>To engage students in activities related to the textbooks: tribal movements</p>



Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE
(Monthly Plan - May 2023)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	LIT..C.C – DEEP WATER NOTICE – LOST AND FOUND	LIT..C.C – DEEP WATER- CNTD LIT S.R- THE ENEMY. PRACTICE FOR ASL	LIT S.R- THE ENEMY- CNTD WRITIN G- ARTICLE WRITIN G	LIT.C.C - THE RATTRAP UNIT TEST	LIT.C.C - THE RATTRAP cntd... POEM- A THING OF BEAUTY	Students will be able to use appropriate style and format to write a NOTICE effectively. The learners would unfold their logical thinking skills, They are able to speak and write about importance of perseverance

			UNIT TEST STARTS			
MATHEMATICS	Types of Matrices, Operations on matrices, Transpose of a matrix, Symmetric and skew symmetric matrices, Elementary row transformations of a matrix, Inverse of a matrix	Properties of determinants, Area of a triangle, Minors and cofactors, Adjoint and inverse of a matrix, Applications of determinants and matrices	Rate of change of dependent variable due to change in independent variable, increasing and decreasing functions,	equation of tangent and normal at a point on the given curve, error in a variable due to error in another variable,	Approximate values of quantities using derivatives	Defining matrices use matrix notation determine the order of a matrix solve problems on rate of change of y with respect to x where $y = f(x)$ is a function of x
APPLIED MATHEMATICS	Practice problems_Probanilt y	Calculus: Derivatives,, higher order derivatives	Application of derivatives	Maxima and minima	Analysis of functions: Sums related on life situations	To find the rate of change of quantities Examples related to marginal cost, marginal revenue, etc. Simple problems related to increasing and decreasing behaviour of a function To find local maxima and local minima by:

						i) First Derivative Test ii) Second Derivative Test Contextualised real life problems
PHYSICS	<p>Application of biot-savart law. to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoids(qualitative treatment only). Force on a moving charge in uniform magnetic and electric fields.</p> <p>Force on a current-carrying conductor in a uniform magnetic field.</p>	<p>Force between two parallel current-carrying conductors- definition of ampere. Torque experienced by a current loop in uniform magnetic field. Moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter. Exercises and worksheet.</p>	<p>CHAPTER-5- Magnetism and matter. Current loop as a magnetic dipole and its magnetic dipole moment Magnetic dipole moment of a revolving electron. Earth's magnetic field and magnetic elements. Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines;</p>	<p>Earth's magnetic field and magnetic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths. Permanent magnets.</p>	Numerical	<p>Students are able to:</p> <p>State biot-savart law and Ampere's law and its applications to infinitely long straight wire.</p> <p>Derive an expression for Force on a moving charge in uniform magnetic and electric fields.</p> <p>Derive an expression for Force between two parallel current-carrying conductors- Define ampere. Derive an expression for Torque experienced by a current loop in uniform magnetic field.</p>

<p style="text-align: center;">CHEMISTRY</p>	<p>Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.</p>	<p>Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.</p>	<p>Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.</p>	<p>Unit XIV: Biomolecules. Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose). polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates.</p>	<p>Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), Denaturation of proteins.</p>	<p>Students are able to:</p> <p>identify the product of reduction, decarboxylation , HVZ reaction and ring substitution</p> <p>visualise the 3D structure of amines with the help of models and software.</p> <p>differentiate aromatic primary amines from other amines by the azo dye test.</p> <p>classify carbohydrates on the basis of their structure (hydrolysis behaviour), functional group (aldoses and ketoses) and reducing properties.</p> <p>draw the zwitter-ionic structure of amino acids</p>
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<p>BIOLOGY</p>	<p>Molecular basis of inheritance – DNA replication</p>	<p>Molecular basis of inheritance -Transcription</p>	<p>Molecular basis of inheritance – Genetic code</p>	<p>Molecular basis of inheritance - Translation</p>	<p>Molecular basis of inheritance - HGP, DNA fingerprinting</p>	<ul style="list-style-type: none"> -To understand the process of DNA synthesis. - Skill: To represent the events schematically & to draw and label the diagrams. -To understand the process of protein synthesis -Understand the Human Genome project which provides information for various genetic diseases and its treatments. -Understand and express the different pattern of sequencing of DNA by the process of DNA fingerprinting. -To evaluate the importance Human genome project in preventing inherited disease
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INFORMATICS PRACTICES	binary operations, iteritems(), missing data and filling values	Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels,	Boolean Indexing; Joining, Merging and Concatenation.	Importing/Exporting Data between CSV files and Data Frames	To Create a frame and and y all operations like ating the data, add/ te a row, add or d te a column , ming the index etc	Students will learn to - 1. adding , deleting a column 2. renaming a column 3. boolean indexing Students will learn about how to perform various operations on data frame which includes: 1. Importing data from CSV to dataframe 2. Exporting data from dataframe to CSV
COMPUTER SCIENCE	Text file opening using with clause, writing/appendng data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods	Manipulation of data in a text file, Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+)	close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file	CSV file: import csv module, open / close csv file, write into a csv file using csv.writer() and read from a csv file using csv.reader()	Data Structure: Stack, operations on stack (push & pop),	Students will learn how to perform various operations on CSV file. STACK (LIFO - Last In First Out) data structure
ACCOUNTANCY	Comprehensive sums relating to change in PSR including capital adjustment Admission of a new Partner: *New Ratio, Sacrificing Ratio. *Treatment of Goodwill and Reserves.- IFR,GR,WCR,	Revaluation A/c-Sharing of revaluation profit /loss. Adjustments of Capital Accounts	Comprehensive problems.	Financial Statement Analysis: Format of Position Statement and Income Statement RATIO ANALYSIS:Liquidity Ratios ;Solvency	Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on InvestmentActivity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover	Understand and apply knowledge related to Calculation of SR. Entries for Goodwill in different cases.

				Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio.	Ratio, Trade Payables Turnover Ratio , Fixed Asset Turnover Ratio , Net asset Turnover Ratio and Working Capital Turnover Ratio	Entries and posting of reserves Preparation of Revaluation A/c and partners 'capital A/c Comprehensive sums on admission Comprehensive sums on admission. Develop the skill of analysis of Financial Statements. Develop the skill of computation of Liquidity and debt equity ratio, total asset to debt ratio, proprietary ratio and interest coverage ratio Develop the skill of computation of gross profit ratio, operating ratio, operating profit ratio, net profit ratio and return on investment
BUSINESS STUDIES	Structure of organisation-functional and divisional concept	Decentralisation: concept and importance	Marketing Mix – Concept and elements	Product - branding, labelling and packaging – Concept	Price - Concept, Factors determining price	Describe functional and divisional structures of organisation.

	<p>Delegation: concept, elements and importance</p>	<p>Marketing – Concept, functions and philosophies</p>			<p>Physical Distribution – concept</p>	<p>Understand the concept of delegation. Describe the elements of delegation. Understand the concept of decentralisation. Differentiate between delegation and decentralisation Understand the concept of marketing. Discuss the functions of marketing. Explain the marketing philosophies Understand the concept of marketing mix. Understand the concept of product as an element of marketing mix Understand the concepts of branding, labelling and packaging. Understand the concept of price as an element of marketing mix. Describe the factors determining price of a product</p>
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						Understand the concept of physical distribution viz., components of physical distribution
ECONOMICS	Economic Reforms since-1991: Need for economic reforms,its features Liberalisation	Globalisation Meaning and Objectives	Outsourcing, WTO Privatisation- An appraisal of LPG Policies	Human Capital Formation: Meaning, Role of HCF in Eco development	Problems of HCF. Measures taken by the govt to promote the development of HCF	Understanding the situation that gave rise to NEP Learns how the conditions of Indian economy improved after the reform period. Understands the merits and demerits of NEP. Understands the role of HCF in the development of the country.


<p>ENTREPRENEURSHIP</p>	<p>Enterprise Marketing: Goals of Business; Goal Setting; SMART Goals. Marketing and Sales strategy</p>	<p>Marketing Mix: Product Mix, Tagline, Logo, Pricing</p>	<p>Promotion Strategies</p>	<p>Physical Distribution</p>	<p>Public Relation</p>	<p>Various marketing strategies used in a Business firm and setting of objectives. Understand the concepts of Product, Price, Place and Promotion. Understand the concept of Branding, Packaging and Labelling. Various methods of pricing. Understand the sales strategy. State the different types of components of sales strategy. Enumerate the different tools of promotion. Understand the meaning and objectives of Advertising. Able to discuss the various modes of Advertising. Understand the concept of personal selling and sales promotion. The various techniques of sales promotion. Various channels of distribution. Appreciate the various factors affecting the channels</p>
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						of distribution. Tools for public relations.
MARKETING	<p>SSS SKILLS CHP 2 - PRICE DECISION</p> <p>1. the major pricing methods - Competitive Pricing - Penetration Pricing - One Price versus Variable Pricing - Market Skimming Pricing - Discrimination or Dual Pricing - Premium Pricing - Leader Pricing - Psychological Pricing - Price Lining - Resale Price Maintenance - Everyday low pricing - Team pricing</p> <p>2. Writing Notes</p>	<p>Writing Notes</p> <p>EMP SKILLS- CHP 1 COMMUNICATION SKILLS - IV</p> <p>1. Importance of active listening at workplace 2. Steps to active listening</p> <p>SSS SKILLS CHP 3 - PLACE AND DISTRIBUTION</p> <p>1. Explain meaning and importance of place 2. Comprehend the functions performed by channels of distribution 3. Classify the types of distribution channels</p>	<p>1. Understand the marketing intermediaries involved in distribution channels</p> <p>2. Elucidate the functions performed by the intermediaries</p> <p>(A) Wholesaler - Functions</p> <p>(B) Retailer - Functions</p> <p>3. Differentiate between the wholesaler and retailer</p>	<p>3. Identify and comprehend the Factors Affecting the Selection of the Channel of Distribution - Factors pertaining to the product - Factors Pertaining to the Consumer or Market - Factors Pertaining to the Middlemen - Factors Pertaining to the Producer or Company</p> <p>5. Writing Notes</p>	<p>Writing Notes</p> <p>ICT SKILLS - IV</p> <p>1. Perform tabulation using spreadsheet application 2. Prepare presentation using presentation application</p>	<p>Students will be able to:</p> <p>1. understand Nature and importance of distribution channel for Place 2. understand the role of Manufacturers, Intermediaries, Facilitating agencies, and Consumers 3. understand Functions performed by channels of distribution 4. understand types of distribution 5. understand different intermediaries involved for place</p>

<p>ENGINEERING GRAPHICS</p>	<p>Isometric projection of combination of solids : Combination of solids in horizontal positions</p>	<p>Unit 2 : Machine Drawing - Introduction and screw threads and its definitions.</p>	<p>Types of screw threads: BSW thread, Metric thread internal and Metric thread external</p>	<p>Types of screw threads : Knuckle thread and square thread</p>	<p>Types of bolts : Hexagonal bolt and square bolt</p>	<p>Understands and illustrate different machine parts</p>
<p>PSYCHOLOGY</p>	<p>Culture and Self Concept of Personality Cultural Approach Humanistic Approach</p>	<p>Major Approaches to the Study of Personality Type Approaches</p>	<p>Trait Approaches Psychodynamic Approach and Post Freudian Approaches Behavioural Approach UNIT TEST</p>	<p>8. Assessment of Personality Self-report Measures Projective Techniques Behavioural Analysis</p>	<p>Recap of main topics</p>	<p>Students will be able to appreciate various definitions and approaches to Personality. Students can compare and Contrast various theories based on Personality * Students can evaluate multiple methods of Personality assessment.</p>
<p>PHYSICAL EDUCATION</p>	<p>Unit 4 Physical Education and Sports for CWSN 1. Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)</p>	<p>2. Concept of Classification and Divisioning in Sports.</p>	<p>3. Concept of Inclusion in sports, its need, and Implementation;</p>	<p>4. Advantages of Physical Activities for children with special needs.</p>	<p>5. Strategies to make Physical Activities assessable for children with special needs.</p>	<p>* Value the advantages of physical activities for children with special needs * Differentiate between methods of categorization in sports for CWSN* Strategies physical activities accessible for children with specialneeds</p>

<p>SOCIOLOGY</p>	<p>Unit 5: Patterns of Social Inequality & Inclusion</p> <p>struggle for women's equality and rights</p> <p>differently abled</p>	<p>Notes, QB and Revision for Unit 2,3 & 4</p> <p>Project briefing and research methodology</p>	<p>Unit 6: The Challenges of Cultural Diversity</p> <p>cultural communities and nation states</p>	<p>Unit 6: The Challenges of Cultural Diversity</p> <p>regionalism in the Indian context</p> <p>nation state and religious identities</p>	<p>Unit 6: The Challenges of Cultural Diversity</p> <p>communalism, secularism and the nation state</p> <p>state and civil society</p>	<p>To understand the concept of social inequality & inclusion</p> <p>To analyze stratifications systems -caste and tribe</p> <p>To learn about social exclusion of tribes, castes, women's equality, disabled</p> <p>To do a film review on a movie based on one of these forms of social exclusion</p> <p>To engage students in activities related to the textbooks: tribal movements</p> <p>Students prepare a project draft and also finalize the questions in their questionnaire</p> <p>To understand the concept of cultural diversity and how it causes problems</p> <p>To analyze identity related to Nation states, community</p> <p>To learn about communalism, secularism and nation state</p>
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						<p>To understand regionalism, identities related to religion in the Indian context</p> <p>To engage students in activities related to the textbooks: Right to Information (RTI) etc.</p>
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 <p style="text-align: center;">Indian School Wadi Kabir ISWK SHARING KNOWLEDGE (Monthly Plan - June 2023)</p>						
Class: XII						
SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	LIT.. POEM- A THING OF BEAUTY CNTD	WRITING- ARTICLE LETTER TO EDITOR				Students will be able to use appropriate style and format to write an application effectively.

MATHEMATICS	Approximate values of quantities using derivatives.	Maxima and minima				Tangents and normal approximation, maxima and minima (first derivative test Local Maxima /Local Minima and second derivative test
APPLIED MATHEMATICS	Calculus: Strictly increasing decreasing functions	Calculus: Find the absolute maximum and absolute minimum value of a function				Determine critical points of the function
PHYSICS	APPLICATION QUESTIONS	EXERCISES				Students are able to: <ul style="list-style-type: none"> • Solve the application and exercise questions.
CHEMISTRY	Enzymes. Hormones excluding structure.	Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.				Students are able to: <p>appreciate specificity of enzymes towards a particular substrate.</p> <p>appreciate the role of nucleic acids as carriers of genetic information.</p> <p>compare the structural features of DNA and RNA</p>

BIOLOGY	Evolution – Origin of life, evidences for evolution	Adaptive radiation, Hardy-Weinberg principle Human evolution				<p>-Understand different theories on evolution.</p> <p>-The learners could apply the knowledge of evolution of human beings by the molecular study of analogous and homologous organs in animals and their anatomical evidence.</p> <p>-Understand the brief history of human evolution .</p>
INFORMATICS PRACTICES	Updating content in a CSV file, Writing a CSV file with default index.					Students will learn about how to update a CSV file and add records in default index
COMPUTER SCIENCE	Implementation of stack using list.					Students will be able to learn implementation of stack using a real time example.
ACCOUNTANCY	Turnover Ratios	Net asset Turnover Ratio Turnover Ratio and Working Capital Turnover Ratio				<p>Develop the skill of computation of inventory turnover ratio, trade receivables and trade payables ratio and working capital turnover ratio and others</p> <p>Develop the skill of computation of inventory turnover ratio, trade receivables and trade</p>

						payables ratio and working capital turnover ratio and others
BUSINESS STUDIES	Promotion – Concept and elements; Advertising, Personal Selling,	Promotion – Concept and elements; Sales Promotion and Public Relations	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	Understand the concept of promotion as an element of marketing mix. Describe the elements of the promotion mix. Understand the concept of advertising and personal selling Understand the concept of sales promotion. Discuss the concept of public relations.
ECONOMICS	Problems of Human Capital Formation.	Measures taken by the Government.				Learns the measures taken by the Government to promote HCF.
ENTREPRENEURSHIP	Enterprise Growth Strategies: Growth & Development	Types of business growth	SUMMER VACATION	SUMMER VACATION	SUMMER VACATION	Understand the concept of growth & development of an enterprise.
MARKETING	ICT SKILLS - IV writing notes	REVISIONS OF ALL THE TOPICS COMPLETED	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	
ENGINEERING GRAPHICS	Types of nuts , and washer	Combination of nut ,bolt and washer and conventional representation of threads	SUMMER BREAK			Understand how to develop or assemble three parts together ,nut ,bolt and washer and the new concept free hand sketches

PSYCHOLOGY	<p>Chp 3.Meeting Life Challenges Introduction Nature, Types and Sources of Stress Effects of Stress on Psychological Functioning and Health</p> <ul style="list-style-type: none"> •Stress and Health •General Adaptation Syndrome •Stress and Immune System •Lifestyle 	<p>Coping with Stress</p> <ul style="list-style-type: none"> • Stress Management Techniques <p>5. Promoting Positive Health and Well-being</p> <ul style="list-style-type: none"> •Life Skills • Positive Health <p>Psychological tests related to various psychological attributes like intelligence, aptitude, attitude, personality,etc.</p>				<p>*Learners will be able to understand different model explaining about Stress. *They can appreciate various methods to overcome stress</p>
PHYSICAL EDUCATION	<p>Unit 5 Sports & Nutrition</p> <p>1. Concept of balanced diet and nutrition 2. Macro and Micro Nutrients: Food sources & functions 3. Nutritive & Non-Nutritive Components of Diet</p>	<p>4. Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths</p> <p>5. Importance of Diet in Sports-Pre, During and Post competition Requirements</p>	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	<p>* Understand the concept of a balanced diet and nutrition. Classify Nutritive and Non-Nutritive components of the Diet * Identify the ways to maintain a healthy weight Know about foods commonly causing food intolerance * Recognize the pitfalls of dieting and food myths</p>
SOCIOLOGY	<p>Unit 6: The Challenges of Cultural Diversity</p>	summer break	SUMMER BREAK	SUMMER BREAK		<p>To understand the concept of cultural diversity and how it causes problems</p>

	Notes completion					<p>To analyze identity related to Nation states, community</p> <p>To learn about communalism, secularism and nation state</p> <p>To understand regionalism, identities related to religion in the Indian context</p> <p>To engage students in activities related to the textbooks: Right to Information (RTI) etc.</p>
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<p style="text-align: center;">Indian School Wadi Kabir</p> <p style="text-align: center;">Class: XII</p> <p style="text-align: center;">ISWK SHARING KNOWLEDGE</p> <p style="text-align: center;">(Monthly Plan - August 2023)</p>						
SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	THE RATRAP (FLAMINGO) NOTICE – LOST AND FOUND	THE RATRAP continued. ARTICLE WRITING COMPREHENSION KEEPING QUIET (FLAMINGO - POEM) THE TIGER KING	JOURNEY TO THE END OF THE WORLD(VISTAS) LETTER TO EDITOR	INDIGO (FLAMINGO) INVITATION - FORMAL	INDIGO (FLAMINGO)- CNTD INVITATION - INFORMAL	STUDENTS WILL BE - ABLE TO WRITE THE VARIOUS WRITING TASKS USING CORRECT FORMAT, LAYOUT AND LANGUAGE. ABLE TO ANSWER SHORT AND LONG ANSWER TYPE QUESTIONS BASED ON LOCAL AND GLOBAL COMPREHENSION OF THE CHAPTERS

MATHEMATICS	Integration as an inverse process of differentiation, Methods of Integration,	Integration of special functions, Method of Partial fractions, By-Parts.	Definite Integral, Definite integral using substitution and properties	Definite Integral, Definite integral using substitution and properties	Practice problems	Define the terms: primitive or anti derivative and indefinite integrals. Understand the geometrical interpretation of indefinite integrals. To define integration using trigonometric identities To valuate definite integrals by suitable substitution. To evaluate definite integral as a limit of sum
APPLIED MATHEMATICS	Calculus: Integrals	Methods of integration: Substitution, PF and by parts	Definite integrals, Producers surplus and consumer surplus	Application of integrals	Practice problems	Understand and determine indefinite integrals of simple functions as antiderivative Evaluate indefinite integrals of simple algebraic functions by method of: i) substitution ii) partial fraction iii) by parts Define definite integral as area under the curve Understand fundamental theorem of Integral calculus and apply it to evaluate the definite integral Apply properties of definite integrals to solve the problems_CS and PS
PHYSICS	Chapter-6- Electromagnetic induction;		Q-factor, wattless current etc. Losses in transformer and	CHAPTER-9-Ray optics- Reflection of light, spherical mirrors, mirror	Optical instruments. Microscopes and astronomical	Students are able to * state Faraday's laws and Lenz's law. * State self and mutual induction.

	<p>Faraday's laws, induced emf and current; Lenz's Law. Self and mutual induction.</p> <p>Exercises and worksheet.</p>	<p>Chapter-7- Alternating currents- peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (Phasors only) resonance;</p>	<p>transformation ratio. power in AC circuits wattless current. AC generator and transformer.</p> <p>CHAPTER-8- ELECTROMAGNETIC WAVES - Displacement current. Electromagnetic waves- production properties and uses.</p>	<p>formula. "Refraction of light, total internal reflection and its applications, optical fibres,</p>	<p>telescopes (reflecting & refracting) and their magnifying powers</p>	<ul style="list-style-type: none"> * Derive equations for self and mutual inductance. * derive formula for peak and rms value of ac current. * explain about LCR circuit, impedance and phasor diagrams. Illustrate about power in AC circuits wattless current. AC generator and transformer. * Explain about displacement current. * Differentiate different electromagnetic waves based on its properties and uses. * Define the various definitions * Explain about total internal reflection and its applications. * Derive lens formula, mirror formula, Refraction through spherical surfaces, Lens maker's formula. Analyses, applies and solves the questions based on the chapter.
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<p>CHEMISTRY</p>	<p>Unit II: Solutions Solid solutions, Raoult's law</p>	<p>colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.</p>	<p>Unit III: Electrochemistry: Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions.</p>	<p>Specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.</p>	<p>Unit IV: Chemical Kinetics Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst</p>	<p>Students are able to:</p> <p>appreciate the phenomena of solubility of a gas in liquid</p> <p>interpret the graphical plot for Raoult's Law</p> <p>use van't Hoff factor to modify the expressions of Colligative properties and solve problems based on such expressions</p> <p>analyse the variation of conductivity and molar conductivity with concentration for both Strong and Weak Electrolytes as well as Interpret their graphical plots</p> <p>define and express Rate of a reaction in terms of different Reactants and Products</p>
<p>BIOLOGY</p>	<p>Human health and diseases - infectious diseases</p> <p>Life cycle of Plasmodium</p> <p>-Cancer</p>	<p>AIDS</p> <p>Drug and alcohol abuse</p>	<p>Microbes in Human welfare - House hold, industrial and agricultural roles</p>	<p>Sewage treatment biocontrol agents biofertilizers</p>	<p>Biotechnology - principles and processes Introduction, Tools</p>	<p>-Explain about immunity its type : inborn or acquired , Active and passive</p> <p>-Inculcate self control, determination to keep away from social diseases like, smoking, drinking, drugs etc.</p> <p>-Understand the concept of Addiction and explain different social disease like, smoking, drinking, drugs</p>

						<p>-Appreciate the useful use of microbes in day to day life.</p> <p>-Understand and express the benefits of bacteria in probiotics, antibiotics etc</p> <p>-To explore the critical thinking of the society that microbes are not always bane but act as boon in our daily life-sewage treatment & biofertilizers.</p>
INFORMATICS PRACTICES	Introduction – matplotlib, Installing matplotlib. Types of visualization- Basic visualization rules, basic nomenclature of a plot.	Types of visualization- Basic visualization rules, basic nomenclature of a plot. Line plot,.	bar chart, line chart and histogram	MySQL Revision on DML commands select statement, where, - between, like, in , is null etc..	MYSQL- DDL and DML commands- select statement with where clause and order by clause	<p>Students will learn about</p> <ol style="list-style-type: none"> 1.How to create graph with continuous data 2.Handling with multiple plots and views 3. Displaying cumulative frequency distribution <p>Recall the concepts of Database and SQL commands</p> <ol style="list-style-type: none"> 1. Create Table Command 2. Select Statement
COMPUTER SCIENCE	Database concepts: introduction to database concepts and its need	Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)	Structured Query Language: introduction, Data Definition Language and Data Manipulation Language,	Alter table (add and remove an attribute, add and remove primary key), drop table, insert , delete , select, operators (mathematical, relational and	DDL and DML commands with all clauses like where , order by , group by , having	<p>Students will learn the purpose of creating a Database and its advantages compared to traditional method.</p> <p>Students will be able to make alterations on the structure of table by adding an attribute or removing any.</p>

			<p>data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key),</p>	<p>logical), aliasing, distinct clause, where clause, in, between, order by</p>		
<p>ACCOUNTANCY</p>	<p>CASH FLOW STATEMENT:Meaning and objectives. Types of activity & flow of cash. Preparation of Cash Flow Statement using indirect method with adjustments</p>	<p>Preparation of Cash Flow Statement using indirect method with adjustments.(Contd.) RETIREMENT & DEATH OF A PARTNER:Meaning and effect of retirement/death of a partner on change change in profit sharing ratio. Accounting treatment of goodwill and revaluation of assets and reassessment of liabilities.</p>	<p>RETIREMENT & DEATH OF A PARTNER:Treatment of accumulated profits and reserves.Adjustment of capital accounts and balance sheet.Loan account of the retiring partner.</p>	<p>Deceased partner's share of profit till the date of death. Treatment of Goodwill, revaluation and reserves.</p>	<p>Deceased partner's capital account and his executor's account.</p>	<p>State the meaning and objectives of the cash flow statement. Develop the understanding of preparation of Cash Flow Statement using indirect methods as per AS 3 with given adjustments. Develop the understanding of preparation of Cash Flow Statement using indirect methods as per AS 3 with given adjustments. Explain the effect of retirement / death of a partner on change in profit sharing ratio. develop the understanding of accounting treatment of goodwill, revaluation of assets and reassessment of liabilities . Adjustment of accumulated profits, losses and reserves on retirement / death of a partner and capital adjustment. Develop the skill of calculation of deceased partner's share till the time of his death and prepare deceased partner's and executor's account. Prepare deceased partner's and executor's accounts.</p>

BUSINESS STUDIES	Marketing – Concept, functions and philosophies Recap	Marketing Mix – Concept and elements . Product - branding, labelling and packaging – Concept	Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations	Physical Distribution – concept, components and channels of distribution	Concept and importance of staffing . Staffing as a part of Human Resource Management concept . Staffing Process	Explain the meaning of ‘marketing’; distinguish between ‘marketing’ and ‘selling’; list out important functions of marketing; examine the role of marketing in the development of an economy in a firm, to the society and to consumers; explain the elements of marketing-mix; Classify products into different categories Understand the concept of promotion as an element of marketing mix. Describe the elements of the promotion mix. Understand the concept of advertising and personal selling Explain the different elements of physical distribution and explain the different channels of distribution Define staffing; establish its relationship with Human Resource Management; state the need and importance of staffing; describe the steps in the staffing process;
ECONOMICS	Determination of Income and Employment: AD and its components	Short-run equilibrium output; investment	Meaning of full employment and involuntary unemployment	Rural Development: Key issues : Credit and Marketing	Agricultural Diversification,Al ternative farming,Organic farming - Merits n Demerits	Learns the concepts Understands aggregate demand, Working of Investment Multiplier

	Propensity to save and Consume	Multiplier and its mechanism		Role of cooperatives		
ENTREPRENEURS HIP	Franchising: Concept and types	Franchising: Advantages and limitations to franchisor and franchisee.	Mergers and Acquisition: Concept, reasons and types.	Reasons for mergers and acquisitions.	Business Arithmetic: Unit of Sale, Unit Cost for multiple products or services. Break even Analysis for multiple products or services	The concept of franchise. Different types of franchise. The concept, types, advantages and limitations of franchising. Content of franchise Agreement. Appreciate growth of business through mergers and acquisitions. Discuss the different types of mergers and acquisitions. Evaluate the reasons for mergers and acquisitions. Understand the concept of Unit Cost and Unit Price and calculate. Calculate Break-even point for Multiple products and services.
MARKETING	SSS SKILLS CHP 4- PROMOTION 1. Explain the meaning and importance of Promotion 2. Comprehend the elements of promotion mix	Modes of Advertising b. Magazines - Merits - Demerits c. Yellow page - Merits - Demerits Radio TV Cinema	(D) Word of Mouth (E) Direct Marketing (F) Online Marketing (G) Public Relations (H) Sponsorships	writing notes EMP SKILLS CHP 4 Entrepreneurial Skills - IV 1. Understand the meaning and	4. Understand the Roles and functions of an entrepreneur 5. Analyze the motivating factor for an entrepreneur	Students will be able to: 1. Identify the concept of promotion 2. Specify the importance of Promotion. 3. Identify the elements of Promotional Mix. 4. List out the factors in the selection of Promotional Mix

	(A) Advertising - Meaning - Modes of Advertising I. Print Media a. Newspaper - Merits - Demerits	Outdoor Others (B) Sales Promotion - Objectives - Types 3. Differentiate between Advertising and Sales Promotion (C) Personal Selling 4. Difference between Personal selling and Sales Promotion	5. Factors affecting Selection of Promotion Mix 6. writing notes	characteristics of entrepreneurs 2. Identify the qualities of an entrepreneur 3. Differentiate between the types of entrepreneur (12 types)	6. Highlight the concept of Startups 7. Comprehend the Barriers to Entrepreneurship 8. Inculcate Entrepreneurial Attitudes 9. Understand the Entrepreneurial Competencies 10. Ways to develop Stress Management 11. Ways to develop Time Management 12 Writing notes	5. . Identify the general and entrepreneurial behavioral competencies 6. Demonstrate the knowledge of self assessment of behavioural competencies
ENGINEERING GRAPHICS	Machine drawing -Free hand sketches : Types of studs	Types of Rivet heads and Machine screws	Unit 3 : Bearings -Introduction to the new chapter ,concept of Assembling of bushed bearing.	Bushed bearing : Disassembly	Open bearing : Assembly	Knowledge of drawing the disassembled view from the assembled view.
PSYCHOLOGY	Anxiety Disorders Obsessive-Compulsive and Related Disorders	Somatic Symptom and Related Disorders	Bipolar and Related Disorders	Feeding and Eating Disorders	Chp. 5- Introduction to the Chapter	Learners will be able to- * Differentiate between different disorders

	Trauma-and Stressor-Related Disorders	Dissociative Disorders Depressive Disorder	Schizophrenia Spectrum and Other Psychotic Disorders Neurodevelopmental Disorders Disruptive, Impulse-Control and Conduct Disorders	Substance Related and Addictive Disorders	Therapeutic Approaches The topics in this unit are: 1. Nature and Process of psychotherapy Therapeutic relationship	*Relate to real life examples and cases ----- Chp 5- * understand how approaches to therapy differ *Recall the basic steps of Therapy
PHYSICAL EDUCATION	Unit 6 Test & Measurement in Sports 1. Fitness Test – SAI Khelo India Fitness Test in school:	2. Measurement of CardioVascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise.	3. Computing Basal Metabolic Rate (BMR)	4. Rikli & Jones - Senior Citizen Fitness Test Chair Stand Test for lower body strength Arm Curl Test for upper body strength Chair Sit & Reach Test for lower body flexibility Back Scratch Test for upper body	flexibility Eight Foot Up & Go Test for agility Six-Minute Walk Test for Aerobic Endurance 5. Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping fullturn	* Perform SAI Khelo India Fitness Test in school [Age group 5-8 years/ (class 1-3) and Age group 9-18yrs/ (class 4-12) * Determine physical fitness Index through Harvard Step Test/Rockport Test * Compute Basal Metabolic Rate (BMR) * Describe the procedure of Rikli and Jones - Senior Citizen Fitness Test
SOCIOLOGY	Unit 8: Structural Change Understanding colonialism	Unit 8: Structural Change Understanding industrialization Urbanisation	Unit 9: Cultural Change Social Reform Movements	Unit 9: Cultural Change Westernization, secularisation, modernization	Unit 11: Change and Development in Rural society Agrarian structure: class	To understand the concept of structural change that resulted in the wake of colonialism To closely look at structural changes: industrialization and urbanization

	<p>Understanding industrialization</p>		<p>Kinds of social change-Sanskritization</p>		<p>and caste in rural India</p>	<p>To learn about the British colonial experience of India</p> <p>To contextualize structural change through the example of tea plantations</p> <p>To engage students in activities related to the textbooks: Population in metropolitan areas etc.</p> <p>To successfully answer OTQ's and STQ's on the topic</p> <p>To understand the concept of cultural change that resulted due to structural changes in post colonial India</p> <p>To closely look at social reform movements & organizations in 19th & 20th C</p> <p>To learn about the Sanskritization and its different types</p> <p>To get an in depth understanding of Westernization, Modernization & Secularization</p>
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						To engage students in activities related to the textbooks: Rituals & Modernity etc.
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<p style="text-align: center;">Indian School Wadi Kabir ISWK SHARING KNOWLEDGE (Monthly Plan - September 2023)</p>						
Class: XII						
SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	THE ENEMY (VISTAS) COMPREHENSION	THE ENEMY -Continued FORMAL AND INFORMAL INVITATION REPLIES	A THING OF BEAUTY (FLAMINGO - POEM) REPORT WRITING - SCHOOL MAGAZINE	ASSESSMENT 1	ASSESSMENT 1	STUDENTS WILL BE - ABLE TO WRITE THE VARIOUS WRITING TASKS USING CORRECT FORMAT, LAYOUT AND LANGUAGE. ABLE TO ANSWER SHORT AND LONG ANSWER TYPE QUESTIONS BASED ON LOCAL AND GLOBAL COMPREHENSION OF THE CHAPTERS
MATHEMATICS	Introduction to application of integrals. Area under simple curves	Formation of differential equation, Solution to first order, first degree	Revision for ASSESSMENT 1	Revision for ASSESSMENT 1	Revision for ASSESSMENT 1	identify a differential equation Finding the order and degree of a differential equation verify that the given solution is solution of a given differential equation. Solve differential equations in variable separable form Determine particular solution, when initial values are given

	How to use Application of integrals in real life	differential equations				Solve differential equations that are reducible to variable separable form
APPLIED MATHEMATICS	Calculus_Differential equations	Differential equations_Application	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Recognize a differential equation Define Growth and Decay Model Apply the differential equations to solve Growth and Decay Models
PHYSICS	CHAPTER-10-WAVE OPTICS.Huygens principle. Revision for assessment-1	Revision for assessment-1	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Students are able to: *state Huygens principle. Apply the acquired knowledge in solving the questions.
CHEMISTRY	Order and molecularity of a reaction, rate law and specific rate constant. integrated rate equations and half-life (only for zero and first order reactions).	Concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Students are able to: derive the units of rate constant for reactions having different orders comprehend the concept of rate determining step list the drawbacks of Collision Theory

BIOLOGY	Biotechnology – principles and processes contd. Biotechnology – application : Application in agriculture and medicine PCR & DNA Sequencing	Transgenic organisms	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	<ul style="list-style-type: none"> -Apply procedures to identify recombinants -Acquire knowledge of DNA sequencing, -Enumerate the applications of PCR. Illustrating the examples like insulin, Hepatitis B vaccine etc developed by using this technique playing important role in improving health -Understand techniques of isolating, purifying and manipulating the DNA. -Learn methods of gene sequencing and DNA fingerprinting -To analyse the significance of transgenic organisms in the field of medicines, vaccines, useful products etc
INFORMATICS PRACTICES	Aggregate Functions in SQL – Sorting – Order By Group By – Having Clause – Aggregate Functions and Condition on Group	Single row functions-numeric, string and date functions Working with two tables using equi-join	ASSESSMENT 1	ASSESSMENT 1		<p>Students will learn :</p> <ol style="list-style-type: none"> 1. aggregate functions 2. sorting 3. single row functions

COMPUTER SCIENCE	Meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count),	Revision of DDL and DML commands	ASSESSMENT 1	ASSESSMENT 1		
ACCOUNTANCY		DISSOLUTION OF A PARTNERSHIP FIRM: Meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Entries for realisation of assets, settlement of liabilities, realisation expenses	Realisation account, Partner's loan A/c, capital accounts of partners and cash or bank a/c.	ACCOUNTING FOR SHARE CAPITAL: Share and share capital: nature and types.		Understand the situations under which a partnership firm can be dissolved. develop the understanding of preparation of realisation account and other related accounts State the meaning of share and share capital and differentiate between equity shares and preference shares and different types of share capital
BUSINESS STUDIES		Recruitment process and Selection process	Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule	ASSESSMENT 1	ASSESSMENT 1	State the meaning of recruitment and selection; identify important sources of recruitment; describe the steps in the selection process Appreciate the need of training and development; and explain various on the job and off the job methods of training.

			training, apprenticeship training and internship training			
ECONOMICS		Government budget and the economy: Meaning, objectives and components	Changes in Govt spending taxes and Money supply Classification of Receipts	ASSESSMENT 1	ASSESSMENT 1	Learns about the strategies of the Govt.
ENTREPRENEUR SHIP		Break even Analysis for multiple products or services. Computation of Working Capital	REVISION	ASSESSMENT 1	ASSESSMENT 1	Calculate Break-even point for Multiple products and services. Understand the concept of Inventory Control Compute the working capital of a business.
MARKETING		Entrepreneurial Skills - IV Writing notes TESTS	REVISIONS	ASSESSMENT 1	ASSESSMENT 1	
ENGINEERING GRAPHICS	Open bearing : Disassembly	Unit 4 : Rod joints- Introduction and types of rod joints and	ASSESSMEN T 1 STARTS ON 17TH SEPTEMBER	ASSESSMENT 1	ASSESSMENT 1	Gets clear idea about the construction of disassembling of open bearing from the assembled view

		<p>definitions, Assembly and disassembly of sleeve and cotter joint & Revision for Assessment 1</p>				
PSYCHOLOGY	<p>Types of Therapies Behaviour Therapy •Cognitive Therapy</p>	<ul style="list-style-type: none"> •Humanistic-Ex istential Therapy •Alternative Therapies •Factors contributing to healing in Psychotherapy Ethics in Psychotherapy 3. Rehabilitation of the Mentally Ill 	<p>Revision for Chps. 3-5</p>	<p>ASSESSMENT 1</p>	<p>ASSESSMENT 1</p>	<p>Learners will be able to-</p> <ul style="list-style-type: none"> * elaborate on components of different theoretical approaches. *Appreciate the value of therapy in well being of individuals.

<p>PHYSICAL EDUCATION</p>	<p>Unit 7 Physiology & Injuries in Sport</p> <p>1. Physiological factors determining components of physical fitness 2. Effect of exercise on the Muscular System 3. Effect of exercise on the Cardio-Respiratory System</p> <p>4. Physiological changes due to aging</p>	<p>5. Sports injuries: Classification (Soft Tissue Injuries -Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted)</p>	<p>REVISION</p>	<p>ASSESSMENT 1</p>	<p>ASSESSMENT 1</p>	<p>* Recognize the physiological factors determining the components of physical fitness. * Comprehend the effects of exercise on the Muscular system and cardiorespiratory systems. * Classify sports injuries with its Management.</p>
<p>SOCIOLOGY</p>	<p>Unit 11: Change and Development in Rural society</p> <p>Land reforms, Green Revolution & emerging agrarian society</p>	<p>Unit 11: Change and Development in Rural society</p> <p>Transformation in rural society</p>	<p>Revision of Unit 8,9,11</p>	<p>ASSESSMENT 1</p>	<p>ASSESSMENT 1</p>	<p>To understand the connection between agriculture and culture</p> <p>To closely look at the agrarian structure- caste and class in rural society</p> <p>To learn about the Green revolutions, land reforms (historically to present),</p>

		globalisation , liberalisation and rural society				<p>To engage students in activities related to the textbooks: farmer suicides etc.</p> <p>To understand the themes explored in the subunits like transformations in rural society post independence</p>
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	<p style="text-align: center;">Indian School Wadi Kabir</p> <p style="text-align: center;">Class: XII</p> <p style="text-align: center;">ISWK SHARING KNOWLEDGE (Monthly Plan - October 2023)</p>					
SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes

<p>ENGLISH</p>	<p>POETS AND PANCAKES (FLAMINGO) REPORT WRITING - NEWS PAPER REPORT</p>	<p>THE INTERVIEW (FLAMINGO) JOB APPLICATION</p>	<p>A ROADSIDE STAND (FLAMINGO - POEM) NOTICE - SCHOOL FUNCTIONS</p>	<p>ON THE FACE OF IT (VISTAS) INVITATION PRACTICE</p>	<p>GOING PLACES (FLAMINGO)</p>	<p>STUDENTS WILL BE - ABLE TO WRITE THE VARIOUS WRITING TASKS USING CORRECT FORMAT, LAYOUT AND LANGUAGE. ABLE TO ANSWER SHORT AND LONG ANSWER TYPE QUESTIONS BASED ON LOCAL AND GLOBAL COMPREHENSION OF THE CHAPTERS</p>
<p>MATHEMATIC S</p>	<p>Differential equations using variable separable method, homogeneous equations, Linear Differential Equation method</p>	<p>Introduction, Types of vectors, Addition of vectors, Multiplication of vectors by scalar, Dot and cross product, Scalar triple product.</p>	<p>Scalar triple product of 3 vectors, projection of one vector on another , To analyze vectors if dot product or cross product is zero</p>	<p>Direction cosines and ratios of a line, Equation of line in space in Cartesian and vector form, Angle between 2 lines.</p>	<p>Shortest distance between 2 lines , Equation of plane, Coplanarity of 2 lines,</p>	<p>Differentiate Scalar and Vectors quantities. Represent a vector. Find the magnitude of the vector. Represent the negative of a vector. Find the angle between two vectors in terms of their directions cosines Find the angle between two vectors in terms of their direction ratios Find equation of a line passing through a given point and perpendicular to two given lines</p>
<p>APPLIED MATHEMATIC S</p>	<p>Time series</p>	<p>Numerical applications</p>	<p>Numerical applications Financial Mathematics</p>	<p>Financial Mathematics EMI</p>	<p>Financial mathematics Effective rate, depreciation</p>	<p>Solve practical problems based on statistical data and Interpret the result Explain the concept of EMI Calculate EMI using various methods Understand the concept of Compound Annual Growth Rate interpret cost, residual value and useful life of an asset from the given information</p>

<p>PHYSICS</p>	<p>CHAPTER-10-WAVE OPTICS-Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum.</p>	<p>CHAPTER-11-Dual nature of radiation and matter Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation -particle nature of light.</p>	<p>Matter waves - wave nature of particles, de Broglie relation. Exercises and numerical</p>	<p>CHAPTER-12-Atom - Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.</p>	<p>CHAPTER-13-NUCLEI-Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Mass defect. Binding energy per nucleon. Nuclear reactions. Nuclear fission and nuclear fusion.</p>	<p>Students are able to</p> <ul style="list-style-type: none"> * Explain about the interference and Young's double slit experiment. * Derives an expression for fringe width * Differentiate between coherent and incoherent sources. <p>Illustrate about diffraction through a single slit and derive a formula for the width of central maximum.</p> <ul style="list-style-type: none"> * Define photoelectric effect and obtain photoelectric equation. <p>Draw different graphs on photoelectric current.</p> <p>Explain about Matter waves - wave nature of particles, de Broglie relation.</p> <p>Solve Exercises and numerical.</p> <ul style="list-style-type: none"> ● Answer the questions on the properties of atoms and nuclei. ● Differentiate between different models of atoms and explain about the Hydrogen spectrum.
<p>CHEMISTRY</p>	<p>Unit VIII: d and f Block Elements General introduction, electronic configuration, characteristics of transition metals</p>	<p>General trends in properties of the first-row transition metals – metallic character, ionisation enthalpy, oxidation states, ionic radii, colour. catalytic property, magnetic properties, interstitial</p>	<p>Lanthanoids and Actinoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences.</p>	<p>Unit IX: Coordination Compounds Coordination compounds - Introduction, ligands, Coordination number, colour, magnetic properties and</p>	<p>IUPAC nomenclature of mononuclear coordination compounds. Bonding, VBT, and CFT</p>	<p>Students are able to:</p> <ul style="list-style-type: none"> identify oxidation states of 3d series members appreciate the relative stability of various oxidation states in terms of electrode potential values compare lanthanoids and actinoids with respect to complexation behaviour

		compounds, alloy formation preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$.	- comparison with lanthanoids.	shapes, Werner's theory		<p>write the nomenclature of coordination compounds with cationic, anionic and neutral coordination sphere</p> <p>apply VBT and CFT to explain bonding in octahedral and tetrahedral coordination compounds</p>
BIOLOGY	Ecology Organisms and Populations – population growth	Ecosystems Components energy flow pyramids	Biodiversity and conservation Levels,	patterns importance loss of biodiversity conservation	Revision	<p>To make them share their opinion in population interactions Appreciate the importance of interspecific interactions in biotic community -To evaluate and characterise different levels of Biodiversity -To analyse critically the factors contributing threat to extinction of biodiversity -To enumerate different methods of conservation of biodiversity, in situ and ex situ conservation. Students will develop scientific temperament and inquisitiveness. Students will analyse various methods of conservation of biodiversity Students will get awareness regarding IUCN red list categories Value the ethical concerns regarding conservation" -Understand Basic concept of Ecosystem. Understand different types of food chains, grazing and detritus food chain</p>

						<p>-Describe various biotic components in ecosystem like producers, consumers decomposers and certain abiotic components</p> <p>-appreciate the roles of organisms in different food chains and food web.</p> <p>"Understand ten percent law in energy flow models</p> <p>Evaluate the mechanism of decomposition in ecosystems"</p> <p>Acquire knowledge of different types of ecological pyramids</p>
INFORMATICS PRACTICES	<p>Introduction to Computer Networks</p> <p>Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway</p>	<p>Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.</p>	<p>Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and</p>	<p>Societal Impacts Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism,</p>		<p>Students will be learning the concept of networking.</p> <ol style="list-style-type: none"> 1. The different types of networks 2. Application of different types 3. Distinguish the different types of networks based on the specification 4. Application of different network devices 5. To choose the appropriate device for a given application 6. Difference between static and dynamic webpages 7. The concept of webserver and web browser 8. Different types of web browsers and its settings

			plug-ins, cookies.			
COMPUTER SCIENCE	Joins: cartesian product on two tables, equi-join and natural join	Interface of python with an SQL database: connecting SQL with Python,performing insert, update, delete queries using cursor	Display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications	Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)	Data communication terminologies: concept of communication , components of data communication ,measuring capacity of communication media , IP address, switching techniques (Circuit switching, Packet switching)	Students will learn how to take information from two tables various ways of retrieving data from MySQL through python interface Students will learn the concept of Computer Network, its evolution and data transfer rate
ACCOUNTANC Y	Public subscription of shares - over subscription and under subscription of shares; issue at par and at	Accounting treatment of forfeiture and reissue of shares. Comprehensive problems: Issue,calls in arrear,	Comprehensive problems: Issue,calls in arrear, advance,forfeitu re and reissue.	Disclosure of share capital in the Balance Sheet of a company. Private Placement and Employee	ACCOUNTIN G FOR ISSUE OF DEBENTURE S: Issue of debentures at par, at a premium and at a discount.	Explain the accounting treatment of share capital transactions regarding issue of shares. develop the understanding of accounting treatment of forfeiture Understanding of accounting treatment of forfeiture and re-issue of forfeited shares To solve comprehensive problem

	<p>premium, calls in advance and arrears.</p> <p>Issue of shares for consideration other than cash. Accounting treatment of forfeiture and reissue of shares.</p>	<p>advance, forfeiture and reissue.</p>		<p>Stock Option Plan.</p>	<p>Issue of debentures for consideration other than cash. Issue of debentures with terms of redemption</p>	<p>Describe the presentation of share capital in the balance sheet of the company as per schedule III part I of the Companies Act 2013. Understand the meaning of private placement of shares and Employee Stock Option Plan. Explain the accounting treatment of different categories of transactions related to the issue of debentures.</p>
<p>BUSINESS STUDIES</p>	<p>Concept and importance of Directing Elements of Directing Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives</p>	<p>Leadership - concept, styles - authoritative, democratic and laissez faire Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers Controlling - Concept and importance Relationship between planning and controlling</p>	<p>Steps in process of controlling. Concept, role and objectives of Financial Management. Financial decisions: investment, financing and dividend- Meaning and factors. Financial Planning - concept and importance</p>	<p>Capital Structure – concept and factors affecting capital structure. Fixed and Working Capital - Concept and factors affecting their requirements. Financial Markets: Concept. Money market : Concept</p>	<p>Capital market and its types (primary and secondary). Stock Exchange - Functions and trading procedure. Securities and Exchange Board of India (SEBI) - objectives and functions</p>	<p>Students will be able to: Explain the concept of directing and its importance in business, the meaning of supervision and its importance. ; the meaning of motivation and its importance in business management; Maslow's theory of hierarchy of needs; the financial and non financial incentives through which managers motivate their employees; The steps in the process of controlling; describe financial management; objectives of financial management the meaning and importance of financial planning; Explain the meaning of capital structure; the factors affecting the choice of an appropriate capital structure; meaning of fixed capital and working capital;</p>

						<p>the meaning of Financial Market; the meaning of Money Market and its major Instruments; the nature and types of Capital Market; distinguish between Money Market and Capital Market</p> <p>Explain the meaning and functions of Stock Exchange; the role of SEBI in investor protection.</p>
ECONOMICS	Measures of Government Deficit: Revenue, Fiscal and Fiscal : Meaning	Employment, Growth and Informalisation Growth and Changes Formal and Informal: Problem and Policies	Open Economy: Balance of Payments Account: Meaning and Components Current and Capital account	Balance of Trade Bop, Surplus and Deficit Autonomous and Accommodating items.- Meaning	Exchange rates: Flexible and Fixed Merits and Demerits Managed floating rate	<p>Students will be able to differentiate between current account and capital account</p> <p>Understands between formal and informal sectors</p> <p>Learns about the concepts and the differences</p>
ENTREPRENEURSHIP	Inventory Control and EOQ. Return on Investment (ROI) and Return on Equity (ROE)	Resource Mobilisation: Capital Market: Concept. Primary market: Concept, methods of issue	Angel Investor: Features. Venture Capital: Features, funding.	Funding by Venture Capital	Stages of funding by venture capital	<p>Concept of EOQ.</p> <p>Calculate Return on Investment; Return on Equity and Economic Order Quantity and decision making for investment.</p> <p>Understand the need of finance in Business. Understand the various sources of funds required for a firm.</p> <p>Understand the ways of raising funds in the primary market.</p>

						<p>Understand the ways of raising funds in the primary market. Concept and funding by Angel Investors.</p> <p>Appreciate the Angel Investors and Venture Capitalists as a source of business finance.</p> <p>Characteristics of angel investors and venture capital firms.</p> <p>Understanding of the business development stage financed by VC.</p>
MARKETING	<p>SSS SKILLS</p> <p>CHP 5- EMERGING TRENDS IN MARKETING</p> <ol style="list-style-type: none"> 1. Explain the meaning and characteristics of service 2. Analyze the service sector in India 3. Understand the types of services 4. Analyze the criteria to judge the quality of service 5. Understand the concept of Online marketing 6. Analyze the advantages and disadvantages of online marketing 	<ol style="list-style-type: none"> 7. Understand the concept of Social Media Marketing 8. Differentiate between the Social media platforms 9. Writing Notes 	writing notes	REVISING OF WHOLE PORTION	REVISING OF WHOLE PORTION	<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Identify the importance of services and their role in India's GDP 2. Specify scope Services 3. Identify set of companies that are helped by online marketing 4. Identify platforms used for social media marketing

<p>ENGINEERING GRAPHICS</p>	<p>Gib and cotter joint : Assembly and disassembly</p>	<p>Unit V : Tie Rod and Pipe joints - Introduction and definitions of pipe joints - Assembly of turnbuckle</p>	<p>Turnbuckle - Disassembly</p>	<p>Flanged pipe joint - Assembly</p>	<p>Flanged pipe joint - Definitions</p>	<p>Understands the concept of pipe joint and assembling of flanged pipe joint and turnbuckle from the disassembled views.</p>
<p>PSYCHOLOGY</p>	<p>Chp 6: Social Cognition Introduction Explaining Social Behaviour Social Cognition</p>	<p>Attitude Formation and Change Attitude Formation Attitude Change Attitude-Behaviour Relationship</p>	<p>Nature and Components of Attitudes Prejudice and Discrimination Strategies for Handling Prejudice</p>	<p>Schemas and Stereotypes Impression Formation and Explaining Behaviour of Others through Attributions Impression Formation Attribution of Causality</p>	<p>Behaviour in the Presence of Others Pro-social Behaviour Factors Affecting Pro-social Behaviour</p>	<p>Learners will be able to:- *Enlist the components of Attitudes *Describe the difference between prejudice and discrimination * Discuss the experiments based on Social cognition and Behaviour in group</p>

<p>PHYSICAL EDUCATION</p>	<p>Unit 8 Biomechanics and Sports 1. Newton's Law of Motion & its application in sports 2. Types of Levers and their application in Sports.</p>	<p>3. Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports 4. Friction & Sports 5. Projectile in Sports</p>	<p>Unit 9 Psychology and Sports 1. Personality; its definition & types</p>	<p>2. Motivation, its type & techniques. 3. Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it</p>	<p>4. Meaning, Concept & Types of Aggressions in Sports 5. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, SelfTalk, Goal Setting</p>	<p>* Understand Newton's Law of Motion and its application in sports * Recognize the concept of Equilibrium and its application in sports. * Define Friction and application in sports. * Understand the concept of Projectile in sports. * Classify different types of personality * Recognise the concept of motivation and identify various types of motivation. * Differentiate between different types of aggression in sports. * Explain various psychological attributes in sports.</p>
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<p>SOCIOLOGY</p>	<p>Unit 11: Change and Development in Rural society</p> <p>(complete any sub topic is not covered in the assessment 1 exam)</p> <p>Unit 12: Change and Development in Industrial Society</p> <p>Industrialization to liberalisation</p>	<p>Unit 12: Change and Development in Industrial Society</p> <p>How people find jobs</p> <p>work processes</p>	<p>Unit 12: Change and Development in Industrial Society</p> <p>work process- working conditions, home based work, strikes and unions</p>	<p>Unit 15: Social Movements</p> <p>An introduction and overview of the topic</p> <p>theories and classification of social movements</p>		<p>To understand the nature of industrialization in India</p> <p>To closely look at how people find jobs and carry out their work</p> <p>To learn about the working conditions, home based work, strikes & unions,</p> <p>To engage students in activities related to the textbooks: time slavery in IT industry etc.</p> <p>To understand the themes explored in the subunits like transformations in rural society post independence</p> <p>To successfully answer OTQ's and STQ's on the topic</p>
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Indian School Wadi Kabir

Class: XII

**ISWK SHARING KNOWLEDGE
(Monthly Plan - November 2023)**

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	AUNT JENNIFER'S TIGERS (FLAMINGO - POEM) REPORT WRITING	MEMORIES OF CHILDHOOD (VISTAS) JOB APPLICATION	REVISION	REVISION	REVISION	STUDENTS WILL BE - ABLE TO WRITE THE VARIOUS WRITING TASKS USING CORRECT FORMAT, LAYOUT AND LANGUAGE. ABLE TO ANSWER SHORT AND LONG ANSWER TYPE QUESTIONS BASED ON LOCAL AND GLOBAL COMPREHENSION OF THE CHAPTERS
MATHEMATICS	The problem and mathematical formulation, Applications in daily life. Solutions to problems Conditional probability, Multiplication theorem , Addition theorem,	Independent events , Bayes' theorem, Random variables and its probability distribution. solve problem by Bayes' theorem, probability distribution of different random variables	Revision For Prelim 1	Revision For Prelim 1	Revision For Prelim 1	Understand and use the properties of conditional probability. Solve the problems based on conditional probability. Find the probability of an event when certain conditional probabilities of that event are given. Write probability distribution of random variables

<p>APPLIED MATHEMATICS</p>	<p>Linear programming Terms ,formulate LPP and graph</p>	<p>Statistics statistic and parameter. t- test</p>				<p>Familiarise with terms related to Linear Programming Problem Understand feasible and infeasible solutions Formulate and find optimal feasible solutions. Define Statistics with reference to Sample Explain the relation between Parameter and Statistic Test Null hypothesis and make inferences using t-test statistic for one group / two independent groups</p>
<p>PHYSICS</p>	<p>Exercise questions and numerical.</p>	<p>Electronic devices Energy bands in solids (Qualitative ideas only) conductor, insulator and semiconductor; semiconductor or diode</p>	<p>CHAPTER-14-SEMI CONDUCTOR ELECTRONICS- Intrinsic and extrinsic semiconductors. N and P type semiconductors.se miconductor diode – I-V characteristics in forward and reverse bias, diode as a rectifier; IV characteristics.Exe</p>	<p>REVISION</p>	<p>REVISION</p>	<p>Students are able to:</p> <ul style="list-style-type: none"> * solve the Exercise questions and numerical. *Draw Energy bands in solids *Differentiate between Intrinsic and extrinsic semiconductors. N and P type semiconductors. *Draw I-V characteristics in forward and reverse bias of a

			rcise questions and numerical.			diode. *Illustrate the diode as a rectifier. Solve the revision questions.
CHEMISTRY	Structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).	REVISION	REVISION	REVISION	PRELIM 1	Students are able to: define different types of isomerism in coordination compounds infer the usefulness of coordination compounds to qualitative analysis appraise the involvement of coordination compounds in metallurgy outline the applications of coordination compounds in therapeutics
BIOLOGY	Completion of syllabus both theory & practical	Revision	Revision	Revision	PRELIM I	
INFORMATICS PRACTICES	licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking phishing,	E-waste: hazards and management. Awareness about health concerns	REVISION	REVISION		Students will understand the concept of 1. licensing agreement in terms of software 2. Difference between open source software and open data

	cyber bullying, overview of Indian IT Act.	related to the usage of technology.				3. Various privacy laws to maintain integrity online 4. What is E waste made up of and the waste disposal techniques 5. Gender and disability issues while teaching and using computers 6. Role of new media in society and its issues
COMPUTER SCIENCE	Transmission media: Wired communication media, Wireless media, Network Devices, Network Topologies	Types of Network, Network protocol, Introduction to Web services	REVISION	REVISION		Students will be learning 1. Application of different network devices 2. To choose the appropriate device for a given application 3. The different types of networks 4. Application of different types 5. Distinguish the different types of networks based on the specification
ACCOUNTANCY	Issue of debentures as collateral security.	Interest on debentures Writing off discount / loss on issue of debentures	Revision			understand the concept of collateral security and its presentation in the balance sheet. Develop the skill of calculating interest on debentures and its accounting treatment Develop the understanding and skill of writing of discount / loss on issue of debentures
BUSINESS STUDIES	Concept and importance of consumer protection The Consumer Protection Act, 2019: Meaning of consumer	Role of consumer organisations and Non-Governmental	REVISION	REVISION	REVISION	Students will be able to state the importance of consumer protection; briefly explain legal framework for consumer protection in India;

	Rights and responsibilities of consumers Who can file a complaint? Redressal machinery Remedies available	Organisations (NGOs)				describe consumer rights in India; briefly describe the ways and means of consumer protection; Students will be able to explain the role of consumer organisations and Non - Governmental Organisations. To appreciate the concepts taught to them in consumer protection chapter
ECONOMICS	Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment including Global Warming	Development Experience of India: A comparison with neighbours: India and Pakistan and China	Issues: economic growth, population, sectoral development and other Human Development indicators.	REVISION REHEARSAL EXAMINATION REHEARSAL EXAMINATION		understands the importance of environment and problems faced because of pollution. Understands the importance of Neighbours to know Strengths and Weakness. Understands the ranks of Neighbours in various demographic indicators.
ENTREPRENEURSHIP	REVISION	REVISION	REVISION	REHEARSAL EXAMINATION	REHEARSAL EXAMINATION	
MARKETING	REVISING OF WHOLE PORTION	REVISING OF WHOLE PORTION	REVISING OF WHOLE PORTION	REVISING OF WHOLE PORTION	REVISING OF WHOLE PORTION	

ENGINEERING GRAPHICS	Flanged pipe joint : Disassembly	Revision classes for Rehearsal 1.	Submission of journal and collabcad project	Revision for REHEARSAL 1	REHEARSAL 1 STARTS ON 26TH NOVEMBER	Recalls and revise all the topics for rehearsal 1
PSYCHOLOGY	Chp 7:- Social Influence and Group Processes Introduction Nature and Formation of Groups Type of Groups	Influence of Group on Individual Behaviour Social Loafing Group Polarisation		REVISING OF COMPLETE PORTION	REVISING OF COMPLETE PORTION	
PHYSICAL EDUCATION	Unit 10 Training in Sports 1. Concept of Talent Identification and Talent Development in Sports 2. Introduction to Sports Training Cycle 3. Types & Methods to Develop – Strength, Endurance, and Speed.	4. Types & Methods to Develop – Flexibility and Coordinative Ability. 5. Circuit Training - Introduction & its importance	REVISING OF WHOLE PORTION	REVISING OF WHOLE PORTION	REHEARSAL EXAMINATION	* understand the concept of talent identification and methods used for talent development in sports * Understand different types & methods to develop -strength, endurance, and speed in sports training. * Understand different types & methods to develop – flexibility and coordinative ability. * Understand Circuit training and its importance.

SOCIOLOGY	Unit 15: Social Movements Environmental movements class based movements: workers and peasants	Unit 15: Social Movements & Notes completion Caste based movements tribal movements, women's movement	Revision	Revision	Revision	To understand the features of social movements To closely look at sociology & social movements- theories, types To learn about the ecological, class based, caste based, tribal, women's movements To engage students in activities related to the textbooks: dalit poems etc To understand the themes explored in the subunits like backward caste movements To successfully answer OTQ's and STQ's on the topic
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Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE
(Monthly Plan - December 2023)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	PRELIM 1	PRELIM 1	REVISION	REVISION		
MATHEMATIC S						
APPLIED MATHEMATIC S	PRELIM 1	PRELIM 1	REVISION			
PHYSICS	PRELIM 1	PRELIM 1	REVISION	REVISION		
CHEMISTRY	PRELIM 1	PRELIM 1	REVISION			

BIOLOGY	PRELIM 1	PRELIM 1	REVISION	REVISION	REVISION	
INFORMATICS PRACTICES						
COMPUTER SCIENCE						
ACCOUNTANCY						
BUSINESS STUDIES						
ECONOMICS						
ENTREPRENEURSHIP	REHEARSAL EXAMINATION	REHEARSAL EXAMINATION				

MARKETING	REHEARSAL 1	REHEARSAL 1	WINTER BREAK	WINTER BREAK	WINTER BREAK	
ENGINEERING GRAPHICS	REHEARSAL 1	REHEARSAL 1	WINTER BREAK	WINTER BREAK	WINTER BREAK	Recalls and revise all the topics for rehearsal 1
PSYCHOLOGY	REHEARSAL 1	REHEARSAL 1	WINTER BREAK	WINTER BREAK	WINTER BREAK	Thorough Revision for Rehearsal 1
PHYSICAL EDUCATION	PRELIM 1	PRELIM 1	REVISION			
SOCIOLOGY	Prelim 1	Prelim 1	Revision	winter break	winter break	