



Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE

(Monthly Plan - March 2026)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH		Introduction and Outline Of Syllabus Lit. C.C. Lost Spring	Lit. C.C. Lost Spring - Cntd Writing-Notice	Lit C.C. : My Mother At Sixty –Six (Poem	Lit C.C - The Last Lesson	Students are able to answer questions based on local and global comprehension and also analyse the lesson critically. They are able to write a notice using appropriate language and layout.
MATHEMATICS		Continuity and Differentiability: Continuity of a function	Continuity and Differentiability: Chain rule, Implicit functions, Inverse trigonometric functions. Derivatives using logarithmic rules.	Continuity and Differentiability: Derivatives of parametric functions, second derivatives		Understand Continuity of Functions Concept of Differentiability Derivative Rules & Techniques Derivatives of various functions.

PHYSICS		CH-1 Electric charges and fields. Knowledge of different types of charges, coulomb's law and its application to find the force between point charges	Electric field, electric field due to a point charge. Electric field lines, electric dipole,	Electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem	Term break	Students are able to state Coulomb's law and apply it for different situations. Defines electric field and illustrates electric field lines. Defines electric dipole and applies it to find the torque exerted due to an electric dipole.
CHEMISTRY		Unit VI: Haloalkanes and Haloarenes. Haloalkanes: Nomenclature, nature of C–X bond, Physical and prop.	Optical rotation mechanism of substitution reactions. Haloarenes: Nature of C–X bond	Substitution reactions of haloarenes. Uses and environmental effects of - dichloromethane, Trichloromethane, tetrachloromethane, iodoform, freons, DDT.	Term break	Students are able to: - recall the IUPAC naming of haloalkanes and haloarenes significance of studying these compounds. - analyse the nucleophilic substitution reaction in terms of the stereochemistry of the product(s) - describe the ortho and para directing nature of

						halogens in benzene towards electrophilic substitution
BIOLOGY		UNIT:VI Reproduction Sexual reproduction in flowering plants Pre-fertilisation - structure & Events	UNIT:VI Reproduction, Sexual reproduction in flowering plants Double Fertilisation & Post fertilization : structure and events & Apomixis & Polyembryo, significance of seed dispersal and fruit formation.	UNIT:VI Reproduction Human reproduction Male & Female Reproductive System & Gametogenesis & Menstrual Cycle, Fertilisation & implantation & Pregnancy,Embryonic development,parturitio n & lactation	Term break	Students will be able to: - Identify the parts of a flower and distinguish between the functions of androecium (male) and gynoecium (female) reproductive organs. - Explain the mechanisms of pollination and the process of double fertilization unique to angiosperms. - Seed & Fruit Formation: Describe the transformation of ovules into seeds and ovaries into fruits following fertilization. - Identify the structures of male and female reproductive systems and their roles in producing gametes. - Explain how hormones control the menstrual cycle,

						spermatogenesis, and oogenesis.
INFORMATICS PRACTICES		Introduction to Pandas, features, Series and Data Frames.	Creation of Series from – ndarray, list, dictionary, scalar value	Attributes of series, Mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Comparision of series	Term break	Installation of pandas Concept of Series and Dataframe Creation of series Learning different attributes of Series and applying it using various examples 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, Introduction to functions, Exception Handling	Builtin Functions, Functions defined in modules & User defined functions	Term Break	To understand the application programs using the python 1. Simple sequence 2. Selection Statements 3. Iterative Statements 4. Sequences : Mutable and Immutable Sequences To understand the difference between builtin function and user defined functions with examples
ACCOUNTANCY		Fundamentals of Partnership Accounting: Introduction, Interest on Capital,	Fixed v/s fluctuating capital account-Capital A/c & Current A/c.Profit/Loss	Appropriation A/c. Past Adjustment & Guarantee of profit Nature & valuation of Goodwill.		❖ Partnership, Partnership firm and partnership deed. Characteristic features of partnership and the contents of partnership deed.

		Interest on Drawings, Remuneration for partners. Charges & Appropriation of profit.	Appropriation A/c. 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 . P/L Appropriation A/c.			❖ Calculation of IOC,IOD,remuneration of partners. ❖ Preparation of P/L A/c, Appropriation A/c. ❖ Develop the understanding and skill of making past adjustments. ❖ Meaning, nature and factors affecting goodwill. Meaning, nature and factors affecting goodwill develop the understanding and skill of valuation of goodwill using different methods. ❖ Valuation of goodwill using different methods.
BUSINESS STUDIES		Nature and Significance of Management - concept, objectives and importance. Management as ,Science	Coordination- concept and importance Notes	Principles of Management - concept and significance	Taylor's Scientific management - principles and techniques	● Introduce the concept of management ● Engage the class in a discussion of effectiveness and efficiency ● Outline the features of management

		Art and Profession Levels of Management. Management functions-planning, organizing, staffing, directing and controlling				● Outline the features of management ● Highlight the importance of management ● Reiterate the features and criterias for management as Art, Science and Profession ● Highlight the concept of Coordination ● Illustrate the features of Coordination ● Outline the importance of Coordination ● Introduce the concept ● Reiterate the features of PoM ● Highlight the importance of PoM
ECONOMICS	HOLIDAYS	Money & Banking - Introduction, Functions of Money and Supply of Money.	Functions of Central Bank , Commercial Banks, Credit Creation.	Indian economy on the eve of Independence: Features, Agricultural sector, Industrial sector,	Foreign Rule, Demographic Indicators; British Rule boon or bane...	*Inquires money, types of money and functions of banks. *Describe the forms, function and characteristics of money. *Discuss the role and importance of central banks and commercial banks for government, consumer and producers.

						*Emphasize economic decisions by highlighting the role of government. *Discuss critical issues of the Indian economy since independence.
ENTREPRENEURS HIP	Holidays	Entrepreneurial Opportunities - Concept of Entrepreneurship - Business opportunity and its elements - Concept of Sensing Entrepreneurial Opportunities - Factors involved in sensing opportunities	- Environment Scanning - Need for environment scanning and its importance - SWOT analysis framework and analysis of the environment - business environment and PESTEL model - Concept of problem identification	- Spotting Trends - Creativity and Innovation	- Selecting the right opportunity -Worksheet Discussions	The learner would be able to: - Understand the concept and elements of business opportunity - Understand the factors involved in sensing opportunities - Understand the concept of environment scanning - Enlist the various factors affecting business environment - Understand the meaning of idea fields - Enlist the various sources of idea fields - Understand the technique of transformation of ideas into opportunities - Understand what is trend spotting - Elaborate on the creative and innovative processes

MARKETING		Chp 1 Product 1. Explain meaning of Product in marketing 2. Explain the components of Product 3. Understand the characteristics and importance of a product	4. Differentiate between the product levels 5. Understand the factors influencing the product mix 6. Analyze Product terms and decisions 7. Classify the products 8. Analyze the marketing strategies of the classified products 9. Evaluate the features of the classified products 10. Explain various Types of industrial goods and their features	11. Stages of Product Life cycles and related marketing strategies 12. Explain the role, importance and functions of Packaging 13. Types of packages 14. Comprehend the concept and role of labelling 15. Classify the labels 16. Functions of labelling	Revision and WORKsheet Discussion	• Understand that a product is anything offered to satisfy customer needs and wants. • Identify the core, actual, and augmented elements that make up a product. • Recognize the features of a product and its role in fulfilling customer needs and generating revenue. • Differentiate between core, actual, and augmented product levels. • Understand how customer needs, competition, and company objectives shape the product mix. • Analyze key product-related decisions like branding, quality, and features. • Classify products as consumer or industrial goods based on usage. • Recognize labelling's role in identification, information, promotion, and legal compliance. • Understand the introduction, growth, maturity, and decline stages
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						and associated marketing tactics.
ENGINEERING GRAPHICS		Isometric Projection :Introduction of Isometric projection,Explanation of construction of title block,Isometric projection of prisms,construction of isometric scale.	Isometric Projection : Single solids with axis perpendicular to HP	Isometric projection : single solids with axis parallel to both HP and VP	TERM BREAK	Understand the construction of title block with projection symbol,construction of isometric scale and single solids (All types of prisms)
PSYCHOLOGY	Classes started on 11 th March	1. Introduction, Syllabus and Chapter Overview 2. Individual Differences in	"Theories of Intelligence: Psychometric Theories of Intelligence, Information Processing Theories,"	Eid break	Theory of Multiple Intelligences, Triarchic Theory of Intelligence, Planning, Attention-Arousal and Simultaneous Successive Model of Intelligence	# 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

		Human Functioning 3. Assessment of Psychological Attributes 4. Intelligence				appreciate the concept of Multiple Intelligences # To demonstrate working Of PASS model
PHYSICAL EDUCATION		Revision of Training in sports topics covered in Class XI,	Management of Sporting Events: Sports event management involves planning, organizing, staffing, directing, and controlling, along with committee roles and fixture procedures for knockout and league tournaments.	Intramural & Extramural tournaments – Meaning, Objectives & Its Significance. Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)	Writing Notes,	*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 intramural and extramural sports events *Design and prepare different types of community
SOCIOLOGY		Introduction to Grade 12	Demographic Indicators	Age Structure and Composition, Population	Sex Ratio, Literacy Rates, Urban- Rural	Students will:

		Chapter 1: Demographic Structure of Indian Society	and concepts, Size and Growth of Population of India	pyramids, Demographic Dividend	differences in population growth, Population policy of India	• Develop conceptual clarity of demographic structure. • Interpret statistical data critically. • Compare sociological theories of population growth. • Apply theoretical knowledge to Indian context.
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Class: XII

ISWK SHARING KNOWLEDGE

(Monthly Plan - April 2026)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH		Lit: S.R.- The ThirdLevel Reading Comprehension Formal Invitation & Reply	Formal Invitation & Reply Poem – Keeping Quiet	Poem – Keeping Quiet Contd Writing: Letter To Editor	LIT.S.R.: Tiger King Reading Comprehension	Students are able to answer questions based on local and global comprehension and also analyse prose lessons and poems critically. They are able to write a formal letter and invitation using appropriate language and layout.

MATHEMATICS		Application of Derivatives: Rate of change- real life related problems	Application of Derivatives: Increasing /decreasing functions	Application of Derivatives: Local Maxima, Minima, case study questions. Matrices: Types of matrices	Matrices: Types of matrices and operations on matrices Determinants: Minors, cofactors, adjoint, and inverse. Case study/source based questions	Identifies the rate of change of one variable w.r.t other. Apply the concept to analyse the function- increasing /decreasing, maximum value, minimum value. Apply the concepts of derivatives to solve case study based/source based questions on derivatives. Identify matrices and operations on matrices
PHYSICS		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.	CHAPTER-2 – Electrostatic potential and capacitance. Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.	Dielectrics and electric polarization. capacitors and capacitance, combination of capacitors in series and in parallel. Capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor(no derivation.Only formulae.). Worksheet and exercises.	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. series and parallel combinations of resistors; temperature dependence of resistance.	Students are able to ● apply Gauss's theorem in different situations. ● derive formula for electric potential due to a point charge and electric dipole. ● Draw equipotential surfaces. ● explain and identify dielectrics and dielectric polarization and the terms associated with it. ● derive formula for capacitance.

						state and derive Ohm's law
CHEMISTRY		Unit VII: Alcohols, Phenols and Ethers. Alcohols: Nomenclature, methods of preparation, Identification of primary, secondary and tertiary alcohols, mechanism of dehydration. Physical and chemical properties.	Identification of primary, secondary and tertiary alcohols, mechanism of dehydration. Phenols: Nomenclature, methods of preparation.	Physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.	Unit I: Solutions Solid solutions, Henry's law, Raoult's law, Colligative properties - relative lowering of vapour pressure	Students are able to - recall the IUPAC naming of alcohols, phenols and ethers - compare the bond lengths and bond angles amongst alcohols, phenols and ethers - know the method of preparation of phenols from chlorobenzene, benzene and cumene. - visualise the 3D structure of alcohols, phenols and ethers with the help of models and softwares.

BIOLOGY		UNIT VI Human reproduction Male & Female Reproductive System & Gametogenesis & Menstrual Cycle, Fertilisation & implantation & Pregnancy, Embryonic development, parturition & lactation	UNIT:VI Human Reproduction Reproductive health Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT	Unit-VII Genetics and Evolution Principles of Inheritance and Variation Mendelian inheritance; deviations from Mendelism - incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness;	Unit-VII Genetics and Evolution Principles of Inheritance and Variation Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.	Students are able to: • Describe the hormonal regulation and cellular stages of gametogenesis, the menstrual cycle, and fertilization. • Outline the physiological milestones from embryonic development through to parturition and lactation. • Explain Mendelian principles, chromosomal theory, and the genetic basis of sex determination and disorders. • Describe DNA structure, replication, and the expression of genes through transcription and translation. • Analyze the evidence for evolution and the mechanisms of natural
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						selection and genetic variation.
INFORMATICS PRACTICES		Data Frames: creation - from dictionary of Series, list of dictionaries, Dictionary of list , Dictionary of Dictionary	Data Frames: Attributes of a dataframe	Slicing, ,loc() and .iloc() Selecting and accessing , modifying records from dataframe	Adding / modifying a row in a dataframe, Selecting a column from a dataframe	Creation of dataframe from 1. list 2. dictionary 3. Series Creating dataframe and applying all attributes on the created dataframe Creating a dataframe and 1. use loc and iloc to access rows and columns 2. Updating records Creating a dataframe and 1. update the records 2. Deleting a row 3. Deleting a column
COMPUTER SCIENCE		Creating user defined functions, arguments and parameters, default parameters, positional parameters, key word 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	To create their own functions and learn to use various types of arguments as per the requirement. To learn different types of functions and their accessibility within the program i.e. private or public access. Students will be able to know different types of file to open and perform various operations on them.

		, variable length arguments				They will learn how to open text files in different modes and how to perform various operations on the same.
ACCOUNTANCY		Reconstitution of partnership Firm: Change in profit-sharing ratio.	Admission of a partner	Admission of a partner-comprehensive sums with capital adjustments	Retirement & death of a partner-Revaluation of assets/liabilities, reserves, goodwill. Retirement & death of a partner-Goodwill, reserves, revaluation and capital A/c.Comprehensive problems with capital adjustment and balance sheet.	❖ Meaning of sacrificing ratio, gaining ratio and the change in profit sharing ratio among existing partners. Entries for goodwill and reserves. ❖ The effect of change in profit sharing ratio on admission of a new partner. Treatment of goodwill, Revaluation of assets and reassessment of liabilities, treatment of reserves, accumulated profits and losses. ❖ Preparation of Revaluation A/c and entries.Preparation of partners capital A/c and Balance sheet. ❖ Meaning and effect of retirement/death of a partner on change in profit sharing ratio.

BUSINESS STUDIES	Principles of Management - concept and significance .Fayol's principles of management	Business Environment- concept and importance Dimensions of Business Environment - Economic, Social, Technological, Political and Legal	Demonetization - concept and features Notes Planning: Concept, importance and limitation	Planning process Single use and Standing Plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme Organising: Concept and importance		● Introduce the concept of principles of management.Highlight the significance of management principles ● Highlight the principles and techniques of 'Scientific Management'. ● Reiterate the contributions of Fayol and Taylor. ● Familiarize with the concept of Business environment and its features ● Highlight the importance of Business ● Illustrate the process of planning ● Highlight the types of plan
ECONOMICS	Demographic profile,Occupational Structure,	Indian economy (1950-1990):	National Income and Related Aggregates: Basic Concepts-	Product method Income Method Precautions and Numericals	National Income and Related Aggregates: (Conti....) GDP and Welfare	*Evaluate five-year plan and the role of NITI Ayog in planning, allocation of funds to various sectors like agriculture,

	Infrastructure and Conclusion	Types of Economic System, Planning - Goals Development in Agriculture, Industry, Trade	Methods of Measuring National income:		Numericals and Precautions.	industry, services for the specific cases such as removal of poverty and unemployment. *Communicate economic information and ideas related to National income, Human development index and sustainable development. *Discuss the three methods of measuring the National Income *Explain gross domestic product (GDP) can be used to measure economic growth *Describe the limitations of using GDP as an indicator of development.
ENTREPRENEURSHIP		Entrepreneurial Planning - Forms of business organization - Sole Proprietorship - Features - Legal formalities in Sole proprietorship	Consequences for non-registration of a partnership firm - Drafting of partnership deed - Registration procedure . Joint Stock Company - Characteristics of a Company Why	Business Plan - Importance of the business plan - Format - Introduction to Components. - Introductory profile /general introduction - Description of venture/business venture - Production Plan - situations	Manpower planning - Marketing plan - Steps in preparing the marketing plan	The learner would be able to: Enlist the type of economic activities Understand the forms of business organization Understand the meaning of business plan Understand the format of business plan Understand the organizational plan Understand the production plan

		Partnership - Concept, characteristics	private company is more desirable			Understand the human resources plan Understand the operational plan Understand the financial plan Understand the marketing plan Enlist the various formalities required for starting a business.
MARKETING		GREEN SKILLS 1. Identify the role and importance of green jobs in different sectors 2. Comprehend the role of the government initiatives and policies for preservation of the green economy Writing Notes	Communication Skills 1. Importance of active listening at workplace 2. Steps to active listening 3. Interview Skills 4. Demonstration of writing skills 5. Grammar Writing Notes	Price Decision 1. Explain the meaning and definition of pricing 2. Understand the objectives of pricing 1. Evaluate the importance of pricing 2. Analyze the factors affecting pricing 3. 1. Types of pricing (A) Demand based pricing - Types - Merits - Demerits (B) Cost Oriented Pricing - Types	(C) Competition oriented pricing - Methods (D) Value Based Pricing Comprehend the major pricing methods - Competitive Pricing Penetration Pricing - One Price versus Variable Pricing - Market Skimming Pricing - Discrimination or Dual Pricing	● Define pricing and explain its meaning in marketing. ● Understand the objectives and importance of pricing decisions. ● Identify and analyze the factors that influence pricing. ● Differentiate between types of pricing: demand-based, cost-oriented, competition-oriented, and value-based. ● Evaluate key pricing strategies, including

						competitive pricing, penetration pricing, market skimming, one-price vs. variable pricing, and discrimination/dual pricing. •
ENGINEERING GRAPHICS		Isometric projection of single solids : Isometric projection of pyramids- Upright pyramids	Isometric projection of single solids: Isometric projection of inverted pyramids	Isometric projection of single solids: Isometric projection of cylinder and cone	Isometric projection of sphere and hemisphere	Recognise different types of single solids, especially pyramids, sphere, cone, cylinder & hemisphere.
PSYCHOLOGY	Individual Differences in Intelligence Culture and Intelligence Emotional Intelligence	9. Special Abilities: Aptitude: Nature and Measurement 10. Creativity	Introduce chp 3. Lesson Overview	Chp 3. Meeting Life Challenges Introduction Nature, Types and Sources of Stress Effects of Stress on Psychological Functioning and	• Stress and Health • General Adaptation Syndrome • Stress and Immune System • Lifestyle	# To learn how psychologists assess intelligence to identify mentally challenged and gifted individuals # To relate to the cultural differences in understanding Intelligence # To understand and implement Emotional

				Health		Intelligence as an essential competency # To understand the meaning of stress, its effects, and sources
PHYSICAL EDUCATION	Children & Women in Sports Exercise guidelines of WHO for different age groups. Common postural deformities- knock knees, flat foot, round shoulders, and their respective corrective measures.	Common postural deformities- Lordosis, Kyphosis, Scoliosis, and bow legs and their respective corrective measures.	Women's participation in Sports : – Physical, Psychological, and social benefits.	Special consideration (menarche and menstrual dysfunction)	Female athlete triad (osteoporosis, amenorrhea, eating disorders).	• Differentiate exercise guidelines for different stages of growth and development. • Classify common postural deformities and identify corrective measures. • Recognize the role and importance of sports participation of women in India. • Identify special considerations related to menarche and menstrual dysfunction. • Express female athlete triad according to eating disorders

PAT	UNIT 1: Introduction to Physical Education and Sports Sector; Components of Physical Education	Scope of Physical Education and Importance of Sports in education	Role of Govt and Sports Organizations; Sports Industry	Career Opportunities in Physical Education; Ethical Values and Sportsmanship	UNIT 2: Meaning and Types of Assessment. Factors Influencing Assessment	children will Understand physical education concepts, sports importance, organizations, careers, ethics, and assessment types with influencing factors.
SOCIOLOGY	Chapter 2: Social Institutions ~ Continuity and Change introduction -Caste as an institution	Chapter 2 on Social Institutions continued- Tribe as an institution	Chapter 2 on Social Institutions- Family, Marriage & Kinship	Chapter 3: Patterns of Social Inequality & Exclusion Introduction	Chapter 3 continues: Caste, Tribe, Women and the Disabled	In Chap 2 Students will: • Develop conceptual clarity of social institutions in India (caste, tribe & family) • Apply theoretical & historical knowledge of these institutions to Indian context. In Chap 3: Define key concepts such as social inequality, exclusion, caste, class, gender, ethnicity, minority,

						discrimination, prejudice, and marginalization. Distinguish between social inequality and social exclusion.
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Class: XII

ISWK SHARING KNOWLEDGE

(Monthly Plan - May 2026)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	Lit S.R- The Enemy. Notice Writing (Lost & Found)	Lit S.R- The Enemy- Cntd Practice For ASL (Speaking) Lit: Deep Water	Project discussion REVISION FOR UNIT TEST	UNIT TEST	SUMMER BREAK BEGINS	Students are able to answer questions based on local and global comprehension and also analyse prose lessons critically.
MATHEMATICS	Determinants: Solving equations, word problems	Relations and Functions: Equivalence relation-	Unit Test Relations and functions: One to one and onto functions	Unit Test Relations and Functions contd.		Identifies types of relations and functions. Understands invertible functions. Analyse the relations and functions based

						on domain and range.
PHYSICS	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	CHAPTER 4 – Moving charges and magnetism, Concept of magnetic field, Oersted's experiment. Biot-Savart law.	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. Force on a current-carrying conductor in a uniform magnetic field.	Force between two parallel current-carrying conductors- definition of ampere. Torque experienced by a current loop in a uniform magnetic field. Current loop as a magnetic dipole and its magnetic dipole moment	Exercises and worksheet.	Students are able to Derive expressions for the combination of emf and internal resistance of cells. Illustrate Kirchhoff's law and applies it to various situations. State and derive Biot -Savart law. State and derive Ampere's circuital law and its applications to infinitely long straight wire. Explain and derive Force between two

						parallel current-carrying conductors-
CHEMISTRY	osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.	Unit II: 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	Specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea)	Batteries, Fuel cells, Corrosion	Exercises and worksheet	Students are able to • understand the terms osmosis, isotonic solutions, hypertonic solutions and hypotonic solutions • explain Reverse Osmosis and appreciate its application • distinguish between Electrolytic cells and Galvanic cells • calculate Equilibrium

						constant from Nernst Equation and Gibbs Energy for an Electrochemical Cell describe the construction of some primary and secondary batteries and fuel cells
BIOLOGY	Unit-VII Genetics and Evolution Molecular Basis of Inheritance Search for genetic material and DNA as genetic material; Structure of DNA and RNA. DNA packaging; DNA replication; Central Dogma; transcription, genetic code.	Unit-VII Genetics and Evolution Molecular Basis of Inheritance Translation; gene expression and regulation - lac operon.	Unit-VII Genetics and Evolution Molecular Basis of Inheritance Genome, Human and rice genome projects; DNA fingerprinting. Unit VII Genetics and Evolution Evolution Origin of life; biological evolution and evidences for biological evolution (paleontology,	Unit VII Genetics and Evolution Evolution Mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy- Weinberg's principle; adaptive	Textual exercises	Students will be able to: Identify the biochemical properties of DNA and RNA and explain the experiments that proved DNA is the genetic material.

			comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution;	radiation; human evolution.		• Describe the mechanisms of replication, transcription, and translation in both prokaryotes and eukaryotes. • Explain the lac operon model for gene regulation and the significance of the Human Genome Project and DNA fingerprinting .
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INFORMATICS PRACTICES		display; iteration; selection of rows and columns on DataFrame	Operations on rows and columns: add, select, delete, rename;	Head and Tail functions; Indexing using Labels Series and DataFrame application and manipulations	Summer break	To comprehend the concept of slicing in dataframe and selecting rows and columns To comprehend the ideas of 1. adding , deleting a column 2. renaming a column To comprehend the ideas of 1. boolean indexing 2. head and tail functions
COMPUTER SCIENCE	Text file opening using with clause, writing/appending 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	More on Binary files More programs on Binary files	summer break	To learn about adding more content into text file and reading the same after that and perform different methods on it. To learn about Text file and Binary File operations using Python program. To learn about the opening, closing of a file. To read and

						write records in to a file To understand the logic of text and binary files using various programs
ACCOUNTANCY	Retirement & death of a partner - Comprehensive problems	Deceased partner's share of profit till the date of death. Treatment of Goodwill, revaluation and reserves. Deceased partner's capital account and his executor's account.	Comprehensive sums on death of a partner. Dissolution of partnership firm:	Dissolution of partnership firm: Realization account, Partner's loan A/c, capital accounts of partners and cash or bank a/c.	SUMMER VACATION	❖ Treatment of the amount due to the retiring partner along with loan A/c. Develop the skill of calculation of deceased partner's share till the time of his death. ❖ Prepare Deceased partner's capital and executor's account. Deceased partner's capital and executor's account, Exec

						utor'sloan A/c. ❖ Meaning of dissolution of partnership and partnership firm, types of dissolution of a firm.Underst and the situations under which a partnership firm can be dissolved. Ledger A/cs and postings for realisation of assets, settlement of liabilities, realisation expenses. ❖ Develop the understandin g of preparation of realisation
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						account and other related accounts.
BUSINESS STUDIES	Formal and informal organization - concept-Features Delegation: concept, elements and importance	Decentralization: concept and importance Staffing: Concept and importance of staffing Staffing as a part of Human Resource Management concept Staffing process	Recruitment process Selection process Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training	Directing: Concept and importance and Project Discussion Elements of Directing. Motivation - concept, Maslow's hierarchy of needs	SUMMER BREAK	● Highlight the advantages and disadvantages of Formal Organization ● Outline the features, advantages and disadvantages of informal Organization ● Discuss the concept of Delegation and ● Decentralization and its importance ● Explain the importance

						of staffing and as part of Human Resource Management ● Explain the concept of Directing and its importance
ECONOMICS	Economic Reforms since-1991: Need for economic reforms, its features Liberalisation	Economic Reforms since-1991: (Conti...)Globalisati onMeaning and Objective	Economic Reforms since-1991: (Conti...) Outsourcing, WTO Privatisation- An appraisal of LPG Policies.	Human Capital Formation Meaning , Role of HCF in Eco dev	HOLIDAYS	Discuss the need and main features of liberalization, globalization and privatization. *Define and explain a few important terms and concepts associated with balance of payments in the Indian context.

						*Discuss the role of multinational companies(MNCs) and the costs and benefits to their host and home countries and the role of government in regulating the economic activities in an economy.
ENTREPRENEURSHIP	- Assessment of risk - Appendix Worksheet Discussions	Business Arithmetic - Unit of Sale, - Unit Cost for multiple products or services	Break even Analysis for multiple products or services	Computation of Working Capital. Inventory Control and EOQ	SUMMER BREAK	The learner will be able to: Understand the concept of unit price Calculate Break even point for Multiple products Understand the meaning of inventory control and

						Economic Order Quantity Explain the concept of working capital Calculate Return on Investment Explain the concept of Return on Equity
MARKETING	PRICE DECISION Premium Pricing - Leader Pricing - Psychological Pricing Price Lining Resale Price Maintenance Writing Notes	Everyday low pricing Team pricing 2. Writing Notes PLACE AND DISTRIBUTION 1. Explain meaning and importance of place 2. Comprehend the functions performed by channels of distribution	3. Classify the types of distribution channels 4. Understand the marketing intermediaries involved in distribution channels Elucidate the functions performed by the intermediaries (A) Wholesaler - Functions (B) Retailer - Functions 2. Differentiate between the	- Factors Pertaining to the Producer or Company - Other Factors PROJECT DISCUSSION	SUMMER BREAK	Students will be able to: Explain the concept of price decision and describe different pricing strategies such as premium pricing, leader pricing, psychological pricing, price lining, everyday low pricing, and resale price

			wholesaler and retailer 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			maintenance. • Understand and apply various pricing approaches like team pricing and prepare structured notes on pricing concepts. • Explain the meaning and importance of place (distribution) in marketing and the role of distribution channels. • Classify the different types of distribution channels and identify the
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						marketing intermediaries involved. • Differentiate between wholesalers and retailers and analyze the factors affecting the selection of distribution channels, including product, market, middlemen, and company-related factors.
ENGINEERING GRAPHICS	Isometric projection of combination of solids : Combination of solids in vertical and horizontal positions	Unit 2 : Machine Drawing - Introduction and screw threads and its definitions.	Types of screw threads: BSW thread, Metric thread internal and Metric thread external	Types of screw threads : Knuckle thread and square thread. Types of bolts & nuts.	SUMMER BREAK	Recognises how to draw BSW thread and Metric thread internal and external using the standard dimensions.

PSYCHOLOGY	Coping with Stress • Stress Management Techniques 5. Promoting Positive Health and Well-being • Life Skills • Positive Health	Chp 2: Self & Personality Cognitive aspects of Self UT-I	Approaches to Personality, Type/ Trait/ Psychodynamic Explanation of Psychological testing and scoring methods Tests on: Intelligence Emotional Intelligence	Post Freudian Psychologists Personality Assessment methods	Summer Break	*Learners will be able to understand different model explaining about Stress. *They can appreciate various methods to overcome stress
PHYSICAL EDUCATION	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.	Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta - vajarasana Paschimottanasana, Ardha - Mastendrasana,	Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottan, UttanMandukasaa, Bhujangasana etc, Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakransana,	Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasana, Urdhwahastootan sa na, Ardha Chakrasana, Ushtrasana, Vakrasana, Sarala Matsyendrasana, Bhujangasana, Gomukhasana,	Summer Break	*To make students Understand about the main life style diseases - Obesity, Hypertension, Diabetes, Back Pain and Asthma. *To teach about different Asanas in detail which can help as a preventive Measures for those Lifestyle Diseases. *To make students Understand about

		Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.	Uttanpadasana,Ar dha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasaa, Vakrasana, Bhujangasana, Makarasana, Shavasana,Nadish odhanapranayam, Sitlipranaym.	Bhadrasana, Makarasana, Nadi Shodhana pranayama.		the main life style diseases - Obesity, Hypertension, Diabetes, Back Pain and Asthma. *To learn about different Asanas in detail which can help as a preventive Measures for those Lifestyle Diseases.
PAT	Factors influencing Assessment	Assessment Tools (checklist & Rubrics) Types of Evaluation	Qualitative Assessment Qualitative Assessment	Fitness Tests UNIT 3: Emergency Response & Emergency Management	First Aid & CPR Sports Injuries and First Aid (RICE Method)	children will Understand assessment tools, evaluation types, qualitative and quantitative methods, fitness tests, and apply emergency response, first aid, CPR, and injury management techniques.
SOCIOLOGY	Chapter 3: Completion	Chapter 4 Challenges to	Chapter 4 Challenges to	Chapter 5: Structural	Chapter 5 Structural Change continues	Through chap 3 students will: Analyze how caste continues to

	Chapter 4: Introduction to Challenges to Cultural Diversity	Cultural Diversity continues Revision for Unit Test Exam	Cultural Diversity continues Project Details	Change Introduction		structure inequality despite constitutional safeguards. Examine forms of exclusion faced by Dalits, Adivasis, women, and persons with disabilities. Through Chap 4 students will: Analyze how caste, religion, language, and region contribute to exclusion or conflict. Interpret contemporary issues such as communal riots, linguistic tensions, or gender marginalization.’
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						Through Chap 5 students will: Explain the meaning and dimensions of structural change. Identify factors that drive change in Indian society. Recognize the differences between gradual and rapid social change. Analyze the effects of industrialization, urbanization, and globalization on social institutions.
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Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE

(Monthly Plan - July 2026)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH			Lit-The Rattrap Writing- Article Writing	Lit- A thing of beauty Writing- Informal Invite & Reply	Lit-Letter to the Editor (Job Application)	Students are able to answer questions based on local and global comprehension and also analyse the poem critically. They are able to write an article and various types of informal invites and replies using appropriate language and layout.
MATHEMATICS			Inverse Trigonometry:	Integrals: To know Integration	Integrals	Children Introduction to the concept.

			Principal value branch, formula /identities related on inverse trigonometry. To apply the concepts in proving/solving related problems.	as an inverse process of differentiation, Methods of Integration, Integration of special functions. Integration by substitution method	Integration using trigonometric identities and Particular functions Methods of Integration, Integration of special functions, ILATE rule, Method of Partial fractions, By-Parts.	To know Integration as an inverse process of differentiation, Methods of Integration, Integration of special functions. Integration by substitution method. Methods of Integration, Integration of special functions, ILATE rule, Method of Partial fractions, By-Parts.
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PHYSICS			CH-4-Moving charges and magnetism. Moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter. CH-5-MAGNETISM AND MATTER-.Bar magnet, bar magnet as an equivalent solenoid(qualitative treatment only) Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis(qualitative treatment only).	Torque on a magnetic dipole (bar magnet) in a uniform magnetic field(qualitative treatment only); magnetic field lines.Earth's magnetic field and magnetic elements. Para-, dia- and ferro - magnetic substances, with examples.	Chapter-6- Electromagnetic induction; Faraday's laws, Induced emf and current; Lenz's Law. Self and mutual induction.	Students are able to Explain the principle working theory and use of moving coil galvanometer. Understands how to convert Galvanometer into ammeter and voltmeter. Students are able to Understanding the Bar Magnet.Magnetic Dipole Moment.Field Lines: line.Bar Magnet as an Equivalent Solenoid.Define MagneticFlux:Understand and calculate magnetic
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						flux Understand Faraday's First Law: Apply Faraday's Second Law: Calculate the magnitude of the induced EMF, .Identify Causes of Induction: Calculate Induced Current: Apply Lenz's Law: Relate Lenz's Law toEnergyConservation:U nderstand Motional EMF.
CHEMISTRY			Unit VIII: Aldehydes, Ketones and Carboxylic Acids. Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and	Mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses, Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.	Students will be able to: ● recall the IUPAC naming aldehydes, ketones and carboxylic acids ● appreciate the planar structure at the carbonyl and carboxyl carbon due to

			chemical properties.			sp² hybridisation. ● appreciate the need of acidic or basic medium for the nucleophilic addition reaction ● know the structure of carboxylic acid and derivatives.
BIOLOGY			Unit VIII Biology in Human Welfare Human Health and Diseases Pathogens	Unit VIII : Parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.	Unit VIII Biology in Human Welfare Microbes in Human Welfare Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.	Students will be able to: ● Master the concepts of Innate and acquired immunity. ● Explain the replication of Retroviruses (HIV), the causes of Cancer (oncogenes/carcinogens), and the modern methods used for their detection and treatment.

						● Identify the effects of Drugs (Opioids, Cannabinoids, Coca alkaloids) and Alcohol on the nervous system and their impact during Adolescence. ● Evaluate the role of microbes in sewage treatment (BOD reduction), as bio-control agents (replacing pesticides), and as bio-fertilizers (nitrogen fixation and nutrient enrichment). ● Analyze the large-scale production of antibiotics and the critical importance of their judicious use to prevent
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						the development of antibiotic-resistant "superbugs."
INFORMATICS PRACTICES				Revision on Series and DataFrame. Importing/Exporting Data between CSV files and Data Frames	Writing a CSV file with default index.	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 Students will learn about how to update a CSV file and add records in default index
COMPUTER SCIENCE				Revision on Text and Binary Files, 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, display), Implementation of stack using list.	Students will learn how to perform various operations on CSV file. Students will learn STACK (LIFO - Last In First Out) data structure and implementation of stack using a real time example.

ACCOUNTANCY	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	ACCOUNTING FOR COMPANIES: Accounting for share capital: Share and share capital: nature and types. Public subscription of shares - over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears.	Issue of shares for consideration other than cash. Accounting treatment of forfeiture and reissue of shares.	Students will be able to : -Explain the accounting treatment of share capital transactions regarding issue of shares. develop the understanding of accounting treatment of forfeiture. Understand the accounting treatment of forfeiture and re-issue. Solve numericals.
BUSINESS STUDIES	Summer Break	Summer Break	Summer Break	Financial and non-financial incentives 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, Steps in process of control	Describe financial and non financial incentives. Types of leadership styles Discuss the barriers to communication and how to overcome barriers Explain the concept of

						controlling and importance
ECONOMICS	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	Economic Reforms since-1991: Need for economic reforms, its features Liberalisation, Privatisation,	Globalisation Meaning and Objective, Outsourcing, WTO, An appraisal of LPG Policies.	*Identifies all the activities that led India to the doors of IMF and World Bank for loans. *Compares and contrasts the main economic reforms proposed in the NEP. *Describes the reforms in financial sector through liberalisation. *Explains the role of privatisation of government owned enterprise. *Evaluates outsourcing as one of the outcomes of the globalisation process. *Describes the role of World Trade Centre.

ENTREPRENEURSHIP	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	Business Arithmetic - Return on Investment (ROI) and Return on Equity (ROE)	ENTERPRISE MARKETING - Goals of Business; Goal Setting; SMART Goals - Marketing Strategy - Product Mix, Tagline, Logo - Branding - Packaging and Labelling	Students will learn to - Calculate Return on Investment; Return on Equity and Economic Order Quantity. - Discuss the SMART goals - Outline the aspects of the marketing mix Worksheet discussions
MARKETING	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	Chp 3 Place and Distribution Writing Notes	Revision and WORKsheet Discussion	Students will write notes
ENGINEERING GRAPHICS	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	Combination of nut ,bolt and washer. Free hand sketches - conventional representation of threads.	Machine drawing -Free hand sketches : Types of studs	Recognises the process of free hand sketches,plain stud,stud with square neck and collar stud

PSYCHOLOGY	SUMMER BREAK	SUMMER BREAK	Chp 4: Psychological Disorders Anxiety Disorders Obsessive-Compulsive and Related Disorders Trauma-and Stressor-Related Disorders	Somatic Symptom and Related Disorders Dissociative Disorders Depressive Disorder	Bipolar and Related Disorders Schizophrenia Spectrum and Other Psychotic Disorders Neurodevelopmental Disorders Disruptive, Impulse-Control and Conduct Disorders	*Learners will be able to understand different model explaining about Stress. *They can appreciate various methods to overcome stress
PHYSICAL EDUCATION	SUMMER BREAK	SUMMER BREAK	SUMMER BREAK	Unit 4 Physical Education and Sports for CWSN (Children with Special Needs - Divyang) Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics) Concept of Classification and Divisioning in Sports.	Concept of Inclusion in sports, its need, and Implementation; Advantages of Physical Activities for children with special needs. Strategies to make Physical Activities accessible for children with special needs.	To make students understand the concept of Disability and Disorder. To teach students about the types of disabilities & disorders, their causes, and their nature. To make them aware of Disability Etiquette. To make the students Understand the advantage of physical activity for CWSN. To make the students aware of different strategies for making physical activity

ENGLISH	Lit: Indigo Lit: Journey to the end of Earth	Lit: Journey to the end of the earth Contd Lit: Poets and Pancakes	Lit: Poets and Pancakes Contd Writing: Report Writing for Newspaper and school magazine	Lit: Going Places Reading Comprehension	Lit: The Interview	Students are able to answer questions based on local and global comprehension and also analyse prose lessons and poems critically. They are able to write a Report for a school magazine & newspaper using appropriate language and layout.
MATHEMATICS	Integrals: Integration using trigonometric identities and Particular functions Methods of Integration, Integration of special	Integrals: To understand definite Integral, Definite integral using substitution and properties	Definite Integrals: To understand definite Integral, Definite integral using substitution and properties	Application of Integrals To understand Introduction to application of integrals. Area under simple curves	Application of Integrals Area under simple curves How to use Application of integrals in real life	Integration using trigonometric identities and Particular functions Methods of Integration, Integration of special functions, ILATE rule, Method of Partial fractions, By-Parts.

	functions, ILATE rule, Method of Partial fractions, By-Parts.			How to use Application of integrals in real life		definite Integral, Definite integral using substitution and properties. Definite integral using substitution and properties
PHYSICS		CHAPTER-8- ELECTROMAGNETIC WAVES - Displacement current. Electromagnetic waves-their characteristics, their transverse nature(qualitative treatment only). Electromagnetic spectrum, production properties and uses.	CHAPTER-9-Ray optics- Reflection of light, spherical mirrors, mirror formula. "Refraction of light, total internal reflection and its applications,optical fibres,	Refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula. Magnification, power of a lens, combination of thin lenses in contact, combination of lenses. Refraction of light through a prism.	combination of thin lenses in contact, combination of lenses. Refraction of light through a prism.	Understand, differentiate, and calculate average (mean) and root mean square (RMS) values of alternating current and voltage.Circuit Analysis Phasor Diagrams: LCR Circuits: Understand and analyze series LCR circuits, Resonance & Q-Factor: Define, calculate, and understand the significance Power in AC Circuits: Understand and Analyze Reflection by SphericalMirrors:Apply the laws of reflection to

						plane and spherical surfaces to determine the position, nature, and magnification of images..AnalyzeRefraction of Light:Explain the phenomenon of refraction, Snell's law , and the dependence of the refractive index on light wavelength.Calculate apparent depth and explain atmospheric refraction (e.g., mirages).Master Total Internal Reflection (TIR):Define the critical angle and identify conditions for TIR..Analyze Refraction at Surfaces and Lenses:Apply the
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						refraction formula at a single spherical surface,
CHEMISTRY	Unit IX: Amines Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.	Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.	Unit X: Biomolecules. Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose). polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates.	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.	Enzymes. Hormones excluding structure, Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.	Students will be able to: ● visualise the 3D structure of amines with the help of models and software ● apply Hoffmann degradation reaction to convert higher amides into lower primary amines ● know diazotization as the method for preparation of diazonium salts ● interpret the straight chain as well as cyclic structure of D-glucose and relate it with D-glyceraldehyde.

BIOLOGY	UNIT IX Biotechnology and Its Applications Biotechnology - Principles and Processes Genetic Engineering (Recombinant DNA Technology).	UNIT IX Biotechnology and Its Applications Biotechnology - Principles and Processes Genetic Engineering (Recombinant DNA Technology).	UNIT IX Biotechnology and its applications Application of biotechnology in health and agriculture: Human insulin and vaccine production.	UNIT IX Biotechnology and its applications stem cell technology, gene therapy;	UNIT IX Biotechnology and its applications Genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents.	Students will be able to: ● Describe restriction enzymes, cloning vector. ● Understand procedures, to transfer rDNA into host cell. ● Understand the importance and the application of all the tools required to prepare a rDNA. ● Understand the PCR procedure and relate it to its importance during covid for testing. ● Understand the types and the use of Bioreactors in Biotechnology
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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..	Aggregate Functions in SQL – Sorting – Order By.	More queries with where and order by clauses	To learn about the plots, graphs and matplotlib with the different plots like line graph, bar graph, histogram, scatter plot, area plot and pie chart. Methods using pyplot. Students will be familiar with different rules: 1.To make informative plots 2. Using different marker and line styles 3. Using interactive navigation toolbar for interactive plotting The concept of the following will be covered : 1. sum() , min(), max() , count() 2. Sorting the records using order by clause
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,	Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n),	Introduction to Database management system,. Relational data model, Create database, use database, show databases, drop	Introduction to DDL & DML statements, create table, describe table	Students will learn the purpose of creating a Database and its advantages compared to traditional method. Student will learn various concepts of

		alternate key, foreign key)	int, float, date), constraints (not null, unique, primary key)	database, show tables		Relational Database Management System and rules to implement while creating a Database.They will learn a language to interact with Database. Different command languages will be taught to perform various operations on Database
ACCOUNTANCY	Accounting treatment of forfeiture and reissue of shares. Comprehensive problems: Issue,calls in arrear, advance,forfeiture and reissue.	Accounting treatment of forfeiture and reissue of shares. Comprehensive problems: Issue,calls in arrear, advance,forfeiture and reissue.	Disclosure of Share Capital in Company's Balance Sheet. ACCOUNTING FOR ISSUE OF DEBENTURES: Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash.	Issue of debentures with terms of redemption. Issue of debentures as collateral security.	Interest on debenturesWriting off discount / loss on issue of debentures.	Pass entries, prepare cash book, A/c s and presentation of share capital in the balance sheet. Explain the accounting treatment of different categories of transactions related to the issue of debentures.Students will be able to:

						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 off discount / loss on issue of debentures. Understand the circumstances under which losses on the issue occur and the method of writing off the loss and pass the entries.
BUSINESS STUDIES	Marketing – Concept, functions and philosophies Marketing Mix Product – branding, labelling and packaging	Price - Concept, Factors determining price Physical Distribution – concept, components and channels of distribution. Promotion – Concept and	Advertising, Personal Selling, Sales Promotion and Public Relations Financial Markets: Concept Money Market: Concept Capital market and	Money Market Instruments Stock Exchange - Functions and trading procedure Securities and Exchange Board of India (SEBI) - objectives and functions	Securities and Exchange Board of India (SEBI) - objectives and functions	Understand the concept of marketing mix. Describe the elements of the marketing mix Understand the concept of product as an element of marketing mix Classify products into different categories

		elements	its types primary and secondary)			Understand the concept of promotion as an element of marketing mix. Describe the elements of the promotion mix
ECONOMICS	Human Capital Formation Meaning , Role of HCF in Economic development.	HCF (Conti) Problems of HCF. Measures taken by the govt. to promote the development of HCF.	Determination of Income and Employment: AD and its Components AD= AS & S=I Approach	Determination of Income and Employment: Cont. Propensity to consume and propensity to save (average and marginal). * Short-run equilibrium output; investment multiplier and its mechanism. * Meaning of full employment and involuntary unemployment	Rural Development: Key issues-Credit n Marketing. Role of Cooperatives Agricultural Diversification,Alternative farming,Organic farming - Merits n Demerits	*Argues for or against migration of human capital for employment. *Summarises the different factors that play a role in human capital formation. *Evaluates the relation between growth in human capital formation and economic growth. *Defines and formulates Average Propensity to Save (APS) and Marginal Propensity to save (MPS). *Defines investment.

						*Explains the determination of equilibrium income in the short run. *Demonstrates Equilibrium Output and Aggregate Demand in the Fixed Price Model. *Differentiates between excess and deficient demand. *Summarises the importance of investment in rural development and the key areas for rural development. *Justifies the importance of opening opportunities for farming and non-farming activities for rural development. *Outlines the various factors that led to
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						farmers falling into debt traps in the independence era. *Evaluates the efficacy of the different programmes initiated by the government to regulate the agricultural market.
ENTREPRENEURSHIP	Price Mix - Types	Place Mix - channels and Factors	Promotion Strategies - Understand the sales strategy - State the different types o - 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	- Highlight the channels of distribution and its factor	Chapter 4: ENTERPRISE GROWTH STRATEGIES - Growth and development concept - Franchising: Concept and types - Franchising: Advantages and limitations to franchisor and franchisee. - -Mergers and Acquisition: Concept, reasons and types.	- Appreciate growth of business through mergers and acquisitions - Discuss the different types of mergers and acquisitions

			- Will be able to understand the concept of personal selling and sales promotion - Discuss the various techniques of sales promotion.			
MARKETING	SELF MANAGEMENT SKILLS - IV 1. Describe the various factors influencing self motivation 2. Describe the basic personality traits, types and disorders 3. Stress management strategies 4. Self awareness 5. Result orientation - Goal setting Writing Notes	Writing Notes Chp 4 Promotion 1. Explain the meaning and importance of Promotion 2. ATL and BTL 3. Comprehend the elements of promotion mix (A) Advertising - Meaning - Modes of Advertising I. Print Media a. Newspaper - Merits	c. Yellow page - Merits - Demerits Radio TV Cinema 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 (D) Word of Mouth (E) Direct Marketing (F) Online Marketing (G) Public Relations (H) Sponsorships 5. Factors affecting Selection of Promotion Mix Writing Notes	Revision and Worksheet Discussion	Students will be able to: ● Define and explain the meaning of promotion in marketing. ● Understand the importance of promotion in influencing customer decisions and sales. ● Differentiate between Above-the-Line (ATL) and Below-the-Line (BTL)

- Demerits
Modes of Advertising
b. Magazines
- Merits
- Demerits

promotional activities.
● Identify and explain the elements of the promotion mix.

Advertising

- Define advertising and explain its role in marketing communication.
- Identify various modes of advertising across different media.
- Analyze print media advertising such as newspapers and evaluate their merits and demerits.
- Analyze magazine advertising and evaluate its merits and demerits.

						● Explain yellow pages advertising and assess its advantages and limitations. ● Evaluate electronic media advertising such as radio, television, and cinema. ● Assess outdoor advertising and other emerging forms of advertising.
ENGINEERING GRAPHICS	Types of Rivet heads	Types of Machine screws	Unit 3 : Bearings -Introduction to the new chapter ,concept of Assembling of bushed bearing.	Bushed bearing : Disassembly	Open bearing : Assembly	Gets clear idea about the construction of assembling of bushed bearing from the disassembled views.
PSYCHOLOGY	Feeding and Eating Disorders Substance Related and Addictive Disorders	Chp. 5- Introduction to the Chapter Therapeutic Approaches The topics in this	Types of Therapies Behaviour Therapy •Cognitive Therapy	•Humanistic-Existential Therapy •Alternative Therapies •Factors contributing to	Revision for Chps. 3-5	Learners will be able to-

		unit are: 1. Nature and Process of psychotherapy Therapeutic relationship		healing in Psychotherapy Ethics in Psychotherapy 3. Rehabilitation of the Mentally Ill		* Differentiate between different disorders *Relate to real life examples and cases ----- ----- Chp 5- * understand how approaches to therapy differ *Recall the basic steps of TherapyLearners will be able to- * elaborate on components of different theoretical approaches. *Appreciate the value of therapy in well being of individuals.
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PHYSICAL EDUCATION	Unit 5 Sports & Nutrition Concept of balanced diet and nutrition Macro and Micro Nutrients: Food sources & functions, Nutritive & Non-Nutritive Components of Diet.	Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths, Importance of Diet in Sports-Pre, During and Post competition Requirements	Unit 6 Test & Measurement in Sports Fitness Test – SAI Khelo India Fitness Test in school: Age group 5-8 years/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Partial Abdominal Curl Up, Push-Ups for boys, Modified Push-Ups for girls).	Measurement of Cardio-Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise. Computing Basal Metabolic Rate (BMR)	Rikli & Jones - Senior Citizen Fitness Test oChair Stand Test for lower body strength oArm Curl Test for upper body strength oChair Sit & Reach Test for lower body flexibility oBack Scratch Test for upper body flexibility oEight Foot Up & Go Test for agility oSix-Minute Walk Test for Aerobic Endurance Johnsen – Methney Test of Motor Educability (Front Roll, Roll, Jumping Half-Turn, Jumping full-turn)	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 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/Rock-port Test *Compute Basal Metabolic Rate (BMR) *Describe the procedure of Rikli and Jones - Senior Citizen Fitness Test

PAT	Unit 1 – Communication Skills Methods of Communication -Verbal Communication	-Non-verbal Communication -Communication Cycle & Feedback	-Barriers to Effective Communication -Writing Skills – Parts of Speech	-Writing Skills – Sentences Unit 2 – Self-Management Skills Stress Management	-Self-Awareness (Strength & Weakness)	-Self-Awareness (Strength & Weakness)
SOCIOLOGY	Chap 7: Change and Development in Rural Society -Green Revolution & its sociological significance -Globalization, Liberalization and Commercialization of agriculture	Chap 7: Rural society continued - Farmer's suicides - Contract Farming Discussion of QB & CBQ's	Chap 8: Change & Development in Industrial Society -Introduction -Formal and Informal sectors - How do people find jobs	Chap 8: Change & Development in Industrial Society -Home based work - Liberalization and its impact on industry & jobs - Working Conditions	Chap 8: Industrial Society -Strikes & Unions -Discussion of QB and CBQ's	<i>Change & Development in Rural Society:</i> -Understanding Rural Structure and Agrarian Relations Students will be able to describe the structure of rural society, including agrarian classes, land ownership patterns, and relationships between farmers, landlords, and laborers. -Analyzing Factors of Change in Rural Society Students will be able to examine the impact of factors such as technology, policies, and economic reforms (e.g.,

						Green Revolution) on rural transformation. -Exploring Rural Development Programs Students will be able to explain the objectives and outcomes of major rural development initiatives and assess their effectiveness in improving livelihoods. -Evaluating Challenges and Inequalities Students will be able to analyze issues such as rural poverty, unemployment, indebtedness, and regional disparities, and evaluate their implications for development.
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Indian School Wadi Kabir

Class: XII

**ISWK SHARING KNOWLEDGE
(Monthly Plan - September 2026)**

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	Lit: The Interview Contd REVISION FOR ASST 1	REVISION	REVISION ASST 1 BEGINS	ASST 1	ASST 1	Students are able to answer questions based on local and global comprehension and also analyse prose lessons critically.
MATHEMATICS	Differential Equations	Revision for AS1	Revision for AS1	Assessment 1	Assessment 1	Understands Introduction, Degree and order,

	To understand Introduction, Degree and order, General and particular solution.					General and particular solution.
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PHYSICS	Refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula. Magnification, power of a lens, combination of thin lenses in contact, combination of lenses. Refraction of light through a prism.	Optical instruments. Microscopes and astronomical telescopes (reflecting & refracting) and their magnifying powers.	ASSESSMENT-1 AND REVISION	ASSESSMENT-1 AND REVISION	ASSESSMENT-1 AND REVISION	LensMaker'sFormula to design lenses with desired focal lengths.Apply the Thin Lens Formula, Calculate the power of a lens and equivalent focal lengths for combinations of thin lenses.Understand Optical Instruments:
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CHEMISTRY	Unit III: Chemical Kinetics Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst.	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	REVISION, ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Students will be able to: • appreciate the importance and need of Chemical Kinetics in Chemistry • specify the listed factors and its effect on the rate of reaction • derive the units of rate constant for reactions having different orders • express the quantitative dependence of rate of reaction on temperature mathematically in the form of Arrhenius equation
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BIOLOGY	Unit IX Biotechnology Biotechnology and its Applications Genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents.	Revision for Assessment I	Revision Assessment Begins	ASSESSMENT 1 EXAM	ASSESSMENT 1 EXAM	Students will be able to: • Evaluate the potential risks of Genetically Modified Organisms (GMOs) to human health and the environment. • Explain the legal role of patents in protecting biotechnology innovations and recognize biopiracy as the unethical exploitation of biological resources.
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INFORMATICS PRACTICES	Group By – Having Clause – Aggregate Functions and Condition on Groups Revision for Assessment 1	Revision for Assessment 1 Examination : Pandas Series and DataFrame	ASSESSMENT 1 EXAM	ASSESSMENT 1 EXAM	ASSESSMENT 1 EXAM	The purpose is to deliver the concept of categorising the data using 2 functions. Students will revise the Series and DataFrame
COMPUTER SCIENCE	Alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by	Meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count),	ASSESSMENT 1 EXAM	ASSESSMENT 1 EXAM	ASSESSMENT 1 EXAM	Students will be able to make alterations on the structure of the table by adding an attribute or removing any. Students will be learning the difference between null, not null, like clause aggregate functions etc
ACCOUNTANCY	FINANCIAL STATEMENT ANALYSIS: Financial statements of a Company: Financial statements of a	REVISION	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Students will develop the understanding of major headings and sub-headings of the balance sheet as per

	Company, Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings.					the prescribed norms/formats. Learn the meaning, objectives and limitations of financial statement analysis.
BUSINESS STUDIES	Financial Management: Concept, role and objectives Financial decisions: investment, financing and dividend - Meaning and factors affecting Financial Planning - concept and importance	Capital Structure – concept and factors affecting capital structure Fixed and Working Capital - Concept and factors affecting their requirements	REVISIONS	ASSESSMENT 1	ASSESSMENT 1	• Understand the concept of financial management • Explain the role of financial management in an organisation • Discuss the objectives of financial management

ECONOMICS	Government budget and the economy: Meaning, objectives and components Changes in Govt spending,taxes Classification of receipts-Revenue receipts and Capital receipts Classification of expenditure – Revenue expenditure and Capital Expenditure Measures of Government Deficit: Revenue,Fiscal and Primary deficit : Meaning	Revisions	Assessment 1	Assessment 1	Assessment 1	*Explain the budget and reason out the main areas of government spending and its impact on those areas. *Discuss the role of government in an economy through budgetary process and different types of taxes. *Discuss fiscal policy measures with respect to change in tax and spending, that cause balance or imbalance in the budget and calculate the size of a budget deficit or surplus.
ENTREPRENEURSHIP	Reasons for mergers and acquisitions	REVISIONS	Assessment 1	Assessment 1	Assessment 1	Students will be able to understand :

	Chapter 5: Resource Mobilization -Capital Market: Concept. - Primary market: Concept, methods of issue - Angel Investor: Features. - Venture Capital: Features, funding. Funding by Venture Capital	Worksheet discussions				-Capital Market: Concept. - Primary market: Concept, methods of issue - Angel Investor: Features. - Venture Capital: Features, funding. Funding by Venture Capital
MARKETING	ICT SKILLS - IV 1. Types and components of spreadsheet 2.Perform tabulation using spreadsheet application 3. Working with data and formatting text 4. Protecting spreadsheet with password 5. Presentation software 6. Open, Closing, Printing saving a ppt	Revision and Worksheet Discussion	Assessment 1	Assessment 1	Assessment 1	Students will be able to: Identify the types and components of a spreadsheet application. Perform tabulation and organize data using a spreadsheet. Work with data effectively and apply appropriate text formatting in spreadsheets. Apply password protection to secure spreadsheet data.

						Understand the features and uses of presentation software. Open, create, save, close, and print presentation files effectively.
ENGINEERING GRAPHICS	Open bearing : Disassembly	Unit 4 : Rod joints- Introduction and types of rod joints and definitions, Assembly and disassembly of sleeve and cotter joint & Revision for Assessment 1	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Knowledge of new chapter rod joints with its detailed definitions.
PSYCHOLOGY	Psychological Testing 2 Tests- Administration & Scoring	Psychological Testing 2 Tests- Administration & Scoring	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Students will be able to understand the practical application of Psychological Tests
PHYSICAL EDUCATION	Unit-7 Physiology & Injuries in Sport Physiological factors determining components of physical fitness Effect of exercise on the	Physiological changes due to aging Sports injuries: Classification (Soft Tissue Injuries		ASSESSMENT 1	ASSESSMENT 1	Understanding the physiological factors determining the components of physical fitness. Learning the effects of exercises on the Muscular

	Muscular System Effect of exercise on the Cardio-Respiratory System	-Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impacted)	ASSESSMENT 1			system. Learning the effects of exercises on Cardiovascular system & Respiratory System. Learning the changes caused due to aging. Understanding the Sports Injuries (Classification, Causes, and Prevention) Understanding the Aims & Objectives of First Aid Understanding the Management of Injuries
PAT	-Self-Motivation -Goal Setting	-Time Management & PRACTICALS	ASSESSMENT 1	ASSESSMENT 1	ASSESSMENT 1	Develop self-motivation, goal setting, and effective time management skills.
SOCIOLOGY	Chap 8: Completion of Industrial Society REVISION FOR ASST 1	REVISION FOR ASST 1	REVISION FOR ASST 1	ASST 1	ASST 1	<i>Change & Development in Industrial Society:</i> -Understanding Industrialization and Its Features

						Students will be able to explain the concept of industrialization and describe the key characteristics of industrial society, including division of labour and mechanization. -Analyzing Changes in Work and Labour Relations Students will be able to examine how industrialization has transformed work patterns, employment structures, and labour relations, including the role of formal and informal sectors. -Exploring the Growth of Organized Labour
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						Students will be able to understand the emergence and role of trade unions and workers' movements in protecting labour rights and improving working conditions. -Evaluating Social Impact of Industrial Development Students will be able to assess the effects of industrialization on urbanization, migration, class structure, and issues such as inequality and labour exploitation.
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Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE

(Monthly Plan - October 2026)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	Lit: On the Face of it	Lit: On the face of it completed	Poem: A Roadside stand Writing: Replies to Invitation	Poem: A Roadside stand Continued	Lit: Going Places Poem: Aunt Jennifer's Tigers	Students are able to answer questions based on local and global comprehension and also analyse prose lessons and poems critically.
MATHEMATICS	Differential Equations: To understand differential equations 1st order and first	Vector Algebra: To understand Introduction, Types of vectors, Addition of	Vector Algebra: Scalar triple product of 3 vectors, projection of one vector on	Three Dimensional Geometry Direction cosine of a line passing	Three Dimensional Geometry Shortest distance between 2 lines ,	Understands differential equations. 1st order and first degree using variable

	degree using variable separable method, homogeneous equations, Linear Differential Equation method	vectors, Multiplication of vectors by scalar, Dot and cross product, Scalar triple product. Idea of vector product	another , To analyze vectors if dot product or cross product is zero. Concept related to 3D. Direction cosine idea	through two points. Equation of a line in a space Equation of a line passing through a point and parallel to a vector.	Equation of plane, Coplanarity of 2 lines,	separable method, homogeneous equations, Linear Differential Equation method. Direction cosine of a line passing through two points. Equation of a line in a space
PHYSICS	CHAPTER-10-WAVE OPTICS-Wave motion, wave characteristics, wavefront. Huygen's principle.Reflection and refraction of a plane wave and its proof.Interference,	Young's double slit experiment and expression for fringe width(no derivation final expression only), coherent sources and sustained interference of light.Diffraction due to a single slit, width of central maximum(qualitative treatment only). 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.Matter waves - wave nature of particles, de Broglie relation. Exercises and numerical.	CHAPTER-12-Atom - Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum	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.Exercise questions and numerical.	Understand Wavefronts & Huygens' Principle.Derive Laws of Reflection and Refraction.Analyze Interference of Light (YDSE)Understand DiffractionUnderstand Photoelectric Emission:Analyze Photoelectric Effect:Understand Particle Nature of Light.Understand Matter Waves. Verify Wave-Particle Duality. Identify components of nucleus. Define Isotopes, Isobars, andIsotones:Understand Nuclear

						Density:Analyze Atomic Mass Unit (u):Calculate Mass Defect and binding energy.Understand Nuclear Forces.
CHEMISTRY	Unit V: d and f Block Elements General introduction, electronic configuration.	characteristics of transition metals, General trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour. catalytic property, magnetic properties, interstitial compounds, alloy formation.	preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$, Lanthanoids and Actinoids – Electronic configuration, oxidation states	chemical reactivity and lanthanoid contraction and its consequences. - comparison with lanthanoids.	Unit IX: Coordination Compounds Coordination compounds - Introduction, ligands, Coordination number, colour, magnetic properties and shapes, Werner's theory, IUPAC nomenclature of mononuclear coordination compounds, Bonding, VBT, and CFT	Students will be able to: ● appreciate the importance of studying d- and f block elements and their compounds ● discuss the possibility for and against inclusion of copper in 3d series ● describe the preparation, properties, structures and uses of some important compounds

						such as $K_2Cr_2O_7$ and $KMnO_4$ - comprehend the consequences of Lanthanoid contraction - deduce the coordination number and oxidation state of metal in coordination compounds - understand IUPAC rules for naming mononuclear coordination compounds.
BIOLOGY	Unit X Ecology Organisms and Populations Population interactions - mutualism, competition, predation, parasitism;	Unit X Ecology Organisms and Populations Population interactions - mutualism, competition,	Unit X Ecology Organisms and Populations Population attributes - growth, birth rate and death rate, age distribution.	Unit X Ecology Ecosystems Patterns, components, productivity and decomposition; energy flow; pyramids of	Unit X Ecology Ecosystems Energy flow; pyramids of number, biomass, energy.	Students will be able to: - Understand the different types of population interactions. - Appreciate the

		predation, parasitism;		number, biomass, energy.		importance of interspecific interactions in biotic community. ● Appreciate the roles of organisms in different food chains and food web. ● Understand ten percent law in energy flow models
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INFORMATICS PRACTICES		Single row functions-numeric, string and date functions. Working with two tables using equi-join	Introduction to Computer Networks Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway	Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.	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 plug-ins, cookies.	Concept of the following functions: 1. Numeric functions 2. Date Functions 3. String Functions 4. Joining two tables Students will be learning 1. Application of different network devices 2. To choose the appropriate device for a given application Students will understand 1. Different topologies 2. Concept of Internet 3. World wide web applications
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	Display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications	Evolution of networking: introduction to computer networks, evolution of networking	Data communication terminologies: concept of communication, components of data communication, measuring capacity of communication media , IP address, switching techniques (Circuit	Students will learn how to take information from two tables. To understand about various API calls and methods between Python and MySQL connectivity

		insert, update, delete queries using cursor		(ARPANET, NSFNET, INTERNET)	switching, Packet switching)	To know the concept of Computer Network, its evolution and data transfer rate. To understand about Wired and Wireless media and various switching techniques
ACCOUNTANCY		Tools for Financial Statement Analysis: Comparative statements, common size statements, Ratio analysis.	Ratio Analysis.	Cash Flow Statement.	Cash Flow Statement	Meaning of different tools of financial statements analysis. Develop the skill of preparation of comparative and common size statements. Understand the uses and differences between the two. Understand the meaning, objectives and significance of different types of ratios. Develop the

						understanding of computation of Solvency, liquidity, activity and profitability ratios. Learn the meaning and objectives of the cash flow statement-activities and flow of cash. Develop understanding of preparation of Cash Flow Statement with adjustments.
BUSINESS STUDIES		Factors affecting working capital EBIT-EPS Analysis Problems	The Consumer Protection Act, 2019: Meaning of consumer Rights and responsibilities of consumers Who can file a complaint? Redressal	Worksheet Discussion and Revision	Worksheet Discussion and Revision	● Students will be able to ● state the importance of consumer protection; ● briefly explain legal framework for

			machinery Remedies Consumer awareness - Role of consumer organizations and Non-Governmenta l Organizations (NGOs)			consumer protection in India; ● describe consumer rights in India; briefly describe the ways and means of consumer protection;d escribe consumer rights in India; briefly describe the ways and means of consumer protection;b riefly explain legal framework for consumer protection in
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						India; Students will be able to explain the role of consumer organisations ●
ECONOMICS		Employment, Growth and Informalisation Growth and changes in work force participation Formal and Informal-Problems and Policies.	Open Economy: Balance of Payments Account: Meaning and Components Current a/c and Capital a/c	Balance of Payments Account: (Conti...) Balance of Trade, BOP: Surplus and Deficit - Meaning, Types Autonomous and Accommodating items - Meaning	Balance of Payments Account: (Conti...) Exchange rates: Fixed and Flexible-Merits and Demerits Managed floating rate	* Communicate economic information and ideas related to National income, Human development index and sustainable development. * Predict and evaluate the challenges facing the Indian economy. * Highlights the major

						environmental concerns India has. *Discuss the strategies adopted for sustainable development in India. *Discuss monetary policy measures with respect to change in interest rates, money supply and foreign exchange rates. *Explains the different components of current account and capital account. *Analyses the values of overall balance and reserve charge for balance of payments deficit,
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						balanced and surplus. *Analyse the demand for and supply of a currency in the foreign exchange market.
ENTREPRENEURSHIP	ASSESSMENT 1	REVISIONS Worksheet Discussions	Worksheets	Worksheets	Revision	
MARKETING	ASSESSMENT 1	EMERGING TRENDS IN MARKETING 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	6. Analyze the advantages and disadvantages of online marketing Social media marketing - advantages and platforms	Revision and Worksheet Discussion	ENTREPRENEURIAL SKILLS "1. Understand the meaning and characteristics of entrepreneurship 2. Identify the qualities of an entrepreneur 3. Differentiate between the types of entrepreneur "4. Understand the Roles and functions of an entrepreneur	Students will be able to: Define and explain the meaning and key characteristics of services. Analyze the growth and significance of the service sector in India. Identify and classify different types of services. Evaluate the criteria used to judge the quality of services.

		marketing, Traditional marketing and Digital Marketing			5. Analyze the motivating factor for an entrepreneur 6. Highlight the concept of Startups 7. Comprehend the Barriers to Entrepreneurship 8. Inculcate Entrepreneurial Attitudes 9. Understand the Entrepreneurial Competencies" Writing Notes	Understand and differentiate between online marketing, traditional marketing, and digital marketing. Analyze the advantages and disadvantages of online marketing. Explain the concept and importance of social media marketing. Identify various social media platforms used for marketing purposes. Evaluate the advantages of social media marketing for businesses.
ENGINEERING GRAPHICS	ASSESSMENT 1	Gib and cotter joint : Assembly and disassembly	Unit V : Tie Rod and Pipe joints - Introduction and definitions of pipe joints - Assembly of turnbuckle and Disassembly of turnbuckle.	Flanged pipe joint -definitions	Flanged pipe joint - Assembly	Understands the concept of pipe joint and assembling of flanged pipe joint from the disassembled views.

PSYCHOLOGY	Chp 6: Social Cognition Introduction Explaining Social Behaviour Social Cognition	Attitude Formation and Change Attitude Formation Attitude Change Attitude-Behaviour Relationship	Nature and Components of Attitudes Prejudice and Discrimination Strategies for Handling Prejudice	Schemas and Stereotypes Impression Formation and Explaining Behaviour of Others through Attributions Impression Formation Attribution of Causality	Behaviour in the Presence of Others Pro-social Behaviour Factors Affecting Pro-social Behaviour	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
PHYSICAL EDUCATION	Unit 8 Biomechanics and Sports Newton's Law of Motion & its application in sports Types of Levers and their application in Sports.	Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports. Friction & Sports , Projectile in Sports	Unit 9 Psychology and Sports Personality; definition & types (Jung Classification & Big Five Theory) , Motivation, its type & techniques.	Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it	Meaning, Concept & Types of Aggressions in Sports. Psychological Attributes in Sports – Self-Esteem, Mental Imagery, Self-Talk, Goal Setting	Understanding Newton's Laws of Motion and their Application in Sports. • Make students understand the lever and its application in sports. Make students understand the concept of Equilibrium and its application in sports.

						Understanding Friction in Sports. Understanding the concept of Projectile in sports. To make students understand Personality & its classifications. To make students understand motivation and its techniques. To make them aware of aggression in sports and types. To make students understand Psychological Attributes in Sports.
PAT		-Basic Computer Operations -Basic File Operations-Computer Care & Maintenance -Computer Security & Privacy	Unit 4 – Entrepreneurial Skills Entrepreneurship and Society -Qualities & Functions of Entrepreneur	-Myths about Entrepreneurship -Entrepreneurship as Career	Revising all topics	Develop basic computer skills, ensure security, and understand entrepreneurship, its qualities, functions, myths, and career opportunities.

SOCIOLOGY	Chap 9: Social Movements Introduction & Definition	Chap 9: Social Movements -Types: Reformative, Redemptive and Revolutionary - Old & New Social Movements	Chap 9: Peasant & Class based Movements	Chap 9: Caste based & Ecological Movements	Chap 9: Tribal Movements	Understanding Key Concepts Students will be able to define and explain the meaning of social movements and differentiate between types such as reformist, revolutionary, and resistance movements. Analyzing Causes and Features Students will be able to identify the social, economic, and political factors that lead to the emergence of social movements and describe their key characteristics. Examining Types of Movements in India Students will be able to classify and
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						analyze examples of environmental, women's, tribal, and peasant movements in India. Evaluating Impact and Significance Students will be able to assess the role of social movements in bringing social change and their impact on society, policies, and democratic processes.
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Indian School Wadi Kabir

Class: XII

ISWK SHARING KNOWLEDGE

(Monthly Plan - November 2026)

SUBJECTS	Week - 1	Week - 2	Week - 3	Week - 4	Week - 5	Learning Outcomes
ENGLISH	Lit: Memories of Childhood ASL: Listening Test	REVISION of all Poems in the syllabus	REVISION	REVISION	Revision	Revision of all topics in the syllabus
MATHEMATICS	Linear Programming Problems; To recall and understand the problem and mathematical formulation, Applications in daily life. Solutions to problems	Probability: To understand conditional probability, Multiplication theorem , Addition theorem, To solve problem by Bayes' theorem, Independent events , Bayes'	Probability Probability distribution of different random variables. Revision for Prelim 1	Revision for Prelim 1	Revision for Prelim 1	Recalls and understand the problem and mathematical formulation, Applications in daily life. Solutions to problems Revision using previous year CBSE papers

		theorem, Random variables and its probability distribution.				
PHYSICS	CHAPTER-14-SEMICONDUCTOR ELECTRONICS- Electronic devices Energy bands in solids (Qualitative ideas only) conductor, insulator and semiconductor; semiconductor diode	Intrinsic and extrinsic semiconductors. N and P type semiconductors.se miconductor diode – I-V characteristics in forward and reverse bias, diode as a rectifier; IVcharacteristics.E xercise questions and numerical.	REVISION	REVISION	REVISION	Distinguish between conductors, insulators, and semiconductors based on their energy band structure.Understand band theory:Differentiate semiconductors:Doping and Extrinsic Semiconductors.Understand P-N junction formation: Analyze Diode I-V characteristics:Understand the application of diodes in rectifier circuits, including half-wave and full-wave rectifiers.
CHEMISTRY	Structure and stereoisomerism, the importance of coordination	REVISION	REVISION	REVISION AND PRELIM 1	REVISION AND PRELIM 1	Students will be able to: ● appreciate the importance

	compounds (in qualitative analysis, extraction of metals and biological systems).					and applications of coordination compounds in our day to day life • infer the usefulness of coordination compounds to qualitative analysis • appraise the involvement of coordination compounds in metallurgy
BIOLOGY	Unit X Ecology Biodiversity and its Conservation Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves,	Unit X Ecology Biodiversity and its Conservation Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites. Revision & completion of Practicals,	Revision	Revision	Revision	Students will be able to: • Understand the importance of Biodiversity and its levels. • Understand the patterns of Biodiversity and analyse

Practical records
& project
followed by
submission

- how it is
affected by
geographical
patterns.
- 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.

INFORMATICS PRACTICES	Societal Impacts Digital footprint, net and communication etiquettes, Data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking phishing, cyber bullying, overview of Indian IT Act.	E-waste: hazards and management. Awareness about health concerns related to the usage of technology and Ergonomics.	REVISION	REVISION	REVISION	Students will understand the concept of 1. Digital footprints 2. data protection 3. intellectual property rights 4. Digital right management Students will understand the concept of 1. What is E waste made up of and the waste disposal techniques 2. Gender and disability issues while teaching and using computers 3. 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	REVISION	Students will be learning 1. Application of different network devices 2. To choose the appropriate device

						for a given application Students will be learning the concept of networking. 1. The different types of networks 2. Application of different types 3. Distinguish the different types of networks based on the specification
ACCOUNTANCY	Cash Flow Statement.	Revision	Revision	Revision	Revision	Students will be able to develop the understanding of preparation of Cash Flow Statement.
BUSINESS STUDIES	Revision	Revision	Revision	Revision	Revision	
ECONOMICS	Comparative Development Experiences of India and its Neighbours	Development Experience of India: A comparison with neighbours	Revision	Revision	Rehearsal 1	*Investigate the relationship between India and its neighbours

	Development Experience of India: A comparison with neighbours India and Pakistan	India and Pakistan Revision				*Analyse reasons for change and consequences of trade with other countries
ENTREPRENEURSHIP	Worksheet Discussions	Revision	Revision	Revision	Revision	
MARKETING	Revision and WORKsheet Discussion	Revision	Revision	Revision	Revision	
ENGINEERING GRAPHICS	Flanged pipe joint : Disassembly	Revision classes for Rehearsal 1. Difference between Teams & Groups, Group think, Social Loafing	SUBMISSION OF JOURNAL & PROJECT	REHEARSAL 1	REHEARSAL 1	Understands the concept of pipe joint and disassembling of flanged pipe joint from the assembled views.
PSYCHOLOGY	Chp 7:- Social Influence and Group Processes Introduction Nature and Formation of Groups Type of Groups		REVISION OF COMPLETE PORTION	REVISION OF COMPLETE PORTION	REHEARSAL 1	Learners will be able to understand Group dynamics, * Enlist REasons for people to join groups.

		Group Polarization				
PHYSICAL EDUCATION	Unit 10 Training in Sports Concept of Talent Identification and Talent Development in Sports Introduction to Sports Training Cycle –Micro, Meso, Macro Cycle.	Types & Methods to Develop – Strength, Endurance, and Speed. Types & Methods to Develop – Flexibility and Coordinative Ability. Circuit Training - Introduction & its importance	Revision	REHEARSAL 1	REHEARSAL 1	Making the students understand the concept of talent identification and methods in sports Making the students Understand sports training and the different cycle in sports training.Making the students Understand different types & methods of strengths, endurance, and speed.
PAT	Unit 5 – Green Skills Sustainable Development	Our Role in Sustainable Development	REVISION	REHEARSAL 1 EXAMS	REHEARSAL 1 EXAMS	Understand green skills and actively contribute to sustainable development practices.
SOCIOLOGY	Chap 9: Social Movements	REVISION	REVISION	REVISION	REVISION	Revision of all topics in the syllabus

	-Women's Movement Discussion of QB & CBQ's					
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