

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Geography	
Months	Topic
April	“India : Physical Environment” Ch – 1 India Location Ch – 2 Structure and Physiography “Fundamental of Physical Geography” Ch – 1 Geography as a Discipline
May	“India : Physical Environment” Ch – 3 Drainage System Ch – 4 Climate Ch – 5 Natural Vegetation
June	Summer Vacation
July	“India : Physical Environment” Ch – 6 Soil Ch – 7 Natural Hazard & Disasters “Fundamental of Physical Geography” Ch – 2 The Origin and Evolution of the Earth Ch – 3 Interior of the Earth
August	“Fundamental of Physical Geography” Ch – 4 Distribution of Oceans and Continents Ch – 6 Geographic process
September	Term 1 Exam
October	“Fundamental of Physical Geography” Ch – 7 Landform and their evolution Ch – 8 Composition and Structure of Atmosphere Ch – 9 Solar Radiation, heat balance and temperature
November	“Fundamental of Physical Geography” Ch – 10 Atmosphere circulation and weather system
December	“Fundamental of Physical Geography” Ch – 11 Water in Atmosphere Ch – 12 World climate and climate changes Ch – 13 Water
January	“Fundamental of Physical Geography” Ch – 14 Movement of Ocean Water Ch – 15 Life on Earth Ch – 16 Biodiversity and conservation
February	Practical + Revision for Annual Exam
March	Annual Exams Revision + Annual Exam

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Economics	
Months	Topic
April	(Introductory Micro Economics) Ch – 1 Economics and Economy Ch – 2 Central Problems of an Economy Ch – 3 Consumer Equilibrium
May	Ch – 1, 2 (Statistics for Economics) Concept of Economics and Significance of Statistics in Economics Ch – 2 Collection of Data
June	Summer Vacation
July	Ch – 3 Census and Sample Method Collection Ch – 4 Organisation of Data
August	Ch – 5 Presentation of Data – Textual and Tabular Presentation Ch – 6 Bar Diagrams and Pie Diagram Ch – 7 Histogram Polygon and Ogine Ch – 8 Time Series graphs, measures of central tendency – Arithmetic mean
September	Ch – 10 Median and mode Revision for 1 st term Exam 1 st Term exam conducted
October	Ch – 11 Measures of Dispersion Ch – 12 Correlation Ch – 13 Index Numbers
November	Utility Analysis Ch – 4 Indifference curve analysis
December	Ch – 5 Theory of Demand Ch – 6 Price Elasticity of Demand Ch – 7 Production Function Ch – 8 Concept of Cost & Concept of Revenue U.T. – III
January	Producer Equilibrium – Ch – 10 Theory of Supply – Ch – 11 Winter Break
February	Ch – 12 Forms of Market Ch – 13 Market Equilibrium under perfect competition and effects of shifts in Demand and Supply Revision for Annual Exams
March	Annual Exam

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Physical Education	
Months	Topic
April	Unit I Changing Trends & Career in Physical Education Concept, Aims & Objectives of Physical Education Development of Physical Education in India – Post Independence Changing Trends in Sports- playing surface, wearable gears and sports equipment, technological advancements Career Options in Physical Education Khelo-India and Fit-India Program
May	Unit II Olympism Value Education 1. Olympism – Concept and Olympics Values (Excellence, Friendship & Respect) 2. Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind 3. Ancient and Modern Olympics 4. Olympics - Symbols, Motto, Flag, Oath, and Anthem 5. Olympic Movement Structure - IOC, NOC, IFS, Other members
July	Unit III Yoga Meaning & Importance of Yoga Introduction to Ashtanga Yoga Introduction to Yogic Kriyas (Shat Karma) Pranayama and its types. Active Lifestyle and stress management through Yoga
August	Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang) Concept of Disability and Disorder Types of Disability, its causes & nature (Intellectual disability, Physical disability) Disability Etiquette
September	Unit – IV Aim & Objective of Adaptive Physical Education Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator) First Term Exam

<p>October</p>	<p>Unit V Physical Fitness, Health and Wellness Meaning and Importance of Wellness, Health and Physical Fitness Components/Dimensions of Wellness, Health and Physical Fitness Traditional Sports & Regional Games for promoting wellness Leadership through Physical Activity and Sports Introduction to First Aid – PRICE</p> <p>Unit VI Test, Measurement & Evaluation 1. Define Test, Measurements and Evaluation. 2. Importance of Test, Measurements and Evaluation in Sports. 3. Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site) 4. Somato Types (Endomorphy, Mesomorphy & Ectomorphy) 5. Measurements of health-related fitness</p>
<p>November</p>	<p>Unit VII Fundamentals of Anatomy, Physiology in Sports 1. Definition and importance of Anatomy and Physiology in Exercise and Sports. 2. Functions of Skeletal System, Classification of Bones, and Types of Joints. 3. Properties and Functions of Muscles. 4. Structure and Functions of Circulatory System and Heart. 5. Structure and Functions of Respiratory System.</p> <p>Unit VIII Fundamentals of Kinesiology and Biomechanics in Sports 1. Definition and Importance of Kinesiology and Biomechanics in Sports. 2. Principles of Biomechanics 3. Kinetics and Kinematics in Sports</p>
<p>December</p>	<p>Unit VIII Fundamentals of Kinesiology and Biomechanics in Sports 4. Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation 5. Axis and Planes – Concept and its application in body movements</p> <p>Unit IX Psychology & Sports 1. Definition & Importance of Psychology in Physical Education & Sports; 2. Developmental Characteristics at Different Stages of Development; 3. Adolescent Problems & their Management; 4. Team Cohesion and Sports; 5. Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness</p>
<p>January</p>	<p>Unit X Training and Doping in Sports Concept and Principles of Sports Training Training Load: Over Load, Adaptation, and Recovery 3. Warming-up & Limbering Down – Types, Method & Importance 4. Concept of Skill, Technique, Tactics & Strategies Concept of Doping and its disadvantages</p> <p>Revision</p>
<p>February</p>	<p>Revision + Practical</p>
<p>March</p>	<p>Annual Exam</p>

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Physics	
Months	Topic
April	Basic Mathematics for Physics Unit 1: Physical World and Measurement Chapter–2: Units and Measurements Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications.
May	Unit 2: Kinematics Chapter–3: Motion in a Straight Line Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and non-uniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).
June	Summer Vacation
July	Chapter–4: Motion in a Plane Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion.
August	Unit 3: Laws of Motion Chapter–5: Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). Unit 4: Work, Energy and Power Chapter–6: Work, Energy and Power Work done by a constant force and a variable force; kinetic energy, work energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: non- conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.
September	Unit 5: Motion of System of Particles and Rigid Body Chapter–7: System of Particles and Rotational Motion Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).

<p>October</p>	<p>Unit 6: Gravitation Chapter–8: Gravitation Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite.</p> <p>Unit 7: Properties of Bulk Matter Chapter–9: Mechanical Properties of Solids Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.</p>
<p>November</p>	<p>Chapter–10: Mechanical Properties of Fluids Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.</p> <p>Chapter–11: Thermal Properties of Matter Heat Temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.</p>
<p>December</p>	<p>Unit 8: Thermodynamics Chapter–12: Thermodynamics Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes.</p> <p>Unit IX: Behavior of Perfect Gases and Kinetic Theory of Gases Chapter–13: Kinetic Theory Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number. Unit X: Oscillations and Waves 26 Periods</p>
<p>January</p>	<p>Chapter–14: Oscillations Periodic Motion Time period, frequency, displacement as a function of time, periodic functions and their application. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.</p> <p>Chapter–15: Waves & Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.</p>
<p>February</p>	<p>Revision + Practical</p>
<p>March</p>	<p>Annual Exam</p>

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Music	
Months	Topic
April	Practical Work – 12 Swars preparation and Saptak Unit – 1 Brief of the following Nada, Shruti, Swar, Saptak, Thoat
May	Unit – 1 Brief of the following Jati, Laya, Tala , Margi, Desi, Raga Practical preparation of Unit 1 and Revision UT – 1
June	Summer Vacation
July	Unit – 2 Brief History of the following Dhrupad, Khayal & Tarana Unit – 3 (3.1) Brief study of Musical Elements in Natya Shastra UT – 2
August	Unit – 3 (3.2) Life sketch and contribution of Tansen, V.N. Bhatkhande and U.D. Paluskar
September	Unit – 4 (4.2) Knowledge of the structure of Tanpura & Practical Preparation UT – 3
October	Unit – 4 (4.1) Description of Prescribed Talas along with Tala Notation with Thah, Dagon & Chaugun, Teentala, Ektala, Chautala Term – 1 Exams
November	Unit – 5 (5.1) Critical Study of Prescribed Ragas along with recognizing Ragas from phrases of swaras and elaborating them excluding Raga Jaunpuri
December	(5.2) Ragas Bihag & Bhimpalasi
January	(5.2) Ragas Bhairavi Winter Break
February	Revision of Complete Syllabus
March	Annual Exam

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Class –XI, Syllabus (Session 2023-24), Subject – Accountancy	
Months	Topic
April	Meaning of Accountancy Accounting Terms Accounting Equation
May	Journal Cashbook
June	Summer Vacation
July	Principles Accounting Standard
August	Cycles of Accounting Rule of Accounting Gst
September	Ledger Subsidiary Book
October	Trial Balance Depriciation
November	Financial Statement Financial Statement with Adjustment
December	Bill of Exchange Bank Reconciliation
January	Rectification of Error Single Entry System
February	Revision & Test
March	Annual Exams Revision + Annual Exam

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Business Studies	
Months	Topic
April	Ch – 1 Business, Trade & Commerce
May	Ch – 2 Forms of Business Organisation
June	Summer Vacation
July	Ch – 3 Private, Public and Global Enterprises
August	Ch – 4 Business Services
September	Ch – 5 Emerging modes of Business Ch – 6 Social Responsibilities of Business and Business ethics
October	Ch – 7 Formation of a Company Ch – 8 Sources of Business Finance
November	Ch – 9 Small Business Ch – 10 Internal Trade
December	Ch – 11 International Business
January	Revision & Test
February	Exam
March	

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Fine Arts	
Months	Topic
April	Theory : Pre Historic rock painting
May	Drawing File Work and A Poster
June	Summer Vacation
July	Unit – 1 Practical : Make a poster and Drawing file work Theory : Pre Historic rock painting
August	Unit – 1 Theory : Art of Indus Valley Practical : Make Two poster with specified data and slogan
September	Unit – 2 Theory : Hindu, Buddhist & Jain Art Practical : Drawing file work
October	Unit – 2 Theory : Introduction to Ajanta Location Practical : Make two Illustration
November	Unit – 3 Theory : Artistic aspects of Indian Temple sculpture Practical : Make two poster with specified data and slogan
December	Unit – 3 Theory : Introduction of Indian Bronze Practical : Drawing file work
January	Unit – 3 Theory : Artistic aspects of the indo – Islamic architecture
February	Revision of Syllabus
March	Annual Exams

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Hindi	
Months	Topic
April	घर की याद गजल
May	जनसंचार जामुन का पेड
June	ग्रीष्मावकाश
July	नमक का दारोगा मियाँ नसीरुद्दीन
August	अनुच्छेद लता मंगेशकर – गायिकाओं में बेजोड
September	कबीर के पद मीरा के पद दोहराई
October	रजनी चम्पा काले अक्षर नहीं चीन्हती राजस्थान की रजत बूँदे पत्रकारीय लेखन,
November	भारत माता गलता लोहा
December	भारत माता डायरी लेखन
January	दोहराई
February	दोहराई
March	

निर्धारित पुस्तकें – आरोह भाग-1, वितान भाग-1, रचना अभिव्यक्ति और माध्यम

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Class –XI, Syllabus (Session 2023-24), Subject – Biology	
Months	Topic
April	Ch – 1 The living World Ch – 2 Biological Classification
May	Ch – 3 Plant Kingdom Ch – 4 Animal Kingdom
June	Summer Vacation
July	Ch – 5 Morphology of flowering plants
August	Unit – 2 Ch – 6 Anatomy of Flowering plants Ch – 7 St. Organisation in Animals
September	Unit – 3 Ch – 8 Cell : The Unit of Life Mid Term Revision + Exam
October	Ch – 9 Biomolecules Ch – 10 Cell Cycle and cell division Unit – 4 Ch – 13 Photosynthesis in higher plants Ch – 14 Respiration in Plants
November	Ch – 15 Plant growth and Development Unit – 5 Ch – 17 Breathing and Exchange of gases Ch – 18 Body fluids and circulation Ch – 19 Excretory products and their elimination
December	Ch – 20 Locomotion and Movements Ch – 21 Neural Central and Co-ordination Ch – 22 Chemical Central & co-ordination
January	Revision
February	Final Exam

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – Maths	
Months	Topic
April	Ch – 1 Sets Ch – 5 Complex Number
May	Ch – 2 Relation and Function Ch – 6 In equation
June	Summer Vacation
July	Ch – 8 Binomial Theorem
August	Ch – 7 Permutation and combination
September	Revision + Midterm Exam
October	Ch – 3 T-function Ch – 9 Sequence and Series
November	Ch – 10 St. Line Ch – 11 Conic – Section
December	Ch – 12 3-D Ch – 13 Limits and derivative
January	Ch – 15 Probability + Revision
February	Revision + Exam

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – English	
Months	Topic
April	The Portrait of a Lady (Prose) Photograph (Poem)
May	The Summer of Beautiful White Horse (Prose) Discovering Tut (Prose)
June	Summer Vacation
July	We are not afraid to Die (Prose) Tense, Advertisement
August	The Laburnum Top (Poem) Re-ordering of sentences Speech
October	The Address (Prose) The voice of the Rain (Poem) Childhood (Poem) Note making Debate
November	Mother's Day (Drama) The Adventure (Prose) Father to Son (Poem) Note making, clause
December	Birth (Prose) Silk Road (Prose) The Tale of Melan City (Poem) Poster, Transfromation of Sentences

H.D. SR. SEC. PUBLIC SCHOOL, KHERI (MEHAM)

Class –XI, Syllabus (Session 2023-24), Subject – History	
Months	Topic
March	Ch – 2 Writing and City Life
April	Ch – 2 Writing and City Life Ch – 3 An Empire Across Three Continents
May	Ch – 5 Nomadic Empire
June	Summer Vacation
July	Ch – 6 Three Order
August	Ch – 7 Changing Cultural Traditions
September	Revision for Exam Ch 2, 3, 5, 6
October	Ch – 10 Displacing Indigenous People
November	Ch – 11 Paths to Modernisation
December	Revision Ch – 2, 3, 5, 6
January	Revision Ch – 7, 10, 11
February	Revision + Exam