



Pt. Nagesh Dutt Public School, Ajhara – Lalganj

Session: 2026–27

Academic Syllabus Class IX

Subject : Social Science

Month	Chapters
PART -1 April – May	History: Understanding Social Science Geography: Shaping of the Earth's Surface Political Science: Democracy
July	History: Early Humans and Beginning of Civilisation Political Science : State and Society Economics : Building Blocks in Economics
August	Geography: Atmosphere and Climate Political Science : Elections Economics : The Price Puzzle: What Drives the Market
PART 2 September	Geography: Oceans and Life
October	History: India and the World-I (1900 BCE-1200 CE) Geography: Life on Earth
November	History: Resistance and Resilience (1000 CE – 1700 CE)
December	Economics: Authority
January	Economics : From Ideas to Startups
February	Economics: Smart Ways to Manage Your Finances
March	Revision and Annual Exams

STRUCTURE OF PROJECT FILE

Component	Details / Description
1. Cover Page	Title of the Project, Student Name, Class, Section, Roll No., School Name (NDPS), Session (2026–27)
2. Acknowledgement	Expression of gratitude to school, teacher, parents, and sources of help
3. Certificate (Optional but Recommended)	Certified that the project is original work done by the student under teacher guidance
4. Index	List of topics with page numbers
5. Introduction	Brief overview of the topic, relevance, and purpose of the project
6. Objectives of the Project	Clear aims (what the student wants to study/analyse)
7. Methodology	How the project was completed (survey, research, observation, case study, etc.)
8. Content / Main Body	Detailed explanation of topic with subheadings, diagrams, maps, charts, data, examples
9. Case Study / Field Study	Real-life example, survey data, or practical analysis related to topic
10. Data Analysis / Interpretation	Graphs, tables, charts, comparison, logical analysis of findings
11. Findings / Observations	Key points discovered during project work
12. Conclusion	Final understanding, summary, and learning outcome
13. Suggestions / Solutions	Practical recommendations or solutions (very important for CBSE competency)
14. Bibliography	Books, websites, newspapers, references used

Academic Conclusion :

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Subject : English

Month	Literature (Kaveri)	Grammar	Creative Writing
April – May	How I Taught My Grandmother to Read Poem: Bharat Our Land The Pot Maker	Tenses (Present, Past, Future)	Discursive Passage (Argumentative/Persuasive Essay)
July	Winds of Change Poem: Gift of Grace: Honouring our vocations	Determiners	Diary Entry Case-based factual passage (with visual input- statistical data/chart etc.) of 200-250 words
August	Vitamin – M Poem : Canvas of soil	Modals (Can, Could, Must, etc.)	Story Writing Case-based factual passage (with visual input- statistical data/chart etc.) of 200-250 words
September	Poem: I cannot Remember My Mother	Subject–Verb Agreement	Discursive Passage (Exploratory/Reflective Text)
October	The world of limitless possibilities Poem: Nine Gold Medals	Active & Passive Voice	Dialogue Writing Case-based factual passage (with visual input- statistical data/chart etc.) of 200-250 words
November	Twin Melodies A friend found in music	Reported Speech (Direct & Indirect)	Article Writing Case-based factual passage (with visual input- statistical data/chart etc.) of 200-250 words
December	Carrier of words Poem: Words	Adjectives & Adverbs	Speech Writing
January	Follow that dream	Prepositions	Informal Letter Writing Formal Letter Writing
February	Poem: Believe in yourself (Appendix)	Conjunctions	Discursive Passage (Opinion/Interpretative Piece)

Note : The Assessment of Speaking and Listening Skills (ASL) is an integral component of the Internal Assessment in English for Class IX, carrying a weightage of **05 marks** as prescribed by CBSE.

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Subject : Mathematics

Month	Syllabus
April –	Number System Introduction to rational numbers ☐ Representation of rational numbers on the number line ☐ Density of rational numbers and its proof ☐ Finding rational numbers between any two rational numbers ☐ Decimal representation of rational numbers ☐ Introduction to irrational numbers ☐ Proof of irrationality of $\sqrt{2}$ and $\sqrt{3}$ ☐ The square root spiral
May-	Introduction to Polynomials Algebraic expressions ☐ Definition of a polynomial. ☐ Degree of a polynomial ☐ Introduction to linear polynomials and applications ☐ Exploring linear patterns ☐ Modelling linear growth and linear decay ☐ Linear relationships ☐ Visualising linear relationships ☐ Slope and y-intercept of a line $y = ax + b$
July	Coordinate Geometry Brief history of coordinate geometry ☐ The 2-D Cartesian coordinate system ☐ Distance between two points in the 2-D plane ☐ Midpoint of the line-segment between two points in the 2-D plane
August	Linear Equations in Two Variables Introduction to linear equations in two variables through practical examples ☐ Solution of linear equation in two variables: graphical representation ☐ Slope-intercept form of linear equation in two variables ☐ Drawing graphs of linear equations when x and y assume only certain values ☐ Pair of linear equations in two variables ☐ Graphical method for solving a pair of linear equations in two variables ☐ Nature of solutions: consistency and inconsistency ☐ Algebraic methods of solving a pair of linear equations: substitution and elimination method



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Academic Syllabus Class IX

September	Introduction to Probability Concept of probability and randomness ☐ The probability scale ☐ Empirical probability: analysing statistical data and performing experiments ☐ Theoretical probability: sample space and events ☐ Representing probability through tree diagrams and tables
October	Exploring Algebraic Identities Revisiting algebraic identities ☐ Visualising identities using geometrical models ☐ Factorisation of algebraic expressions using identities ☐ More identities and their applications ☐ Visualising factorisation of quadratic expressions through algebra tiles and without using algebra tiles ☐ Finding new identities ☐ Simplifying rational expressions
November	Circles Practical applications and uses of circles ☐ Definitions related to a circle — centre, diameter, and radius ☐ Chords and the angles they subtend ☐ Midpoints and perpendicular bisectors of chords ☐ Distance of chords from the centre ☐ Subtended angles by an arc ☐ Cyclicity of points
December	Mensuration: Area and Perimeter Perimeter of shapes ☐ Perimeter of a circle: Introduction to Pi and its irrationality ☐ Length of an arc Area of shapes: rectangles, parallelograms, and triangles ☐ Heron's formula ☐ Squaring a rectangle: Proof from Baudhayana's Sulbasutras ☐ Area of a circle: derivation ☐ Area of the sector of a circle ☐ Brahmagupta's formula for area of a cyclic 4-gon ☐ Heron's formula as a special case of Brahmagupta's formula
January	Sequences and Progressions Introduction to sequences



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Academic Syllabus Class IX

	☐ Explicit or general rule of a sequence ☐ Recursive rule of a sequence ☐ Arithmetic Progressions ☐ (AP): nth term, visualising an AP, and practical contexts leading to Aps ☐ Sum of the first n natural numbers ☐ Geometric Progressions (GP): nth term, visualising a GP, and practical contexts leading to GPs ☐ Applications of GP in fractals ☐ Tower of Hanoi puzzle Mensuration: Surface Area and Volume Surface areas and volumes of spheres (including hemispheres) and right circular cones Statistics Graphical representation of data ☐ Measures of central tendency
February	Introduction to Euclid's Geometry: Axioms and Postulates History of geometry ☐ Constructing a square with a given side as described in the Baudhayana's Sulbasutras ☐ Discovering Euclid's definitions ☐ Axioms: Axioms of measurement and rules for geometric objects Lines and Angles Triangles: Congruence Theorems Practical applications of triangles ☐ Proofs of conditions of congruence of triangles ☐ Theorems on triangles 4-gons (Quadrilaterals) Properties of parallelograms ☐ Important theorems related to parallelograms and their proof ☐ Midpoint theorem and its applications
March	Revision & Annual Exam

Note : Lab Activity List is Attached

Month	Lab Activities (Aligned with Syllabus)
April – May	• Represent $\sqrt{2}$, $\sqrt{3}$ on number line using geometric method • Verify laws of exponents using numerical patterns
July	• Rationalisation of denominators using numerical verification • Introduction to polynomials through identification of terms, coefficients, and degree
August	• Verify algebraic identities using paper cutting $((a+b)^2, (a+b)^3)$ • Verify Factor Theorem using numerical examples



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Session: 2026–27

Academic Syllabus Class IX

September	- Plot graph of linear equations and verify straight line nature - Plot points in different quadrants on Cartesian plane
October	- Verify vertically opposite angles using intersecting lines - Verify sum of linear pair equals 180°
November	- Explore angle properties with parallel lines and transversal - Verify triangle congruence (SAS, ASA, SSS) using paper cutting
December	- Verify angle sum property of triangle (180°) - Verify properties of parallelogram (diagonals bisect each other)
January	- Verify properties of circles (perpendicular from center to chord) - Demonstrate that angle at center is twice the angle at circumference
February	- Calculate area using Heron's formula (practical measurement) - Construct bar graph / histogram using real-life data

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Subject : Science

Month	Syllabus (Units → Chapters → Subtopics)
April –	Cell Discovery of cell • Plant and animal cells • Prokaryotic and eukaryotic cells • Cell as a structural and functional unit of life; structure and function of key organelles (nucleus, mitochondria, chloroplast, endoplasmic reticulum, vacuoles, plasma membrane, cell wall) • Permeability of cell membranes • Cellular division and cancer • Recent advancement in cell biology
May-	Tissues Tissues: Introduction and importance • Level of organisation in the living organisms • Plant and animal tissues • Types of plant tissues • Meristematic tissues (types and function of each) • Permanent tissues (types, structure and function of each) • Animal tissues • Overview (epithelial, connective, muscular and nervous tissues — types, structure and function of each) • Elementary idea of musculoskeletal system • Care of musculoskeletal system: injuries, postural care, nutrition and exercise
July	Reproduction Introduction to different forms of reproduction — sexual and asexual • Types of asexual reproduction with examples • Sexual reproduction in flowering plants (flower and its parts, pollination, fertilisation, seed dispersal) • Sexual reproduction in humans: male and female reproductive systems (structure and function, formation of gametes, sperm and egg, fertilisation, pregnancy and development of embryo, menstrual cycle) • Reproductive health and hygiene • Introduction to birth control methods and importance
August	Diversity • Importance of classification • Five kingdoms and their key features with examples • Major division of animals and plants • Binomial nomenclature • Acellular entities: viruses



Pt. Nagesh Dutt Public School, Ajhara – Lalganj

Session: 2026–27

Academic Syllabus Class IX

September	Exploring Mixtures and their Separation Homogeneous and heterogeneous mixtures; - Solutions, suspensions, colloids and their properties - Various ways to express concentration of solutions (mass by mass percentage of a solution, mass by volume percentage of a solution, volume by volume percentage of a solution) - Separation techniques based on the physical properties of components, including crystallisation, distillation, paper chromatography, sublimation, centrifugation and coagulation
October	Structure of an Atom Atoms are the basic units of elements - Atoms consist of subatomic particles - Atomic Models (Thomson's Model, Rutherford's Model, and Bohr's Model) - Distributions of electrons in elements (up to 18 elements) - Symbols - Valency as the combining capacity - Atomic number - Mass number - Isotopes - Isobars
November	Atoms and Molecules Law of conservation of mass - Law of constant proportion - Dalton's Atomic theory - Molecules of elements, Molecules of covalent compounds and their properties - Ions, Ionic compounds and their properties - Writing chemical formulae - Molecular mass - Formula unit mass Earth as a System: Energy, Matter & Life - Earth as interconnected system - Nature of solar energy: solar radiation, electromagnetic spectrum, and speed of light - Solar energy interaction with the Earth's Surface and differential heating of the Earth (the role of the atmosphere and the Earth's surface) - Differential warming of the Earth causes winds - Biogeochemical cycles (water cycle, carbon cycle, nitrogen cycle, oxygen cycle) - Human impact on Earth's system



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Academic Syllabus Class IX

December	Motion Motion — displacement, velocity, acceleration • Graphical representation of motion for an object moving in a straight line in one direction (with constant velocity, and constant acceleration) • Kinematic equations for motion in a straight line with constant acceleration (by graphical method) • Elementary idea of uniform circular motion Force and Laws of Motion Force; balanced and unbalanced forces • Force of friction • Newton's first law of motion • Newton's second law of motion • Newton's third law of motion
January	Work, Energy and Simple Machines Concept of work; work done by a constant force • Work-Energy theorem • Mechanical energy, kinetic and potential energy, and conversion between potential energy and kinetic energy • Conservation of energy • Power • Simple machines and their mechanical advantage (pulley, inclined plane, lever)
February	Sound Production of sound • Propagation of sound (as a longitudinal wave through a medium) • Graphical representation of sound wave • Characteristics of sound wave (wavelength, frequency, time period, amplitude, intensity, speed) Human perception of sound (pitch, loudness) • Propagation of sound in different media (solid, liquid) • Reflection of sound (echo, reverberation), echolocation

Note : Practical List is attached below.

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Science Practicals

S. No.	Experiment / Practical
1(a)	Preparation of a true solution of common salt, sugar and alum
1(b)	Preparation of a suspension of soil, chalk powder and fine sand in water
1(c)	Preparation of a colloidal solution of starch in water and egg albumin/milk in water and distinction on the basis of transparency, filtration and stability
2(a)	Preparation of a mixture using iron filings and sulphur powder
2(b)	Preparation of a compound using iron filings and sulphur powder and distinguishing between mixture and compound based on: appearance, homogeneity/heterogeneity, behaviour towards magnet, behaviour towards carbon disulphide, effect of heat
3(a)	Perform reaction: Iron with copper sulphate solution in water
3(b)	Perform reaction: Burning of magnesium ribbon in air
3(c)	Perform reaction: Zinc with dilute sulphuric acid
3(d)	Perform reaction: Heating of copper sulphate crystals
3(e)	Perform reaction: Sodium sulphate with barium chloride (solutions in water)
4	Preparation of stained temporary mounts of onion peel and human cheek cells; observation and labeled diagrams
5	Identification of Parenchyma, Collenchyma, Sclerenchyma tissues in plants and striped, smooth, cardiac muscle fibres and nerve cells in animals from prepared slides
6	Determination of melting point of ice and boiling point of water
7	Verification of laws of reflection of sound
8	Determination of density of solid (denser than water) using spring balance and measuring cylinder
9	Establishing relation between loss in weight of a solid when immersed in: (a) tap water (b) strongly salty water, with weight of water displaced
10	Determination of speed of a pulse propagated through a stretched string / slinky
11	Verification of the law of conservation of mass in a chemical reaction

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Subject – Hindi

Month	Syllabus
April	गद्य– दो बैलों की कहानी पद्य– पद– रैदास
May	गद्य– क्या लिखूं ? व्याकरण– शब्द निर्माण उपसर्ग प्रत्यय
July	गद्य– संवाद पद्य– राम–लक्ष्मण–परशुराम संवाद – तुलसीदास व्याकरण – संज्ञा
August	पद्य– भारती जय विजय करे– सूर्यकान्त त्रिपाठी निराला व्याकरण – सर्वनाम
September	गद्य– ऐसी बातें भी होती हैं (लता मंगेशकर से इंटरव्यू) व्याकरण– विशेषण
October	पद्य– झांसी की रानी – सुभद्रा कुमारी चौहान व्याकरण – क्रिया
November	गद्य– आखिरी रॉक तक व्याकरण– अर्थ की दृष्टि से वाक्य भेद
December	गद्य– रीढ़ की हड्डी व्याकरण– अलंकार – शब्दालंकार – अनुप्रास, यमक, श्लेष
January	पद्य– घर की याद – भवानी प्रसाद मिश्र रचनात्मक लेखन
February	गद्य– मैं और मेरा देश रचनात्मक लेखन
March	पुनरावृत्ति

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Subject : Artificial Intelligence (417)

Month	Syllabus Coverage
April	Part A: Unit 1 – Employability Skill Unit 2- Communication Skills (Intro, Methods, Perspectives, Writing Skills)
May-	Part A: Unit 2 – Self-Management Skills (Self-Management, Self Analysis, Self Confidence)
July	Part A: Unit 3 – ICT Skills (ICT Intro, Computer System, Peripheral Devices)
August	Part A : Unit 4 – Entrepreneurial Skills (Business Activities, Entrepreneurship) Part B: Subject Specific Skill Part B: Unit 1 – AI Reflection, Project Cycle and Ethics (AI Reflection, AI Project Cycle, Data and Analysis, Data Acquisition, Data Exploration/Data Validation) Part B : Practical: Write a program to take input from user and display it, Program to add two numbers entered by user
September	Part A : Unit 5 – Green Skills (Environment & Natural Resource Conservation, Green Economy) Part B: Unit 1 – (Session 5 to Session 9) AI Reflection, Project Cycle and Ethics (Modelling, Evaluation, Deployment, AI Ethics)
October	Part B : Unit 5 – Introduction to Python (Python Lists, Loops) Part B : Practical: Program to find square and cube of a number, Program to print numbers from 1 to 10
November	Math for AI (Statistics & Probability)
December	Part B : Unit 4 – Introduction to Generative AI (Introduction to Generative AI, Generative AI Tools and Types, History of Generative AI and Ethical Considerations) Part B : Practical: Create a poster or presentation using AI tools,
January	Part B : Unit 2 – Data Literacy (Introduction to Data Literacy, Acquiring Data, Processing and Interpreting Data, Project : Student Performance Over Time)
February	Revision
March	Annual Exam

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Project File :

Topic	Description
SIMPLE AI CHATBOT (KEYWORD BASED)	Accept user prompt , Detect keywords (AI, school, python) , Respond accordingly
QUIZ SYSTEM USING PYTHON	Store questions in lists , Ask user , Check answers , Calculate score
Project 3	Build a Python-based system that stores marks of multiple students, calculates total, percentage, grade, subject-wise topper, class average, and identifies below-average students.
Build a Python program that stores attendance records of students and:	calculates attendance % , identifies students below threshold , marks eligible / not eligible , shows monthly summary , displays attendance warnings



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Academic Syllabus Class IX

Subject : Sanskrit

Month	Chapter
April	सत्यं शिवं सुन्दरं संस्कृतम् वर्णविचारण रशिक्षा -
May	सुखस्य मूलं धर्मः धर्मस्य मूलम् अर्थः अन्वयः
July	आत्मवत्सर्वभूतेषु यः पश्यति सः पण्डितः समासः
August	न खलु वयसतेजसो हेतुः वाच्यम्
September	एषा सा कृतकबुद्धिः मानवबुद्धे सहकरी शब्दरूपाणि
October	मनःपूतं समाचरेत् धातुरूपाणि
November	उपायं चिन्तयेत् प्राज्ञस्तथापायं च चिन्तयेत्
December	अन्नाद् आनन्दं प्रति
January	कृतं प्रतिकृतं भूयादेष धर्मः सनातनः
February	णमो अरिहंताणम
March	पुनरावृत्ति

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