OBJECTIVES:

- The overall aims of teaching Literature and language are:
  a) to enable the learner to communicate effectively and appropriately in real life situations.
  b) to use English effectively for study purposes across the curriculum.
  c) To develop and integrate the use of four language skills i.e- listening, speaking, reading and writing.
  d) to develop interest in appreciation of literature.
  e) to revise and reinforce structures already learnt.
  f) to express ideas in clear and grammatically correct English, using appropriate punctuation and cohesion devices.
  g) to enable the students to understand, interpret, evaluate and respond to the following features in a literary text:
     i. Character as revealed through appearance, background, actions, expressions, etc.
     ii. Plot/ story/ theme, emerging through main events.
     iii. Setting, as seen through time and place.
     iv. Form.
  h) to include a novel/ long reading text to encourage class room interaction, class discussion, etc.

TEXT BOOKS

1. Moments NCERT- English Supplementary Reader
2. Beehive NCERT- Textbook In English

MONTH WISE SYLLABUS BREAK-UP

APRIL: (21)

- The Fun They Had.(B)
- The Road Not Taken (B)
- The Lost Child (M)
- Diary Writing
- Tenses
- Prepositions
- Identification of Types of Sentences (Simple, Compound & Complex)

MAY: (10)

- Wind (B)
- The Adventures of Toto (M)
- Modals
JULY: (23)

- The Sound of Music (B)
- Rain on the Roof (B)
- The Little Girl (B)
- The Lake isle of Innisfree (B)
- Ishwaran the Story (M)
- The Kingdom of Fools (M)
- Writing Article.
- Integrated grammar Practice

AUGUST: (24)

- A Truly Beautiful Mind (B)
- The Snake and The Mirror (B)
- A Legend of the Northland (B)
- My Childhood (B)
- The Happy Prince (M)
- Reported Speech
- Reordering of words and Phrases

SEPTEMBER: (12)

- Active and Passive Voice
- Revision for MID TERM

OCTOBER: (18)

- Packing (B)
- No Men are Foreign (B)
- Weathering the storm in Ersama (M)
- Clauses
- Determiners

NOVEMBER: (23)

- The Duck and the Kangaroo (B)
- Reach or the Top (B)
- On Killing a Tree (B)
- The last Leaf (M)
- A House is not a Home (M)
- Story Writing
- Practice of Determiners, Tenses & Reported Speech

DECEMBER: (22)

- The bond of Love (B)
- Kathmandu (B)
- The Snake Trying (B)
- The Accidental Tourist (M)
- Active & Passive voice
- Reported Speech

**JANUARY: (14)**
- A Slumber did my Spirit Seal (B)
- If I were You (B)
- The Beggar (M)
- Diary Entry
- Integrated Grammar Practice

**FEBRUARY: (22)**
- Revision for Annual Examination

**MARCH: (6)** Revision for Annual Examination

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**ENGLISH LANGUAGE & LITERATURE**
**EXAM WISE SYLLABUS BREAK- UP**
**CLASS IX 2018 - 19**

**FIRST PERIODIC TEST**
- The Fun They Had. (B)
- The Road Not Taken (B)
- The Lost Child (M)
- Diary Writing
- Tenses
- Prepositions

**MID TERM EXAMINATION**
- The Fun They Had. (B)
- The Road Not Taken (B)
- The Lost Child (M)
- Wind (B)
- The Adventures of Toto (M)
- The Sound of Music (B)
- Rain on the Roof (B)
- The Little Girl (B)
- The Lake isle of Innisfree (B)
- Ishwaran the Story (M)
- The Kingdom of Fools (M)
- A Truly Beautiful Mind (B)
• The Snake and The Mirror (B)
• A Legend of the Northland (B)
• My Childhood (B)
• The Happy Prince (M)

WRITING SKILL
• Article Writing
• Story Writing
• Diary Entry

Grammar
• Tenses
• Prepositions
• Identification of Types of Sentences (Simple, Compound & Complex)
• Modals
• Reported Speech
• Reordering of words and Phrases
• Active and Passive Voice

SECOND PERIODIC TEST
• Packing (B)
• No Men are Foreign (B)
• Weathering the storm in Ersama (M)
• Clauses
• Determiners
• Article Writing

ANNUAL EXAMINATION

100 % Syllabus

SYLLABUS BREAK UP

SUBJECT: SCIENCE

COURSE BOOK : 1. Science - Textbook for class IX - NCERT Publication

2. Laboratory Manual(Science)-Class IX (Together With Science)

REFERENCE BOOKS

1. Chemistry for class 9 by Lakhmir Singh & Manjeet Kaur
Science is a body of knowledge based on experiment, observation and inference, which is judgment based on evidence. Through science teaching, children are required to develop certain scientific ways of thinking as they work. The subject of science plays an important role in developing well-defined abilities in cognitive, affective and psychomotor domains in children. It augments the spirit of enquiry, creativity, objectivity and aesthetic sensibility.

**OBJECTIVES**

Science teaching aims to realise the following general objectives. It enables the learners to

- know the facts and principles of science and its applications, consistent with the stage of cognitive development.
- acquire the skills and understand the methods and processes that lead to generation and validation of scientific knowledge.
- develop intellectual and practical scientific skills.
- motivate to apply basic scientific principles in all sciences.
- acquire knowledge about health, environment and safety practices and behave accordingly.
- realise that some natural resources can be depleted and make them aware of the role of science in sustaining these resources.
- use scientific knowledge and skills in novel situations especially in everyday life.
- emphasize the role of scientists in the advancement of human kind.
- develop scientific curiosity and orientation toward scientific research.
- work independently and cooperatively in solving scientific problems.

**MONTHWISE SYLLABUS BREAK UP**

**APRIL**

**PHYSICS CHAPTER 8: Motion**

Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, derivation of equations of motion by graphical method; elementary idea of uniform circular motion.

**CHEMISTRY CHAPTER: -1 (MATTER IN OUR SURROUNDINGS)**
Matter- Nature and Behaviour; Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state-melting (absorption of heat), freezing, condensation, sublimation, evaporation, cooling by evaporation

**LAB ACTIVITIES**

1. To carry out the following reactions and classify them as physical or chemical changes. a. Iron with copper sulphate solution in water.
   
b. Burning of magnesium in air. c. Zinc with dilute sulphuric acid
   
d. Heating of copper sulphate e. Sodium sulphate with barium chloride in the form of their solutions in water.
2. To separate the components of a mixture of sand, common salt and ammonium chloride (or camphor) by sublimation.

**BIOLOGY CHAPTER-5 (THE FUNDAMENTAL UNIT OF LIFE)**

Cell - Basic Unit of life: Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, nucleus, chromosomes - basic structure.

**LAB ACTIVITIES**

1. a) To prepare stained temporary mount of onion peel and to record observations and draw their labelled diagram.

**MAY**

**PHYSICS CHAPTER 9 Force and Newton’s laws**: Force and Motion, Newton’s Laws of Motion, Action and Reaction forces.

**LAB ACTIVITY**

1. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.

**CHEMISTRY CHAPTER-1 (MATTER IN OUR SURROUNDINGS) contd.**

**CHAPTER -2 (IS MATTER AROUND US PURE)**

Heterogeneous and homogeneous mixtures, Colloids and suspensions, separation techniques.

**LAB ACTIVITY**

3. To determine the melting point of ice and the boiling point of water.
BIOLGY \ CHAPTER-5 (THE FUNDAMENTAL UNIT OF LIFE) contd.

Cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus.

LAB ACTIVITIES

1. (b) To prepare stained temporary mount of human cheek cells and to record observations and draw their labelled diagram.

JULY

PHYSICS \ CHAPTER 9 \ Force and Newton\'s laws (Contd...) : Inertia of a body, Inertia and mass, Momentum, Force and Acceleration. Elementary idea of conservation of Momentum.

PHYSICS Work, energy and power: Work done by a Force, Energy, power.

LAB ACTIVITIES

2. (a) Establishing the relation between the loss in weight of a solid when fully immersed in tap water

CHEMISTRY \ CHAPTER : 2 ( IS MATTER AROUND US PURE) contd.

LAB ACTIVITY

4. To prepare a) a true solution of common salt, sugar and alum b) a suspension of soil, chalk powder and fine sand in water c) a colloidal of starch in water and egg albumin in water and distinguish between these on the basis of i) transparency ii) filtration criterion iii) stability

BIOLOGY \ CHAPTER-6 (TISSUES)

Tissues, Organs, Organ System, Organism, Structure and functions of animal and plant tissues (four types in animals; meristematic and permanent tissues in plants.

LAB ACTIVITIES

2. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides. Drawing of their labelled diagrams.

AUGUST

PHYSICS \ CHAPTER 11 Work, energy and power (Contd...) : Kinetic and Potential energy; Law of conservation of energy.


LAB ACTIVITY

2. (b) Establishing the relation between the loss in weight of a solid when fully immersed in strongly salty water, with the weight of water displaced by it by taking at least two different solids.
CHEMISTRY CHAPTER : 2( IS MATTER AROUND US PURE) contd.

Nature of matter: Elements, compounds & mixtures, Physical and chemical changes

LAB ACTIVITY

5. To prepare a) a mixture b) a compound using iron filings and sulphur powder and distinguish between these on the basis of:

i. appearance i.e., homogeneity and heterogeneity ii. behaviour towards magnet iii. behaviour towards carbon disulphide as a solvent. iv. effect of heat.

BIOLOGY CHAPTER-15(IMPROVEMENT IN FOOD RESOURCES)

Plant and animal breeding and selection for quality improvement and management; use of fertilizers, manures; protection from pests and diseases; organic farming.

SEPTEMBER

REVISION FOR MID TERM EXAMS

OCTOBER

PHYSICS CHAPTER 10 Gravitation: (Contd...) Acceleration due to Gravity; Mass and Weight; Free fall.

Floatation: Thrust and Pressure. Archimedes’ Principle.

LAB ACTIVITY

3. Determination of the speed of a pulse propagated through a stretched string/slinky(helical spring).

CHEMISTRY CHAPTER : CHAPTER-3 (ATOMS & MOLECULES)

Particle nature, basic units : Atoms and molecules. Laws of chemical combination,

Atomic and molecular masses; Valency.; Chemical formula of common compounds,Mole Concept : Relationship of mole to mass of the particles and numbers.

LAB ACTIVITY
6. To verify the law of conservation of mass in a chemical reaction.

**BIOLOGY  CHAPTER-13 (WHY DO WE FALL ILL?)**

Health and Diseases : Health and its failure. Infectious and Non-infectious diseases, their causes and manifestation. Diseases caused by microbes (Virus, Bacteria and Protozoans) and their prevention.

**LAB ACTIVITIES**

3. To study the external features of root, stem, leaf and flower of monocot and dicot plants.

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**NOVEMBER**

**PHYSICS  CHAPTER 10  Floatation(Contd..)** Buoyancy; Elementary idea of Relative Density.

**CHAPTER 12 Sound**: Nature of sound and its propagation in various media, speed of sound, range of hearing in humans.

**LAB ACTIVITY**

4. Verification of the Laws of reflection of sound.

**CHEMISTRY  CHAPTER : 3 (ATOMS& MOLECULES) contd.**

**LAB ACTIVITY**

6. To verify the law of conservation of mass in a chemical reaction.

**BIOLOGY  CHAPTER-13 (WHY DO WE FALL ILL?) contd.**

Principles of treatment and prevention of diseases, Pulse polio programmes.

**CHAPTER-7 (DIVERSITY IN LIVING ORGANISMS)**

Biological Diversity : Diversity of plants and animals - basic issues in scientific naming, basis of classification. Hierarchy of categories / groups, Major groups of plants (salient features) (Bacteria, Thallophyta, Bryophyta, Pteridophyta, Gymnosperms and Angiosperms).

**LAB ACTIVITIES**

4. To study the characteristic of Spirogyra/Agaricus, Moss/Fern, Pinus (either with male or female cone) and an Angiospermic plant. Draw and give two identifying features of groups they belong to.

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**DECEMBER**

**PHYSICS  CHAPTER 12  Sound (Contd..)** Ultrasound; reflection of sound; echo and SONAR. Structure of the Human Ear (Auditory aspect only).

**CHEMISTRY  CHAPTER -4 (STRUCTURE OF ATOM)**

Structure of atom : Electrons, protons and neutrons, Isotopes and isobars.
BIOLOGY  CHAPTER-7 (DIVERSITY IN LIVING ORGANISMS) (contd...)

Major groups of animals (salient features) (Non-chordates upto phyla and chordates upto classes).

CHAPTER-I4 (OUR NATURAL RESOURCES)

Physical resources: Air, Water, Soil.

Air for respiration, for combustion, for moderating temperatures; movements of air and its role in bringing rains across India; Air, water and soil pollution (brief introduction).

LAB ACTIVITIES

5. To observe and draw the given pictures/charts/models-earthworm, cockroach, bony fish and bird. For each organism record: a. one specific feature of its phylum.
   b. one adaptive feature with reference to its habitat.

JANUARY

PHYSICS  CHAPTER 12  Sound: (Contd...) Structure of the Human Ear (Auditory aspect only).

CHEMISTRY  CHAPTER -4 (STRUCTURE OF ATOM) contd.

BIOLOGY  CHAPTER-I4 (OUR NATURAL RESOURCES) contd.


FEBRUARY

REVISION FOR ANNUAL EXAMS

EXAMWISE SYLLABUS BREAKUP

MONDAY TEST 1

CHAPTER 8: Motion

CHAPTER 5: The fundamental unit of life

CHAPTER 1: MATTER IN OUR SURROUNDINGS

MID TERM EXAMINATION

CHAPTER 8: Motion

CHAPTER 9: Force and Newton’s laws
CHAPTER 11: Work, energy and power
CHAPTER 5: The fundamental unit of life
CHAPTER 6: Tissues
CHAPTER 15: Improvement in food resources Lab Activities 1(a),1(b),2.

CHAPTER 1: MATTER IN OUR SURROUNDINGS
CHAPTER 2: IS MATTER AROUND US PURE + Lab Activities 1,2,3,4,5.

MONDAY TEST 2

CHAPTER 10 : Gravitation
CHAPTER :3 ATOMS& MOLECULES
CHAPTER 13: Why do we fall ill?

ANNUAL EXAMINATION

CHAPTER 8: Motion
CHAPTER 9: Force and Newton’s laws
CHAPTER 11: Work, energy and power
CHAPTER 10 : Gravitation
CHAPTER 12 :Sound

CHAPTER: 1 MATTER IN OUR SURROUNDINGS
CHAPTER: 2 IS MATTER AROUND US PURE
CHAPTER: 3 ATOMS& MOLECULES
CHAPTER: 4 STRUCTURE OF ATOM + Lab Activities 1,2,3,4,5,6
CHAPTER 5 :The fundamental unit of life
CHAPTER 6: Tissues
CHAPTER 7: Diversity in living organisms
CHAPTER 13: Why do we fall ill?
CHAPTER 14: Our natural resources
CHAPTER 15: Improvement in food resources + Lab Activities 1(a),1(b),2,3,4,5.

FEBRUARY:

REVISION FOR SA-2 EXAMS

MARCH
EXAMWISE SYLLABUS BREAKUP

MONDAY TEST 1

- CHAPTER: -1 MATTER IN OUR SURROUNDINGS ● Chapter-5 (The fundamental unit of life)

- CHAPTER-8 (MOTION)

MID TERM EXAMINATION

- CHAPTER: -1 MATTER IN OUR SURROUNDINGS

- CHAPTER : 2 IS MATTER AROUND US PURE

- Chapter-5 (The fundamental unit of life)

- Chapter-6 (Tissues)

- Chapter-15 (Improvement in food resources) +Lab Activities 1(a),1(b),2.

- Chapter-8 (Motion)

- Chapter-9 (Force and laws of motion)

- Chapter-10 (Gravitation Page 131-138)

- + Lab Activity 1,2

MONDAY TEST 2

- CHAPTER: 3 ATOMS& MOLECULES

- Chapter-13 (Why do we fall ill?)

- Chapter-11 (Work and Energy)
ANNUAL EXAMINATION

- CHAPTER: -1 MATTER IN OUR SURROUNDINGS
- CHAPTER: 2 IS MATTER AROUND US PURE
- CHAPTER: 3 ATOMS & MOLECULES
- CHAPTER: 4 STRUCTURE OF ATOM + Lab Activities 1, 2, 3, 4, 5.

- Chapter-5 (The fundamental unit of life) • Chapter-6 (Tissues) • Chapter-7 (Diversity in living organisms) • Chapter-13 (Why do we fall ill?) • Chapter-14 (Our natural resources)

- Chapter-15 (Improvement in food resources) + Lab Activities 1(a), 1(b), 2, 3, 4, 5.

- Chapter-8 (Motion)
- Chapter-9 (Force and laws of motion)

- Chapter-10 (Gravitation )
- Chapter-11 (Work and Energy)
Chapter-12 (Sound)

+ Lab Activities 2, 3, 4, 5 & 6

Chapter-10 (Gravitation Page 138-142)

Chapter-11 (Work and Energy)

Chapter-12 (Sound)

+ Lab Activities 1, 2, 3, & 4

**SUBJECT: SOCIAL SCIENCE**

**COURSE BOOKS:**

GEOGRAPHY- India-Land and the People

HISTORY-India and the Contemporary World-I

ECONOMICS-Understanding Economic Development –I

POLITICAL SCIENCE-Democratic Politics I

HISTORICAL AND GEOGRAPHICAL ATLAS (DIAMOND)

**OBJECTIVES:**

1. To develop an understanding of contemporary India with its historical perspective of the basic framework of the goals and policies of national development in independent India, and of the process of change with appropriate connections to world development.

2. To deepen the knowledge about and understanding of India’s environment in its totality, their interactive processes and effects on the future quality of people’s lives.

3. To facilitate the learners to understand and appreciate the diversity in the land and people of the country with its underlying unity.

4. To promote an understanding of the issues and challenges of contemporary India environmental, economic and social, as part of the development process.

5. To help learners understand and cherish the values enshrined in the Indian Constitution and to prepare them for their roles and responsibilities as effective citizens of a democratic society.

**MONTHWISE SYLLABUS BREAK UP**

**APRIL:**

**GEOGRAPHY:**

CHAPTER-1: India-Size and Location

**HISTORY:**

CHAPTER-1: The French Revolution
ECONOMICS: CHAPTER 1: The economic story of Palampur

POLITICAL SCIENCE: CHAPTER- 2: Why Democracy?

MAY
GEOGRAPHY: Chapter-1: India : Size and Location
CHAPTER -2: Physical features of India
HISTORY: CHAPTER -1: The French Revolution
POLITICAL SCIENCE: CHAPTER -2 : Why Democracy? (Cont.)

JULY
GEOGRAPHY: CHAPTER -2: Physical features of India (Contd.)
HISTORY: CHAPTER -1: The French Revolution
POLITICAL SCIENCE: CHAPTER -3 : Designing of Democracy in India

AUGUST
GEOGRAPHY: CHAPTER -3: Drainage
ECONOMICS: CHAPTER -2: People as a resource

SEPTEMBER
REVISION FOR MID TERM EXAMS
GEOGRAPHY: CHAPTER -3: Drainage (contd.)
CHAPTER -3: The Rise of Nazism
ECONOMICS: CHAPTER -2: People as a resource

OCTOBER
GEOGRAPHY: CHAPTER -4: Climate
HISTORY: CHAPTER -3 : The Rise of Nazism
POLITICAL SCIENCE: CHAPTER -4: Electoral politics in Democracy (An Introduction)

NOVEMBER
GEOGRAPHY: CHAPTER -4: Climate
HISTORY: CHAPTER -3: The Rise of Nazism
POLITICAL SCIENCE: CHAPTER -4: Electoral politics in Democracy.

DECEMBER
GEOGRAPHY: CHAPTER -5: Natural wildlife and vegetation
HISTORY: CHAPTER -6: Peasants and farmers.
POLITICAL SCIENCE: CHAPTER -5: Institutions of Parliamentary Democracy
CHAPTER –6: Citizens rights in Democracy

JANUARY
GEOGRAPHY: CHAPTER -6: Population
HISTORY: CHAPTER -6: Peasants and farmers.
ECONOMICS: Chapter-4: Food Security in India

FEBRUARY
GEOGRAPHY: CHAPTER -6: Population (contd.)
HISTORY: CHAPTER -6: Peasants and farmers.
ECONOMICS: CHAPTER- 4 : Food security in India

REVISION FOR ANNUAL EXAMS MARCH ANNUAL EXAMS
EXAMWISE SYLLABUS BREAKUP

PERIODIC TEST 1

GEOGRAPHY:  CHAPTER-1: India-Size and Location
HISTORY:      CHAPTER-1: The French Revolution
ECONOMICS:    CHAPTER 1: The economic story of Palampur
POLITICAL SCIENCE:  CHAPTER -2: Why Democracy?

MID TERM EXAMINATIONS

GEOGRAPHY:  CHAPTER-1: India-Size and Location
             CHAPTER -2: Physical features of India
             CHAPTER -3: Drainage
HISTORY:     CHAPTER -1: The French Revolution
             CHAPTER -2: Socialism in Europe and the Russian revolution
POLITICAL SCIENCE:  CHAPTER -2 : Why Democracy?
                     CHAPTER -3 : Designing of Democracy in India
ECONOMICS:    CHAPTER 1: The economic story of Palampur
             CHAPTER -2: People as a resource

PERIODIC TEST 2

GEOGRAPHY:  CHAPTER -4: Climate
HISTORY:     CHAPTER -3: The rise of Nazism
POLITICAL SCIENCE:  CHAPTER -4: Electoral politics in Democracy
ECONOMICS :  CHAPTER : 3 : Poverty as a challenge
ANNUAL EXAMINATIONS: Entire SYLLABUS

SUBJECT-MATHEMATICS

OBJECTIVES:

The broad objectives of teaching of Mathematics at secondary stage are to help the learners to:

• consolidate the Mathematical knowledge and skills acquired at the upper primary stage;

• acquire knowledge and understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles and symbols and underlying processes and skills;

• develop mastery of basic algebraic skills;

• develop drawing skills;

• feel the flow of reason while proving a result or solving a problem;
• apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method;

• to develop positive ability to think, analyze and articulate logically;

• to develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases;

• to develop necessary skills to work with modern technological devices such as calculators, computers, etc.

• to develop interest in mathematics as a problem-solving tool in various fields for its beautiful structures and patterns, etc.

• to develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics;

• to develop interest in the subject by participating in related competitions;

• to acquaint students with different aspects of mathematics used in daily life;

• to develop an interest in students to study mathematics as a discipline.

REFERENCE BOOKS:

1  Mathematics Book class IX   R.D Sharma

2  U-LIKE SAMPLE PAPERS   ............

APRIL

CHAPTER 1- NUMBER SYSTEM

• Introduction

• Irrational numbers

• Real numbers and their decimal expansion

• Representing real numbers on the number line

• Operations on real numbers

• Laws of exponents for real numbers
• Summary

CHAPTER 2- POLYNOMIALS
• Introduction
• Polynomials in one variable
• Zeroes of a polynomial
• Remainder theorem
• Factorisation of polynomials
• Algebraic identities
• Summary

MAY

CHAPTER 3- COORDINATE GEOMETRY
• Introduction
• Cartesian system
• Plotting a point in the plane if its coordinates are given

CHAPTER 5- INTRODUCTION TO EUCLID’S GEOMETRY
• Introduction
• Euclid’s Definitions, Axioms and Postulates
• Equivalent version of Euclid’s fifth postulate
• Summary

SUBJECT ENRICHMENT ACTIVITY
LAB MANUAL ACTIVITIES 1and3

JULY

CHAPTER 6-LINES AND ANGLES
• Introduction
• Basic terms and definitions
• Intersecting lines and non-intersecting lines
• Pairs of angles
• Parallel lines and a transversal
• Lines parallel to the same line
• Angle sum property of a triangle
• Summary

CHAPTER 7- TRIANGLES

• Introduction
• Congruence of triangle
• Criteria for congruence of triangle
• Some properties of a triangle
• Some more criteria for congruence of triangle
• Inequalities in a triangle
• Summary

AUGUST

CHAPTER 12- HERON’S FORMULA

• Introduction
• Area of a triangle – by Heron’s Formula
• Application of Heron’s Formula in finding areas of quadrilaterals
• Summary

REVISION OF SA 1 SYLLABUS AND MOCK TEST

SUBJECT ENRICHMENT ACTIVITY

LAB MANUAL ACTIVITIES 2 and 4

SEPTEMBER

REVISION OF MID TERM SYLLABUS

MID TERM EXAMS

TERM II

SEPTEMBER
CHAPTER 11-CONSTRUCTIONS

• Introduction
• Basic construction of angles

OCTOBER

CHAPTER 11-CONSTRUCTIONS CONTINUED

• Some construction of triangles
• Summary

CHAPTER 4- LINEAR EQUATIONS IN TWO VARIABLES

• Introduction
• Linear equations
• Solutions of a linear equation
• Graph of a linear equation in two variables
• Equation of lines parallel to x-axis and y-axis
• Summary

CHAPTER 13- SURFACE AREA AND VOLUMES

• Introduction
• Surface area of a cuboid and a cube
• Surface area of a right circular cylinder
• Surface area of a right circular cone
• Surface area of a sphere

SUBJECT ENRICHMENT ACTIVITY

LAB MANUAL ACTIVITY 5

NOVEMBER

CHAPTER 13- SURFACE AREA AND VOLUMES CONTINUED

• Volume of a cuboid
• Volume of a cylinder
• Volume of a right circular cone
• Volume of a sphere
• Summary

CHAPTER 14- STATISTICS
• Introduction
• Collection of data
• Presentation of data
• Graphical representation of data
• Measure of central tendency
• Summary

CHAPTER 15- PROBABILTY
• Introduction
• Probability – an experimental approach
• Summary

SUBJECT ENRICHMENT ACTIVITY
LAB MANUAL ACTIVITY 8

DECEMBER

CHAPTER 10-CIRCLES
• Introduction
• Circles and its related terms : A review
• Angle subtended by a chord at a point
• Perpendicular from the centre to a chord
• Circle through three points
• Equal chords and their distances from the centre
• Angle subtended by an arc of a circle
• Cyclic quadrilaterals
• Summary

CHAPTER 8-QUADRILATERALS
- Introduction
- Angle sum property of a quadrilateral
- Types of quadrilaterals
- Properties of a parallelogram
- Another condition for a quadrilateral to be a parallelogram
- The mid-point theorem
- Summary

**SUBJECT ENRICHMENT ACTIVITY**

LAB MANUAL ACTIVITIES 6, 7, 9 and 10

**JANUARY**

**CHAPTER 9- AREA OF PARALLELOGRAMS AND TRIANGLE**

- Introduction
- Figures on the same base and between the same parallels
- Parallelogram on the same base and between the same parallels
- Triangles on the same base and between the same parallels
- Summary

**FEBRUARY**

**REVISION OF WHOLE SYLLABUS AND ANNUAL EXAMINATION**

**EXAM WISE SYLLABUS BREAK UP**

- **PERIODIC TEST 1** — CHAPTER 1- NUMBER SYSTEM
  - CHAPTER 2- POLYNOMIAL
- **MID TERM EXAMINATION** — CHAPTER 1- NUMBER SYSTEM
  - CHAPTER 2- POLYNOMIAL
CHAPTER 3- COORDINATE GEOMETRY
CHAPTER 5- INTRODUCTION TO EUCLID’S GEOMETRY
CHAPTER 6- LINES AND ANGLES
CHAPTER 7- TRIANGLES
CHAPTER 12- HERON’S FORMULA

PERIODIC TEST 2 --

CHAPTER 4- LINEAR EQUATIONS IN TWO VARIABLES
CHAPTER 13- SURFACE AREA AND VOLUME

ANNUAL EXAMINATION

WHOLE SYLLABUS CHAPTER 1 TO 15
कक्षा - नवमी  
विषय - हिन्दी  

पाठ्यपुस्तक - स्पर्श भाग 1 - NCERT  
संचयन भाग 1 - NCERT  
व्याकरण परिचय (कोर्स बी) - Full Marks Pvt. Ltd.

अभ्यास हेतु अतिरिक्त पुस्तकें -  
1. U-Like – मॉडल टेस्ट पेपर्स (अभ्यास कार्य प्रप्त)

शिक्षण उद्देश्य -  
• दैनिक जीवन में हिंदी में समझने-बोलने के साथ-साथ लिखने की क्षमता का विकास करना।  
• हिंदी के किशोर साहित्य, अखबार व पत्रिकाओं को पढ़कर समझ पाना और उसका आनंद उठाने की क्षमता का विकास करना।  
• औपचारिक विषयों और संदर्भों में बातचीत में भाग ले पाने की क्षमता का विकास करना।  
• हिंदी के जुराए अपने अनुभव संसार को लिखकर सहज अभिव्यक्ति कर पाने में सक्षम बनाना।  
• संचार के विभिन्न माध्यमों (प्रिंट और इलेक्ट्रॉनिक) में प्रयुक्त हिंदी के विभिन्न रूपों को समझने की योग्यता का विकास करना।  
• कक्षा में बहुभाषिक, बहुसंस्कृतिक संदर्भों के प्रति संवेदनशील सकारात्मक सोच बनाना।  
• अपनी मानुषीयता और परिवेशगत भाषा को साथ रखकर हिंदी की संरचनाओं की समझ बनाना।

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शिक्षण उद्देश्य -
• छात्रों को संस्कृत पढ़न, वाचन तथा विचारों की अभिव्यक्ति के लिए प्रेरित करना।
• विश्वव्यवस्था की भावना को जागृत करना।
• श्लोकोच्चारण करना सिखाना।
• भारतीय संस्कृति से अवगत कराना।
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विषय संवर्धनम् – परियोजना कार्यम्
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