

CLASS IX
SYLLABUS OF ANNUAL EXAMINATION 2023-24

ENGLISH

Text Books: Interact in English Series by CBSE

- Main Course Book (Revised Edition)
- Literature Reader (Revised Edition)
- Workbook (Revised Edition)

Literature Reader

Prose

1. How I Taught My Grandmother to Read
2. A Dog Named Duke
3. The Man Who Knew Too Much
4. Keeping It from Harold
5. Best Seller

Poetry

1. The Brook
2. The Road Not Taken
3. The Solitary Reaper
4. The Seven Ages
5. Oh, I Wish I'd Looked After Me Teeth
6. Song of The Rain

Drama

1. Villa for Sale
2. The Bishop's Candlesticks

Main Course Book

- Unit 1- People
- Unit 2- Adventure
- Unit 3- Environment
- Unit 4- The Class IX Radio and Video Show
- Unit 5- Mystery
- Unit 6- Children
- Unit 7- Sports and Games

Workbook

1. Unit-1: Verb Forms
2. Unit-2: Determiners
3. Unit-3: Future Time Reference

4. Unit-4: Modals
5. Unit-5: Connectors
6. Unit-6: The Passive
7. Unit-7: Reported Speech
8. Unit-8: Prepositions

Writing Skills

1. Paragraph Writing
2. Dialogue Writing
3. Notice Writing
4. Informal Letter Writing

हिंदी (बी)

पाठ्य पुस्तकें :-

1. स्पर्श (भाग-1) एन.सी.ई.आर.टी.
2. संचयन (भाग-1) एन.सी.ई.आर.टी.
3. हिंदी व्याकरण कोर्स 'बी' 9 रचना सागर एडुकेशनल पब्लिशर्स (अभ्यास कार्यपुस्तिका सहित)

पाठ्य पुस्तक- स्पर्श (भाग-1)

गद्य खंड

1. दुख का अधिकार
2. एवरेस्ट : मेरी शिखर यात्रा
3. तुम कब जाओगे, अतिथि
4. वैज्ञानिक चेतना के वाहक : चंद्रशेखर वेंकट रामन्
5. शुक्रतारे के समान

पद्य खंड

1. पद
2. दोहे
3. गीत-अगीत
4. अग्निपथ
5. (i) नए इलाके में
(ii) खुशबू रचते हैं हाथ

सहायक पुस्तक- संचयन (भाग-1)

1. गिल्लू
2. स्मृति
3. कल्लू कुमार की उनाकोटी
4. मेरा छोटा-सा निजी पुस्तकालय

व्याकरण

1. शब्द और पद
2. अनुस्वार, अनुनासिक
3. उपसर्ग, प्रत्यय
4. स्वर संधि
5. विराम-चिह्न
6. अर्थ की दृष्टि से वाक्य-भेद

लेखन

1. अनुच्छेद-लेखन
2. अनौपचारिक पत्र - लेखन
3. चित्र-वर्णन
4. संवाद-लेखन

अपठित-गद्यांश

FRENCH

Textbook: Entre Jeunes Class IX(CBSE)

Leçon-1: La famille

Leçon-2: Au lycée

Leçon-3: Une journée de Pauline

Leçon-4: Les saisons

Leçon-5: Les voyages

Leçon-6: Les loisirs et les sports

Leçon-7: L'argent de poche

Leçon-8: Faire des achats

Section -A: Reading Section

One unseen prose passage (factual / descriptive) (150 words) (with a picture/ diagrammatically represented data)

Section -B: Writing Section

One long composition (Informal letter) (80 words)

Two short compositions: (recipe/ message/ postcard/ description of a person with visual input and clues) (30 -35 words)

Section-C Grammar Section

Demonstrative Adjectives

Verbs (présent, futur proche , futur simple , pronominal verbs, passé composé, impératif, imparfait)

Question formation (excluding interrogative adjectives and pronouns)

Negatives

Personal pronouns

Simple relative pronouns

Section-D: Culture and Civilization

Questions based on textbook: Lessons 1-8

Short answer questions

MCQ (True or false/ match the following/ fill in the blanks)

MATHEMATICS

Text Book: Text Book for Class IX (NCERT)

Reference Book: Mathematics for Class IX by R.D. Sharma

Unit-I : Number Systems

Chapter-1 : Number Systems

Unit-II : Algebra

Chapter-2 : Polynomials

Chapter-4 : Linear Equations in Two Variables

Unit-III : Coordinate Geometry

Chapter-3 : Coordinate Geometry

Unit-IV : Geometry

Chapter-5 : Introduction to Euclid's Geometry

Chapter-6 : Lines and Angles

Chapter-7 : Triangles

Chapter-8 : Quadrilaterals

Chapter-9 : Circles

Unit-V : Mensuration

Chapter-10 : Heron's Formula

Chapter-11 : Surface Areas and Volumes

Unit-VI : Statistics and Probability

Chapter-12 : Statistics

SCIENCE

Textbook: 1) Science Textbook for Class IX (NCERT)

2) Lab Manual: Science Lab Manual (Arya publications)

3) Science Exemplar Problems- Class – IX (NCERT)

PHYSICS:

Chapter 7: Motion

Chapter 8: Force and Laws of Motion

Chapter 9: Gravitation

Chapter 10: Work and Energy

Chapter 11: Sound

Practicals

1. Verification of the laws of reflection of sound.
2. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
3. Establishing the relation between the loss in weight of a solid when fully immersed in
 - (a) Tap water

- (b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.

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

CHEMISTRY

Chapter 1: Matter in Our Surroundings

Chapter 2: Is Matter Around us Pure?

Chapter 3: Atoms and Molecules

Chapter 4: Structure of the Atom

Practicals

1. Preparation of a true solution, a suspension and a colloidal solution.
2. Preparation of a mixture and a compound using iron powder and sulphur powder.
3. Perform the reactions and classify them.
4. To determine the melting point of ice and boiling point of water.
5. Verification of Laws of Conservation of mass in a chemical reaction.

BIOLOGY:

Chapter 5: The Fundamental Unit of Life

Chapter 6: Tissues

Chapter 12: Improvement in Food Resources

Practicals

1. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labelled diagrams.
2. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, Striped, Smooth and Cardiac muscle fibres and Nerve cells in animals, from prepared slides. Draw their labelled diagrams.

SOCIAL SCIENCE

Textbooks:

History: India and the Contemporary World-I

Geography- Contemporary India-I

Political Science- Democratic Politics- I

Economics- Economics, textbook for class IX

Disaster Management : Together Towards a Safer India – Part II, A textbook on Disaster Management for class –IX (only through project and assignments)

HISTORY

Chapter-1 The French Revolution

Chapter-2 Socialism in Europe and the Russian Revolution

Ch-3 Nazism and the Rise of Hitler

GEOGRAPHY

Chapter-1 India- Size and Location

Chapter-2 Physical Features of India

Chapter-3 Drainage

Ch- 4 Climate

Ch-5 Natural Vegetation and Wildlife (**Map Work only**)

Ch-6 Population

POLITICAL SCIENCE

Chapter-1 What is Democracy? Why Democracy?

Chapter-2 Constitutional Design

Ch-3 Electoral Politics

Ch-4 Working of Institutions

Ch-5 Democratic Rights

ECONOMICS

Chapter-2 People as Resource

Chapter-3 Poverty as a Challenge

Chapter-4 Food Security in India

ARTIFICIAL INTELLIGENCE

Textbook: IT PLANET-Artificial Intelligence (CLASS IX)

UNIT 1: INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI)

Excite

- Session: Introduction to AI and setting up the context of the curriculum

Relate

- Video Session: To watch a video

Purpose

- Session: Introduction to UN Sustainable Development Goals

Possibilities

- Session: Theme-based research and Case Studies

AI Ethics

- Video Session: Discussing about AI Ethics
- Session: AI Bias and AI Access

UNIT 2: AI PROJECT CYCLE**Problem Scoping**

- Session: Introduction to AI Project Cycle

Data Acquisition**Data Exploration**

- Session: Data Visualisation

Modelling

- Session: Modeling
- Session: Decision Tree

UNIT 3: NEURAL NETWORK

- Session: Introduction to neural network

UNIT 4: INTRODUCTION TO PYTHON

- Session: Introducing python programming and its applications

EMPLOYABILITY SKILLS

UNIT 1: COMMUNICATION SKILLS-I

UNIT 2: SELF-MANAGEMENT SKILLS-I

UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS-I

UNIT 4: ENTREPRENEURIAL SKILLS-I

UNIT 5: GREEN SKILLS-I

COMPUTER APPLICATIONS

Textbook: Computer Applications for Class IX Blueprint Education.

Unit 1: Basics of Information Technology

- Computer Systems: characteristics of a computer, components of a computer system – CPU, memory, storage devices and I/O devices
- Memory: primary (RAM and ROM) and secondary memory
- Storage devices: hard disk, CD ROM, DVD, pen/flash drive, memory stick

- I/O devices: keyboard, mouse, monitor, printer, scanner, web camera
- Types of software: system software (operating system, device drivers), application software including mobile applications
- Computer networking: Type of networks: PAN, LAN, MAN, WAN, wired/wireless communication, Wi-Fi, Bluetooth, cloud computers (Private/public)
- Multimedia: images, audio, video, animation

Unit 2: Cyber-safety

- Safely browsing the web and using social networks: identity protection, proper usage of passwords, privacy, confidentiality of information, cyber stalking, reporting cyber crimes
- Malware: Viruses, adware

Unit 3: Office tools

- Introduction to a word processor: create and save a document.
- Edit and format text: text style (B, I, U), font type, font size, text colour, alignment of text. Format paragraphs with line and/or paragraph spacing. Add headers and footers, numbering pages, grammar and spell check utilities, subscript and superscript, insert symbols, use print preview, and print a document.
- Insert pictures, change the page setting, add bullets and numbering, borders and shading, and insert tables – insert/delete rows and columns, merge and split cells.
- Use auto-format, track changes, review comments, use of drawing tools, shapes and mathematical symbols.
- Presentation tool: understand the concept of slide shows, basic elements of a slide, different types of slide layouts, create and save a presentation, and learn about the different views of a slide set – normal view, slide sorter view and handouts.
- Edit and format a slide: add titles, subtitles, text, background, and watermark, headers and footers, and slide numbers.
- Insert pictures from files, create animations, add sound effects, and rehearse timings.
- Spreadsheets: concept of a worksheet and a workbook, create and save a worksheet.
- Working with a spreadsheet: enter numbers, text, date/time, series using auto fill; edit and format a worksheet including changing the colour, size, font, alignment of text; insert and delete cells, rows and columns. Enter a formula using the operators (+, -, *, /), refer to cells, and print a worksheet.

- Use simple statistical functions: SUM (), AVERAGE (), MAX (), MIN (), IF () (without compound statements); embed charts of various types: line, pie, scatter, bar and area in a worksheet.

PAINTING

Textbook: Panaromic Indian Painting

THEORY-

UNIT-1

1. Fundamentals of Visual Arts.

Chapter-1: The Elements of Art

UNIT -II

Methods & Materials of Painting

Chapter- 3 Understanding and appropriate use of tools

Chapter- 4 Understanding and appropriate use of Painting materials – Poster colours, Water colours, Oil pastels, and Pencils.

Chapter- 6 Story of Indian Art

Appreciation of Indian Art covering selected Painting and Architectural Glimpses

Painting – Wizard Dance (Bhimbhetka)

Sculpture – Yaksha & Yakshi at R.B.I New Delhi

Architecture – Sun Temple(Konark , Odisha)

INDIAN FOLK ART

Alpana, Rangoli and Mandana

