

# **SYLLABUS (2021-22)**

## **CLASS-IX**

### **CONTENTS**

<b>S. NO.</b>	<b>SUBJECT</b>
1.	ENGLISH
2.	HINDI
3.	FRENCH
4.	MATHEMATICS
5.	SCIENCE
6.	SOCIAL SCIENCE
7.	COMPUTER SCIENCE
8.	PAINTING
9.	ART EDUCATION

# **ENGLISH**

- Text Books:** 1. **Beehive - Textbook**  
2. **Moments - Supplementary Reader**  
3. **Words and Expressions-I, Workbook**

## **FIRST TERM**

### **Literature Reader (Beehive)**

#### **Prose**

1. The Fun They Had
2. The Sound of Music
3. The Little Girl
4. A Truly Beautiful Mind
5. The Snake and the Mirror
6. My Childhood

#### **Poetry**

1. The Road Not Taken
2. Wind
3. Rain on the Roof
4. The Lake Isle of Innisfree
5. A Legend of the Northland

### **Supplementary Reader (Moments)**

1. The Lost Child
2. The Adventures of Toto
3. Iswaran the Storyteller
4. In the Kingdom of Fools
5. The Happy Prince

### **Workbook (Words and Expressions-I)**

Unit 1-5

#### **Writing Skills**

Informal Letter, Descriptive Paragraph (Person/Place/Event/Diary entry), Story Writing

#### **Grammar**

1. Tenses
2. Determiners
3. Use of Passive Voice
4. Reported Speech
  - a) Commands and requests
  - b) Statements
  - c) Questions

## **SECOND TERM**

### **Literature Reader (Beehive)**

#### **Prose**

1. Packing
2. Reach for the Top
3. The Bond of Love
4. Kathmandu
5. If I Were You

#### **Poetry**

1. No Men Are Foreign
2. The Duck and the Kangaroo
3. On Killing A Tree
4. The Snake Trying
5. A Slumber Did My Spirit Seal

### Supplementary Reader (Moments)

1. Weathering the Storm in Ersama
2. The Last Leaf
3. A House is Not a Home
4. The Accidental Tourist
5. The Beggar

### Workbook (Words and Expressions-I)

Unit 6-11

### Writing Skills

Informal Letter, Descriptive Paragraph (Person/Place/Event/Diary entry), Story Writing

### Grammar

1. Modals
2. Subject-verb concord
3. Clauses
  - a) Noun clauses
  - b) Adverb clauses of condition and time
  - c) Relative clauses
4. Prepositions

Course Structure		
Section		Total Weightage
A	Reading Skills	20
B	Writing Skills with Grammar	20
C	Literature Textbook and Supplementary Reading Text	40
<b>TOTAL</b>		<b>80</b>

## हिंदी - 'ब'

- पाठ्य-पुस्तक – 1. स्पर्श भाग-1 (NCERT)  
 2. संचयन भाग-1 (NCERT)  
 3. व्याकरण सोपान (नवीं कोर्स 'बी')- आर्य पब्लिशिंग कंपनी

### प्रथम-सत्र

स्पर्श भाग-1

- गद्य खंड – 1. दुख का अधिकार  
 2. एवरेस्ट मेरी शिखर यात्रा  
 3. तुम कब जाओगे, अतिथि
- पद्य खंड – 1. रैदास के पद  
 2. रहीम के दोहे  
 3. आदमीनामा

संचयन भाग-1

1. गिल्लू
2. स्मृति

व्याकरण

1. शब्द और पद
2. अनुस्वार , अनुनासिक
3. उपसर्ग-प्रत्यय
4. शब्द विचार
  - श्रुतिसम भिन्नार्थक शब्द
  - पर्यायवाची
  - विलोम
5. अर्थ की दृष्टि से वाक्य भेद

रचना कौशल – 1. अनुच्छेद लेखन

2. पत्र-लेखन (अनौपचारिक)
3. संदेश लेखन
4. संवाद-लेखन
5. नारा-लेखन
6. अपठित गद्यांश

केवल पठन हेतु – 1. वैज्ञानिक चेतना के वाहक: चंद्रशेखर वेंकट रामन (स्पर्श)  
2. कल्लू कुम्हार की उनाकोटी (संचयन)

## द्वितीय-सत्र

स्पर्श भाग-1

गद्य खंड – 1. कीचड़ का काव्य  
2. शुक्रतारे के समान  
3. धर्म की आड़

पद्य खंड – 1. एक फूल की चाह  
2. अग्निपथ  
3. (क) नए इलाके में  
(ख) खुशबू रचते हैं हाथ

संचयन भाग -1

1. हामिद खाँ
2. दिए जल उठे

व्याकरण – प्रथम सत्र में की गई व्याकरण दोहराई जाएगी।

रचना कौशल – 1. अनुच्छेद लेखन

2. पत्र-लेखन (अनौपचारिक)
3. संदेश लेखन
4. संवाद-लेखन
5. नारा-लेखन
6. अपठित गद्यांश

केवल पठन हेतु – 1. गीत-अगीत (स्पर्श)

2. मेरा छोटा-निजी पुस्तकालय (संचयन)

<b>परीक्षा हेतु भार-विभाजन</b>	
<b>विषय-वस्तु</b>	<b>अंक</b>
अपठित बोध	10
व्याकरण	16
पाठ्य-पुस्तक एवं पूरक पुस्तक	28
रचना कौशल	26
कुल भार	80

## **FRENCH**

### **FIRST TERM**

#### **Textbook Prescribed**

Entre Jeunes Class IX(CBSE)

Textbook: Lessons 1 to 6

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

#### **Section -A: Reading Section**

One unseen prose passage (factual / descriptive) (100-150 words)

#### **Section - B : Writing Section**

Message, postcard , description of a person with visual input and clues , dialogue reordering

#### **Section-C : Grammar Section**

Based on the prescribed textbook (Lessons 1-6)

Articles

Possessive Adjectives , Demonstrative Adjectives, Prépositions

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

Question formation

Negatives (without expressions)

Retrouvez les phrases

Accordez les adjectifs

Corrigez la faute

#### **Section-D : Culture and Civilization**

Questions based on textbook (Lessons 1 to 6 )

### **SECOND TERM**

Textbook: Lessons 1 -12

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  
 Leçon-9: Un dîner en famille  
 Leçon -10: La mode  
 Leçon-11: Les fêtes  
 Leçon -12: La Francophonie

**Section -A: Reading Section**

One unseen prose passage (factual / descriptive) (100-150 words)

**Section - B : Writing Section**

One long composition (Informal Letter) (80 words)  
 Two short compositions: ( recipe, message , post card , description of a person with visual input and clues ) ( 30 -35 words )

**Section-C : Grammar Section**

Based on the prescribed textbook (Lessons 1 to 12)  
 Articles  
 Possessive Adjectives , Demonstrative Adjectives, Prépositions  
 Verbs (présent, futur proche , futur simple , pronominal verbs, passé composé, impératif, imparfait , passé récent , conditionnel présent)  
 Question formation ( including interrogative adjectives and pronouns )  
 Negatives  
 Personal pronouns  
 Simple relative pronouns

**Section-D : Culture and Civilization**

Questions based on textbook ( Lesson 1 to 12 )

<b>Course Structure</b>		
<b>Section</b>		<b>Marks</b>
A	Reading Comprehension	10
B	Writing Section	20
C	Grammar Section	30
D	Culture and Civilization	20
	<b>TOTAL</b>	<b>80</b>

# MATHEMATICS

**Text Book:** Text Book for Class IX (NCERT)

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

## **FIRST TERM**

Unit-I : Number Systems

Chapter-1 : Number Systems

Unit-II : Algebra

Chapter-2 : Polynomials

Unit-IV : Geometry

Chapter-5 : Introduction to Euclid's Geometry (not for assessment)

Chapter-6 : Lines and Angles

Chapter-7 : Triangles

Chapter-11 : Constructions

Unit-III : Coordinate Geometry

Chapter-3 : Coordinate Geometry

Unit-V : Mensuration

Chapter-12 : Heron's Formula

## **SECOND TERM**

Unit-II : Algebra (contd....)

Chapter-4 : Linear Equations in Two Variables

Unit-IV : Geometry (contd....)

Chapter-8 : Quadrilaterals

Chapter-9 : Areas of Parallelograms and Triangles

Chapter-10 : Circles

Unit-V : Mensuration (contd....)

Chapter-13 : Surface Areas and Volumes

Unit-VI : Statistics and Probability

Chapter-14 : Statistics

Chapter-15 : Probability

<b>Course Structure</b>	
<b>Unit Name</b>	<b>Marks</b>
Number Systems	08
Algebra	17
Coordinate Geometry	04
Geometry	28
Mensuration	13
Statistics and Probability	10
<b>TOTAL</b>	<b>80</b>

# **SCIENCE**

- Textbook:**
- 1) Science Textbook for Class IX (NCERT)
  - 2) Lab Manual: Science Lab Manual (Arya publications)
  - 3) Science Exemplar Problems-Class IX (NCERT)

## **FIRST TERM**

### **PHYSICS:**

Chapter 8: Motion

Chapter 9: Force and Laws of Motion

Chapter 10: Gravitation (till the topic – Mass & Weight; pg. 137)

### **Practicals**

1. To verify the laws of reflection of sound.
2. To determine the density of solid by using a spring balance and measuring cylinder.

### **CHEMISTRY**

Chapter 1: Matter in Our Surroundings

Chapter 2: Is Matter Around us Pure?

### **Practicals**

1. Preparation of a true solution, a suspension and a colloidal solution.
2. Preparation of a mixture and a compound using iron filings and sulphur powder.
3. Separation of the components of a mixture of sand, common salt and ammonium chloride.
4. Perform the reactions and classify them.
5. To determine the melting point of ice and boiling point of water.

### **BIOLOGY:**

Chapter 5: The Fundamental Unit of Life

Chapter 6: Tissues

Chapter 15: Improvement in Food Resources

### **Practicals**

1. To prepare a stained temporary mount of (a) onion peel, (b) human cheek cells and to record their 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.

## **SECOND TERM**

### **PHYSICS:**

Chapter 10: Gravitation- Floatation

Chapter 11: Work and Energy

Chapter 12: Sound

### **Practicals**

1. To establish the relation between the loss of weight of a solid when immersed in water with the weight of water displaced by it (Archimedes Principle)
2. To determine the speed of the pulse propagated through a stretched slinky.



## CHEMISTRY

Chapter 3: Atoms and Molecules

Chapter 4: Structure of the Atom

Chapter 14: Natural Resources

### Practicals

1. Verification of Law of Conservation of mass in a chemical reaction.

## BIOLOGY:

Chapter 7: Diversity in Living organisms

Chapter 13: Why do we fall ill?

### Practicals

1. Study the characteristics of *Spirogyra*, *Agaricus*, Moss, Ferns, *Pinus* (either with male or female cone) and an Angiospermic plant. Draw and give two identifying features of the group they belong to.
2. Observe the given pictures of earthworm, cockroach, bony fish and bird; for each organism draw their picture and record: a) one specific feature of its phylum b) one adaptive feature with reference to its habitat.
3. Study of the external feature of root, stem, leaf and flower of monocot and dicot plants.

Course Structure		
Units	Unit Name	Marks
I	Matter- Its Nature and Behaviour	23
II	Organisation in the Living World	20
III	Motion, Force and Work	27
IV	Our Environment	06
V	Food; Food Production	04
	<b>Total</b>	80

## SOCIAL SCIENCE

1. **History: India and the Contemporary World-I**
2. **Geography- Contemporary India-I**
3. **Political Science- Democratic Politics- I**
4. **Economics- Economics, textbook for class IX**
5. **Disaster Management : Together Towards a Safer India – Part II, A textbook on Disaster Management for class –IX (only through project and assignments)**

### FIRST TERM

#### HISTORY

Section –I: Events and Processes

Chapter-1 The French Revolution

Chapter-2 Socialism in Europe and the Russian Revolution

## **GEOGRAPHY**

Chapter-1 India- Size and Location

Chapter-2 Physical Features of India

Chapter-3 Drainage

## **POLITICAL SCIENCE**

Chapter-1 What is Democracy? Why Democracy?

Chapter-2 Constitutional Design

## **ECONOMICS**

Chapter-1 The Story of Village Palampur

Chapter-2 People as Resource

## **SECOND TERM**

### **HISTORY**

Section-I: Events and Processes

Chapter-3 Nazism and the Rise of Hitler

Section-II: Livelihoods, Economies and Societies

Chapter-4 Forest Society and Colonialism

Delete- Chapter-5 Pastoralists in the Modern World

### **GEOGRAPHY**

Chapter-4 Climate

Chapter-5 Natural Vegetation and Wild Life

Chapter-6 Population

### **POLITICAL SCIENCE**

Chapter-3 Electoral Politics

Chapter-4 Working of Institutions

Chapter-5 Democratic Rights

### **ECONOMICS**

Chapter-3 Poverty as a Challenge

Chapter-4 Food Security in India

<b>Course Structure</b>		
<b>Units</b>	<b>Unit Name</b>	<b>Marks</b>
I	India and the Contemporary World-I	20
II	Contemporary India- I	20
III	Democratic Politics – I	20
IV	Economics	20
	<b>TOTAL</b>	<b>80</b>

# **COMPUTER APPLICATIONS**

Textbook: Super Simplified Computer Applications-Dinesh Publications

By Vipin Arora

## **FIRST TERM**

### **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 cybercrimes
- Safely accessing websites: viruses and malware, adware

## **SECOND TERM**

### **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 hand-outs.
- 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.

#### **Unit 4: Python**

- Programming Basics : Algorithms and Flowcharts
- Characteristics of a good program
- Introduction to Python
- A simple "Hello World" program
- Running a Python program

#### **Distribution of Marks**

<b>Unit No</b>	<b>Unit Name</b>	<b>Marks</b>
1.	Basics of Information Technology	15
2.	Cyber safety	10
3.	Office Tools	15
4.	Scratch/Python	10
5.	Lab Exercises	50
	Total	100

## **PAINTING**

#### **Text Book :**

Panoramic Indian Painting (Vishal Publishing Co)

#### **FIRST TERM**

**UNIT- I : Fundamentals of Visual Arts (The Elements)**

**10 Marks**

**UNIT-II : Methods and Materials of Painting**

**10 Marks**

Understanding and appropriate use of:

(i) Tools,

(ii) Painting Materials - Poster Colours, Water Colours, Oil Pastels and Pencils

## SECOND TERM

### UNIT-III: Story of Indian Art

10 Marks

(i) Appreciation of Indian Art covering selected paintings, sculptures and architectural glimpses:

- a) Paintings
- b) Sculptures
- c) Architecture

(iii) **Indian Folk Art** – Paintings (Floor decoration) Alpana, Rangoli and Mandana

<b>UNIT - I</b>	<b>Fundamentals of Visual Arts (The Elements)</b>	<b>10 Marks</b>
<b>UNIT - II</b>	<b>Methods and Materials of Painting :</b> Understanding and appropriate use of :- (i) Tools (ii) Painting Materials – Poster Colours, Water Colours, Oil Pastels and Pencil	<b>10 Marks</b>
<b>UNIT – III</b>	<b>Story of Indian Art :</b> (i) Appreciation of Indian Art Covering :- Selected Paintings, sculptures and architectural glimpses (ii) Indian Folk Art – Paintings (Floor Decoration) Alpna, Rangoli and Mandona	<b>10 Marks</b>
	<b>Total</b>	<b>30 Marks</b>

### Practical : 50 Marks

## ART EDUCATION

TEXTBOOK : Art, Craft and Me-7 (Blue Print Education)

### FIRST TERM

Art, Craft and Me-7: Pages 5-37

### SECOND TERM

Art, Craft and Me-7: Pages 38 - 69