

## **Class VII**

### **ENGLISH**

#### **Text Books**

1. New Pathways Course Book (MCB)
2. New Pathways Literature Reader (LR)
3. Collins English Grammar and Composition-7
4. The Adventures of Tom Sawyer by Mark Twain

#### **Learning Objectives -**

##### **Reading**

To enable the students to -

1. read silently at varying speed depending on the purpose of reading.
2. recognise the organisation of a text.
3. identify the main points of a text.
4. read extensively on their own.

##### **Writing**

To enable the students to -

1. express ideas in clear and grammatically correct English, using appropriate punctuation and cohesion devices.
2. write a clear description.
3. expand notes into a piece of writing.
4. use an appropriate style and format to write letters (formal and informal), articles etc.; monitor, check and revise written work.

##### **Listening**

To enable the students to -

1. adopt different strategies according to the purpose of listening (e.g. for pleasure, for general interest, for specific information).
2. understand and respond appropriately to directive language (e.g. instruction, advice, request and warning).
3. understand and interpret messages conveyed in person or by telephone.

##### **Speaking**

To enable the students to -

1. operate intelligibly using appropriate word stress, sentence stress and intonation pattern.
2. narrate incidents and events, real and imaginary, in a logical sequence.

#### **General Note:**

A thorough reading of the text on regular basis is a must as questions from within the lesson will be given in the exams/tests. Questions in the exams are likely to be different from those attempted in the note books.

#### **FIRST TERM**

##### **Reading Comprehensions**

- MCB -
1. The Scholarship Jacket
  2. The Flower School
  3. The Quest of El Dorado
  4. Something Wonderful Happens When You Plant a Seed

##### **Writing Skills**

1. Notice Writing
2. Poster Making
3. Formal Letter Writing
4. Paragraph Writing

##### **Grammar**

1. Kinds of Sentences : Meaning
2. Types of Sentences : Structure
3. Nouns
4. Adjectives
5. Pronouns
6. Transitive and Intransitive Verbs
7. Agreement of Subject and Verb
8. Primary and Modal Auxiliaries
9. Expressing the Present
10. Expressing the Past
11. Expressing the Future
12. Active and Passive Voice
13. Test 1

## Literature and Long Reading Text

- LR - 1. Mother to Son (Poem)  
MCB - 2. Trains (Poem)  
3. The Ballad of Mulan (Poem)  
LR - 4. When Wishes Come True  
5. All About a Dog  
6. The Night We Won the Buick  
MCB - 7. A Hero

**N.B. :** Diary entry from the following chapter is to be done in class and assessed in literature section as long answer (80-100 words)

1. The Night We Won the Buick

**The Adventures of Tom Sawyer** - Chapters 1 to 7

**Note :** There will be separate assessment of listening and speaking skills.

**Listening Activities to be taken up in the term -**

- MCB - 1. The Scholarship Jacket (Pg. 30)  
2. The Diary of a Space Traveller (Pg. 57)  
3. The Narayanpur Incident (Pg. 88)  
4. Assessment of Listening Task 1 and 2 (Pg. 175)

**Creative Writing (Expressions)**

1. An itinerary is a detailed plan for a journey. It includes dates, stops, duration of the stay and a list of places to visit. Think of a city which you would like to visit and plan a two day itinerary for a trip to that city. (Refer to the chapter 'The Diary of a Space Traveller') (MCB).
2. Read the chapter 'The One Who Survived : Ada Blackjack' (MCB) about an extraordinary woman's expedition and story of lone survival in an island in northern Siberia. Write a paragraph describing what would you do if you were stranded on an island.
3. The chapter 'The Narayanpur Incident' (MCB) is about the courage and heroism depicted by a teacher's family at the time of 'Quit India Movement'. Read the story and think about a real life hero. Write a detailed account describing the heroic deed performed by him and also mention the qualities shown by him.

## SECOND TERM

**Reading Comprehensions**

- MCB - 1. The River  
2. Bidesia Babu  
3. What Lucy Found There  
4. The Listeners

**Writing Skills**

1. E-mail Writing
2. Message Writing
3. Article Writing
4. Informal Letter Writing

**Grammar**

1. Adverbs
2. Prepositions
3. Conjunctions
4. Determiners and Quantifiers
5. Articles
6. Direct and Indirect Speech
7. Finite and Non-Finite Verbs
8. Phrases
9. Clauses
10. Transformation and Synthesis
11. Punctuation
12. Grammar on the Go
13. Words : A Mixed Bag
14. Test 2
15. Test 3

**Literature and Long Reading Text**

- LR - 1. In the Bazaars of Hyderabad (Poem)  
2. Two's Company (Poem)  
3. Daffodils (Poem)  
4. The Happy Prince  
5. Experiments  
6. Packing  
7. Michael  
MCB - 8. Flames in the Forest

**N.B. :** Diary entry from the following chapter is to be done in class and assessed in literature section as long answer (80-100 words)

1. Packing

**The Adventures of Tom Sawyer** - Chapters 8 to 15

**Note :** There will be separate assessment of listening and speaking skills.

**Listening Activities to be taken up in the term -**

1. Flames in the Forest (Pg. 113)
2. The Too-Many Professors (Pg. 136)
3. Guilty (Pg. 167)
4. Assessment of Listening Task 3 and 4 (Pg. 176)

**Creative Writing**

1. The chapter 'The Too Many professors' (MCB) is about an imaginary professor who invented a marvellous mixture. Imagine you have a brilliant idea for an invention that will be of great use to the mankind but you need help and support. Write a letter to the Department of Science and Technology to convince them help you with funds and resources. Along with the letter, don't forget to attach a labelled drawing of your invention as you have imagined it.
2. Read the poem 'Goodbye Party for Miss Pushpa T.S.' (MCB) that is about the farewell party organised for Ms. Pushpa. You also organised a grand party on your birthday but your friend could not attend it due to her illness. Write an e-mail to her describing the fun she had missed.
3. The chapter 'Guilty' (MCB) revolves around a stolen diamond and has a surprise ending. There is a series of pictures given on the Pg. 164-166 that tell the famous story of Dr. Jekyll and Mr. Hyde written by R.L. Stevenson without the settings. Complete the story by filling in the correct setting in the correct picture frame.

## हिन्दी

- पाठ्य पुस्तकें :**
1. वसंत - भाग-2 (एन.सी.ई.आर.टी.)
  2. बाल महाभारत कथा (एन.सी.ई.आर.टी.)
  3. हिंदी व्याकरण सुधा - भाग-7 (गोयल ब्रदर्स प्रकाशन)

**हिन्दी शिक्षण का उद्देश्य :**

1. भाषा की बारीकी को समझना और सौन्दर्यबोध की क्षमता का विकास करना।
  2. दृश्य या श्रव्य माध्यमों की सामग्री को पढ़कर, देखकर और सुनकर समझने तथा उस पर स्वतन्त्र व स्वाभाविक मौखिक एवं लिखित प्रतिक्रिया व्यक्त करने की क्षमता का विकास करना।
  3. विभिन्न साहित्यिक विधाओं का आनन्द उठाने की क्षमता का विकास करना।
  4. पठित, लिखित और सुने हुए भाषिक ज्ञान से सम्बन्धित सामग्री का तार्किक दृष्टि से अध्ययन करने की प्रवृत्ति का विकास करना।
  5. अपने भावों व विचारों को सहज, स्वाभाविक और शुद्ध अभिव्यक्त करने की क्षमता का विकास करना।
  6. शब्दों, मुहावरों, लोकोक्तियों का सुचितित प्रयोग करने की क्षमता का विकास करना।
  7. मौखिक एवं लिखित अभिव्यक्ति के संदर्भ और आवश्यकता के अनुसार समुचित भाषा-शैली व प्रयोग को चुनने की समझ का विकास करना।
  8. भाषा की नियमबद्ध प्रकृति को पहचानना और उसका विश्लेषण करना।
- नोट:**
1. प्रत्येक पाठ से शब्दार्थ, वाक्य-प्रयोग, प्रश्नोत्तर, निबंधात्मक प्रश्न करवाए जाएँगे।
  2. परीक्षा में पाठ के मध्य से प्रश्न पूछे जाएँगे, अतः पाठ को ध्यानपूर्वक पढ़ना आवश्यक है।

**प्रथम सत्र**

**वसंत-2**

- गद्य पाठ -**
1. मिठाईवाला (कहानी)
  2. रक्त और हमारा शरीर (निबंध)
  3. कंचा (कहानी)
- पद्य पाठ -**
1. हम पंछी उन्मुक्त गगन के
  2. कठपुतली
  3. रहीम के दोहे

### पूरक पुस्तक -

बाल महाभारत कथा - 'महाभारत कथा' से लेकर 'यक्ष प्रश्न' तक

- व्याकरण -
1. वर्ण विचार
  2. संज्ञा
  3. लिंग, वचन, कारक
  4. सर्वनाम
  5. विशेषण
  6. पर्यायवाची शब्द (1-20)
  7. विलोम शब्द (1-20)
  8. अनेकार्थक शब्द (1-15)
  9. वाक्यांशों के स्थान पर एक शब्द (1-20)
  10. मुहावरे (1-10)
  11. समश्रुत-भिन्नार्थक शब्द (1-20)

### रचना कौशल

1. अपठित-गद्यांश - (वीर कुँवर सिंह) - वसंत
2. अपठित-काव्यांश - (विप्लव गायन) - वसंत
3. चित्र-वर्णन - 2
4. संवाद-लेखन - 2
5. विज्ञापन-लेखन - 2
6. पत्र-लेखन - 2 (औपचारिक एवं अनौपचारिक)
7. निबंध-लेखन - 2

### ग्रीष्मावकाश के लिए (प्रयोज्य कार्य हेतु) -

1. पापा खो गए (वसंत)
2. अपूर्व अनुभव (वसंत)

### द्वितीय सत्र

### वसंत-2

- गद्य पाठ -
1. खानपान की बदलती तस्वीर (निबंध)
  2. चिड़िया की बच्ची (कहानी)
  3. नीलकण्ठ (रेखाचित्र)

- पद्य पाठ -
1. भोर और बरखा
  2. एक तिनका
  3. शाम - एक किसान

### पूरक-पुस्तक

बाल महाभारत कथा - 'अज्ञातवास' से लेकर 'श्रीकृष्ण और युधिष्ठिर' तक

- व्याकरण -
1. क्रिया - कर्म के आधार पर
  2. काल
  3. क्रिया-विशेषण
  4. संबंधबोधक
  5. पर्यायवाची शब्द (21-40)
  6. विलोम शब्द (21-40)
  7. अनेकार्थक शब्द (16-30)
  8. वाक्यांशों के स्थान पर एक शब्द (21-40)
  9. मुहावरे (11-20)
  10. समश्रुत-भिन्नार्थक शब्द (21-40)

### रचना कौशल

1. अपठित-गद्यांश - (हिमालय की बेटियाँ) - वसंत
2. अपठित-काव्यांश - 2
3. चित्र-वर्णन - 2
4. संवाद-लेखन - 2
5. विज्ञापन-लेखन - 2
6. पत्र-लेखन - 2 (औपचारिक एवं अनौपचारिक)
7. निबंध-लेखन - 2

### शीतावकाश के लिए (प्रयोज्य कार्य हेतु) -

1. दादी माँ (वसंत)
2. आश्रम का अनुमानित व्यय (वसंत)

### संस्कृत

- पाठ्य-पुस्तकें -
1. रुचिरा (द्वितीयो भागः)
  2. संस्कृत व्याकरण मणिका (7)

## संस्कृत शिक्षण के उद्देश्य :-

1. संस्कृतभाषा एवं साहित्य के प्रति जिज्ञासा उत्पन्न करना।
2. अर्थबोध के साथ संस्कृत गद्यांशों को पढ़ने की क्षमता विकसित करना तथा संस्कृत श्लोकों को स्मरण कर सस्वर वाचन करने की योग्यता उत्पन्न करना।
3. संस्कृतभाषा का सामान्यज्ञान कराना जिससे संस्कृत के सरलांशों को सुनकर या पढ़कर विद्यार्थी समझ सकें एवं मौखिक तथा लिखित अभिव्यक्ति कर सकें।
4. संस्कृत में श्रवण-भाषण-वाचन से लेखन-कौशल तथा भाषागत कौशल का विकास करना।
5. दृश्य-श्रव्य साधनों को ध्यानपूर्वक देखकर, पढ़कर तथा सुनकर उन पर अपेक्षित क्रियाएँ करने में समर्थ होना।
6. विद्यार्थियों में सौन्दर्यबोध, कल्पनाशीलता तथा चिन्तन की क्षमता का विकास करना।

## सामान्य निर्देश :

1. रुचिरा में से परीक्षा हेतु पठित गद्यांशों, श्लोकों, संवादों पर आधारित प्रश्नोत्तर का अभ्यास करवाया जाएगा। भाषिक कार्य में जैसे - प्रश्न-निर्माण, पर्यायवाची, विलोम शब्द, संस्कृत में शब्दों के अर्थ, कर्तृक्रियापदचयन, विशेषण-विशेष्य, संज्ञा, सर्वनाम-प्रयोग आदि करवाये जाएंगे।
2. रुचिरा के पाठ्यक्रमानुसार पाठों का सम्पूर्ण अभ्यास तथा समस्त शब्दार्थ करवाये जाएंगे।
3. श्लोकों का अन्वय रिक्तस्थान के रूप में आएगा।
4. अव्यय, सन्धि, प्रत्यय, संख्या, शब्दरूप और धातुरूप वाक्यों में आएंगे।
5. प्रश्नपत्र संस्कृतभाषा में आयेगा।

### प्रथम सत्र

1. रुचिरा - प्रथमः पाठः - सुभाषितानि  
द्वितीयः पाठः - दुर्बुद्धिः विनश्यति  
तृतीयः पाठः - स्वावलम्बनम्  
चतुर्थः पाठः - हास्यबालकविसम्मेलनम्

- पञ्चमः पाठः - पण्डिता रमाबाई  
नवमः पाठः - अहमपि विद्यालयं गमिष्यामि

## 2. व्याकरण

1. अव्यय (रिक्तस्थान के रूप में) - समस्त अव्यय शब्द
  2. सन्धि (वाक्यों में) - दीर्घ सन्धिः, यण सन्धिः
  3. प्रत्यय (वाक्यों में) - क्त्वा प्रत्यय
  4. शब्दरूप (वाक्यों में) - कवि, मधु, नदी, तद् (तीनों लिंगों में)
  5. धातुरूप (वाक्यों में) - (लट्, लृट्, लङ्, लकारों में) धातुएँ - पा, चुर, स्था, दृश्
  6. वाक्यसंशोधनम् - वचन, लिंग, लकार, पुरुष तथा विशेषण-विशेष्य पर आधारित।
3. 1. अपठित गद्यांश
  2. पत्रलेखनम् - संकेताधारितं पत्रम्
  3. चित्रवर्णनम् - प्रदत्त चित्र के आधार पर संस्कृत में वाक्य।
  4. हिन्दी से संस्कृत में अनुवाद (पाँच वाक्यों का)

## पुनरावृत्ति

### द्वितीय सत्र

1. रुचिरा - षष्ठः पाठः - सदाचारः  
अष्टमः पाठः - त्रिवर्णः ध्वजः  
दशमः पाठः - विश्वबन्धुत्वम्  
एकादशः पाठः - समवायो हि दुर्जयः  
चतुर्दशः पाठः - अनारिकायाः जिज्ञासा  
पञ्चदशः पाठः - लालनगीतम्

## 2. व्याकरण

1. उपपद विभक्तियाँ - उभयतः, परितः, प्रति, सह, विना, नमः, दा, बहिः, अधः, उपरि, निपुणः इन पदों के साथ उपयुक्त विभक्तियों का प्रयोग। (उपपद विभक्तियों पर आधारित अशुद्धि-संशोधनम् रिक्तस्थानादि)
2. संख्या (वाक्यों में) - 1 से 50 तक।  
क्रमवाचक (पूरणार्थक) संख्या - प्रथम से दशम तक तीनों लिंगों में, सभी विभक्तियों में प्रायोगिक ज्ञान।

## FIRST TERM

### Detailed Study

#### Text Book :

- Leçon 1 - La rentrée
- Leçon 2 - Il est français?
- Leçon 3 - La journée de Mme Lavigne
- Leçon 4 - Kalu est malade
- Leçon 6 - M. Lavigne cherche un manteau

#### Work Book : Leçons - 1, 2, 3, 4, 6

#### Grammar :

1. Les articles (définis, indéfinis, contractés, partitifs)
2. Les verbes réguliers et irréguliers
3. La négation
4. Les adverbes de quantité
5. Le féminin et le pluriel des noms et des adjectifs
6. La position des adjectifs
7. L'infinitif après un autre verbe
8. Quelle heure est-il?
9. Les verbes pronominaux
10. Les jours de la semaine, les mois de l'année et les saisons
11. Les trois formes d'interrogation
12. L'interrogation négative et 'si'
13. Les expressions avec 'avoir'
14. Les verbes en 'yer'
15. Les prépositions et les adverbes de lieu
16. Les couleurs
17. Corrigez la faute
18. Mettez les phrases en ordre

### REVISION

## SECOND TERM

### Detailed Study

#### Text Book :

- Leçon 0 - La France, Qu'est-ce que c'est?
- Leçon 5 - Faire les courses
- Leçon 7 - Allons à Paris
- Leçon 8 - Les photos de Manuel

3. प्रत्यय (वाक्यों में) - ल्यप् प्रत्यय
  4. शब्दरूप (वाक्यों में) - मति, वारि, पितृ, एतद् (तीनों लिंगों में)
  5. धातुरूप (वाक्यों में) - (लट्, लृट्, लङ्, लकारों में) धातुएँ - पच्, लिख्, कृ, वस्
3. 1. अपठित गद्यांश
2. पत्रलेखनम् - संकेताधारितं पत्रम्
  3. चित्रवर्णनम् - प्रदत्त चित्र के आधार पर संस्कृत में वाक्य
  4. हिन्दी से संस्कृत में अनुवाद (पाँच वाक्यों का)

### पुनरावृत्ति

## FRENCH

**Text Book :** Apprenons Le Français-3

**Work Book :** Cahier d'exercices-3

**Dictionary :** Larousse

### Learning Objectives

1. To enhance the level of the students both in written and spoken French.
2. To enable the students to express themselves more effectively, naturally and correctly in the productive skill of writing.
3. To enhance the level of vocabulary and strengthen their concepts of grammar.
4. To enable the students to write in an appropriate style for communication purposes.
5. To develop basic understanding, conjugation of verbs in present tense, articles, prepositions, conjunctions, adjectives, imperatives and different expressions.
6. To implement different strategies to make learning French an enjoyable and interesting experience.
7. To acquaint them with French culture and civilization.

### General Note :

Questions from within the lessons and related to culture and civilization of France will be asked in the exams/tests.

Leçon 9 - Au café des Laurent

Leçon 11 - Une journée bien chargée

**Work Book :** Leçons - 0, 5, 7, 8, 9, 11

**Grammar :**

1. Les adverbes interrogatifs
2. Les verbes 'savoir' et 'connaître'
3. Les prépositions de lieu
4. Les adjectifs démonstratifs
5. Les verbes irréguliers
6. Les professions
7. Qui est-ce?
8. L'impératif - affirmatif et négatif
9. Le passé composé avec 'avoir'
10. Les moyens de transport
11. Corrigez la faute
12. Mettez les phrases en ordre

**REVISION**

### MATHS

**Text Book :** Mathematics - Textbook for Class VII (NCERT)

**Practice Book :** Maths Ladder - Practice book for Mental Maths  
(Impression)

**Learning Objectives**

Teaching of Mathematics helps the learners to

- acquire knowledge and understand terms, symbols, concepts, principles, processes, proofs etc.
- consolidate the Mathematical knowledge and skills acquired at the primary level.
- develop mastery of basic algebraic skills.
- develop drawing skills.
- apply Mathematical knowledge and skills to solve real life problems by developing abilities to analyse, to see interrelationship involved, to think and reason.
- develop interest in Mathematics as a problem solving tool in various fields.
- develop reverence and respect towards great Mathematicians, particularly towards the Indian

Mathematicians for their contributions to the field of Mathematics.

### FIRST TERM

**Chapter-1 : Integers**

- Introduction
- Recall
- Properties of Addition and Subtraction of Integers
- Multiplication of Integers
- Properties of Multiplication of Integers
- Division of Integers
- Properties of Division of Integers  
Ex. 1.1 to Ex. 1.4 with examples

**Practice Book :** Page No. 5 to 10

**Chapter-2 : Fractions and Decimals**

- Introduction
- How well have you learnt about Fractions?
- Multiplication of Fractions
- Division of Fractions
- How well have you learnt about Decimal Numbers?
- Multiplication of Decimal Numbers
- Division of Decimal Numbers  
Ex. 2.1 to Ex. 2.7 with examples

**Practice Book :** Page No. 11 to 18

**Chapter-5 : Lines and Angles**

- Introduction
- Related Angles
- Pairs of Lines
- Checking for Parallel Lines  
Ex. 5.1 and Ex. 5.2 with examples

**Practice Book :** Page No. 33 to 37

**Chapter-6 : The Triangle and Its Properties**

- Introduction
- Medians of a Triangle
- Altitudes of a Triangle
- Exterior Angle of a Triangle and its Property
- Angle Sum Property of a Triangle

- Two Special Triangles : Equilateral and Isosceles
- Sum of the lengths of two sides of a Triangle
- Right Angled Triangles and Pythagoras Property  
Ex. 6.1 to Ex. 6.5 with examples

**Practice Book :** Page No. 38 to 43

#### **Chapter-9 : Rational Numbers**

- Introduction
- Need for Rational Numbers
- What are Rational Numbers?
- Positive and Negative Rational Numbers
- Rational Numbers on a Number Line
- Rational Numbers in Standard Form
- Comparison of Rational Numbers
- Rational Numbers between two Rational Numbers
- Operations on Rational Numbers  
Ex. 9.1 and Ex. 9.2 with examples

**Practice Book :** Page No. 58 to 66

#### **Chapter-13 : Exponents and Powers**

- Introduction
- Exponents
- Laws of Exponents
- Miscellaneous examples using the laws of Exponents
- Decimal Number System
- Expressing large Numbers in the Standard Form  
Ex. 13.1 to Ex. 13.3 with examples

**Practice Book :** Page No. 87 to 91

#### **Chapter-14 : Symmetry**

- Introduction
- Lines of Symmetry for Regular Polygons
- Rotational Symmetry
- Line Symmetry and Rotational Symmetry  
Ex. 14.1 to Ex. 14.3 with examples

**Practice Book :** Page No. 92 to 95

#### **Vedic Mathematics**

1. Multiplication of numbers by “Nikhilam Sutra”
2. Multiplication of numbers by “Urdhava Triyagbhayam” method

3. Squaring of numbers by “Yavadunam” method
4. Division of numbers by 9 using “Nikhilam” method

### **SECOND TERM**

#### **Chapter-3 : Data Handling**

- Introduction
- Collecting Data
- Organisation of Data
- Representative Values
- Arithmetic Mean
- Mode
- Median
- Use of Bar Graphs with a different purpose
- Chance and Probability  
Ex. 3.1 to Ex. 3.4 with examples

**Practice Book :** Page No. 19 to 26

#### **Chapter-4 : Simple Equations**

- A mind-reading game
- Setting up of an Equation
- Review of what we know
- What Equation is?
- More Equations
- From Solution to Equation
- Application of Simple Equations to Practical situations  
Ex. 4.1 to Ex. 4.4 with examples

**Practice Book :** Page No. 27 to 32

#### **Chapter-7 : Congruence of Triangles**

- Introduction
- Congruence of Plane Figures
- Congruence among line segments
- Congruence of Angles
- Congruence of Triangles
- Criteria for Congruence of Triangles
- Congruence among Right-Angled Triangles  
Ex. 7.1 and Ex. 7.2 with examples

**Practice Book :** Page No. 44 to 49

## Chapter-8 : Comparing Quantities

- Introduction
- Equivalent Ratios
- Percentage - another way of comparing quantities
- Use of Percentages
- Prices related to an item or buying and selling
- Charge given on borrowed money or Simple Interest  
Ex. 8.1 to Ex. 8.3 with examples

**Practice Book :** Page No. 50 to 57

## Chapter-10 : Practical Geometry

- Introduction
- Construction of a line parallel to a given line, through a point not on the line
- Construction of Triangles
- Constructing a triangle when the lengths of its three sides are known (SSS criterion)
- Constructing a triangle when the lengths of two sides and the measure of the angle between them are known (SAS criterion)
- Constructing a triangle when the measures of two of its angles and the length of the side included between them is given (ASA criterion)
- Constructing a right-angled triangle when the length of one leg and its hypotenuse are given (RHS criterion)  
Ex. 10.1 to Ex. 10.5 with examples

**Practice Book :** Page No. 67 to 72

## Chapter-11 : Perimeter and Area

- Introduction
- Squares and Rectangles
- Area of a Parallelogram
- Area of a Triangle
- Circles
- Conversion of Units
- Applications  
Ex. 11.1 to Ex. 11.4 with examples

**Practice Book :** Page No. 73 to 80

## Chapter-12 : Algebraic Expressions

- Introduction
- How are Expressions formed?
- Terms of an Expression
- Like and Unlike terms
- Monomials, Binomials, Trinomials and Polynomials
- Addition and Subtraction of Algebraic Expressions
- Finding the value of an Expression
- Using Algebraic Expressions - Formulae and Rules  
Ex. 12.1 to Ex. 12.4 with examples

**Practice Book :** Page No. 81 to 86

## Chapter-15 : Visualising Solid Shapes

- Introduction : Plane Figures and Solid Shapes
- Faces, Edges and Vertices
- Nets for Building 3-D Shapes
- Drawing Solids on a Flat Surface
- Viewing Different Sections of a Solid  
Ex. 15.1 to Ex. 15.4 with examples

**Practice Book :** Page No. 96 to 98

## Vedic Mathematics

1. Division by Paravartya - Yojayet Sutra
  - (a) Four digit numbers by two digit numbers
  - (b) Four digit numbers by three digit numbers
2. Multiplication of three numbers by “Nikhilam Navatascaramam Dasatah” Sutra.
3. Multiplication of numbers by “Urdhava Tirayak Sutra”.

## SCIENCE

**Text Book :** Science : Textbook for Class-VII (NCERT)

## Learning Objectives

- The objectives of teaching Science are :
- to strengthen the knowledge acquired at primary level.
  - to emphasize the acquisition of scientific knowledge.
  - to appreciate nature and sensitise the students about the environment.
  - to understand scientific language i.e. symbols, formulae etc.

- to develop scientific attitude/temper.
- to apply the theoretical knowledge of Science to daily life.
- to make the students abreast with the latest technological developments that have taken place and their impact on the society.
- to enable the students to develop the process of problem solving and decision making.

## **PHYSICS**

### **FIRST TERM**

#### **Chapter-13 : Motion and Time**

Slow or fast, speed, measurement of time, measuring speed, distance - time graph.

#### **Chapter-15 : Light**

Light travels along a straight line, reflection of light, right or left, playing with spherical mirrors, images formed by lenses, sunlight-white or coloured.

#### **REVISION**

### **SECOND TERM**

#### **Chapter-4 : Heat**

Hot and cold, measuring temperature, laboratory thermometer, transfer of heat, kinds of clothes we wear in summer and winter.

#### **Chapter-8 : Winds, Storms and Cyclones**

Air exerts pressure, high speed winds are accompanied by reduced air pressure, air expands on heating, wind currents are generated due to uneven heating on the earth, thunderstorms and cyclones, destruction caused by cyclones, effective safety measures, advanced technology has helped.

#### **Chapter-14 : Electric Current and Its Effects**

Symbols of electric components, heating effect of electric current, magnetic effect of electric current, electromagnet, electric bell.

#### **REVISION**

## **CHEMISTRY**

### **FIRST TERM**

#### **Chapter-3 : Fibre to Fabric**

Wool, silk

#### **Chapter-5 : Acids, Bases and Salts**

Acids and bases, natural indicators around us, neutralisation, neutralisation in everyday life.

**Note :** Introduction of symbols of some common elements and formulae of some common compounds.

#### **Chapter-16 : Water - A Precious Resource**

How much water is available, forms of water, ground water as an important source of water, depletion of water table, distribution of water, water management, what role you can play? Effect of water scarcity on plants.

#### **REVISION**

### **SECOND TERM**

#### **Chapter-6 : Physical and Chemical Changes**

Physical changes, chemical changes, rusting of iron, crystallisation.

#### **Chapter-18 : Waste Water Story**

Water - our lifeline, what is sewage? Water freshens up - an eventful journey, wastewater treatment plant, better house keeping practices, sanitation and disease, alternative arrangement for sewage disposal, sanitation at public places.

#### **REVISION**

## **BIOLOGY**

### **FIRST TERM**

#### **Chapter-1 : Nutrition in Plants**

Mode of nutrition in plants, photosynthesis - food making process in plants, other modes of nutrition in plants, saprotrophs, how nutrients are replenished?

#### **Chapter-2 : Nutrition in Animals**

Different ways of taking food, digestion in humans, digestion in grass eating animals, feeding and digestion in amoeba.

#### **Chapter-7 : Weather, Climate and Adaptations of Animals to Climate**

Weather, climate, climate and adaptation.

#### **Chapter-10 : Respiration in Organisms**

Why do we respire, breathing, how do we breathe? What do we breathe out? Breathing in other animals, breathing under water. Do plants also respire?

## REVISION

### SECOND TERM

#### Chapter-9 : Soil

Soil teeming with life, soil profile, soil types, properties of soil, moisture in soil, absorption of water by soil, soil and crops.

#### Chapter-11 : Transportation in Animals and Plants

Circulatory system, excretion in animals, transport of substances in plants.

#### Chapter-12 : Reproduction in Plants

Modes of reproduction, sexual reproduction, fruits and seed formation, seed dispersal.

#### Chapter-17 : Forests : Our Lifeline

Visit to a Forest.

## REVISION

### SOCIAL SCIENCE

#### Learning Objectives

The course in Social Science will help learners :

- develop an understanding of the processes of change and development - both in terms of time and space, through which human societies have evolved.
- deepen the knowledge and understanding of environment in its totality, their interactive processes and effects on the future life of people.
- develop scientific temper by promoting the spirit of enquiry and following rational and objective approach in analysing and evaluating data and information as well as views and interpretations.

#### Textbooks :

1. Our Pasts-II : Textbook in History for Class VII (NCERT)
2. Social and Political Life-II : Textbook for Class VII (NCERT)
3. Our Environment : Textbook in Geography for Class VII (NCERT)
4. Atlas - Oxford School Atlas

## FIRST TERM

### Our Pasts-II

- Chapter 1 : Tracing Changes Through A Thousand Years  
Chapter 2 : New Kings and Kingdoms  
**Map Work** : Kanauj and important temple towns
- Chapter 3 : The Delhi Sultans  
**Map Work** : Delhi, Devagiri
- Chapter 5 : Rulers and Buildings (Project)  
Chapter 9 : The Making of Regional Cultures  
**Map Work** : Bengal, Orissa (Puri), Rajasthan, Uttar Pradesh, Kerala, Himachal Pradesh

### Social and Political Life-II

- Chapter 1 : On Equality  
Chapter 2 : Role of the Government in Health  
Chapter 3 : How the State Government Works  
Chapter 4 : Growing up as Boys and Girls

### Our Environment

- Chapter 1 : Environment  
**Diagram** : Domains of the Environment
- Chapter 2 : Inside Our Earth  
**Diagram** : Interior of the Earth
- Chapter 3 : Our Changing Earth  
**Diagram** : A Volcano; Features made by a river
- Chapter 4 : Air  
**Diagram** : Layers of the Atmosphere
- Chapter 5 : Water  
**Diagram** : Water Cycle
- Map Work : World Political Map : Ocean currents - Labrador, Gulf stream, California, Brazilian, Kuroshio, West Australian, Oyashio.  
World Political Map : Largest Great Lake of North America, longest river, river of Tibet that originates in the Himalayas, water body that separates Europe and Africa.

## SECOND TERM

### Our Pasts-II

- Chapter 4 : The Mughal Empire  
**Map Work** : Capital of Babur, First battle of Panipat, New capital of Akbar
- Chapter 6 : Towns, Traders and Craftspersons  
**Map Work** : Hampi, Masulipatnam, New trading centres of the 18th century, Surat
- Chapter 7 : Tribes, Nomads and Settled Communities (Project)
- Chapter 8 : Devotional Paths To The Divine  
**Map Work** : Regions associated with major Bhakti saints
- Chapter 10 : Eighteenth-Century Political Formations  
**Map Work** : Territory under British control in the mid 18th century, Old Mughal provinces in the 18th century (Awadh, Bengal and Hyderabad)

### Social and Political Life-II

- Chapter 5 : Women Change the World
- Chapter 6 : Understanding Media
- Chapter 7 : Markets Around Us
- Chapter 8 : A Shirt in the Market
- Chapter 9 : Struggles for Equality

### Our Environment

- Chapter 6 : Natural Vegetation and Wildlife
- Chapter 7 : Human Environment - Settlement, Transport and Communication  
**Map Work** : World Political Map : Some important sea ports and airports of the world  
India Political Map : Cities connected in Golden Quadrilateral.
- Chapter 8 : Human Environment Interactions - The Tropical and the Subtropical Region  
**Map Work** : World Political Map : River Amazon, areas drained by Amazon River; the equator and the countries passing through the equator

India Political Map : River Ganga, River Brahmaputra, Tributaries of river Ganga

- Chapter 9 : Life in the Deserts  
**Map Work** : World Political Map : Continent where Sahara Desert lies, countries situated on the boundaries of Sahara Desert  
India Political Map : Ladakh, Zojila pass, Zaskar Range, Karakoram Range, Kargil and Leh.

## COMPUTER SCIENCE

### Learning Objectives

- to familiarize the students with the concept of computer fundamentals
- to understand the basic concepts of databases.
- to build basic skills for website designing using HTML

**Text book** - IT Planet - Petabyte (Class-7)

## FIRST TERM

### Lesson 1 : Computer Virus

- Computer Virus
- Malware
- E-mail Virus
- Ransomware Virus
- Anti Virus Program
- Precautions against Computer Virus

### Lesson 7 : HTML - Introduction

- Introduction to HTML
- HTML 5
- Text Editors
- Web browsers for HTML 5

### Lesson 8 : HTML - Creating Web Page

- HTML 5
- Creating and Saving a Web Page
- Basic HTML Tags
- Displaying Web Page in a Web Browser
- Modifying Paragraph Text
- Heading Tag
- Formatting Text

## SECOND TERM

### Lesson 2 : Number System

- Introduction
- Number System
- Conversion of Number Systems
- Bits and Bytes

### Lesson 9 : HTML - Images, Links and Table

- Images in Web Pages
- Inserting Images
- Creating List
- Creating Links
- Links in Web Page
- Tables in a Web Page
- Creating a Table

### Lesson 10 : Access - Creating a Database

- Database
- Microsoft Access
- Starting Access 2019
- Project : Dance Class Database
- Creating a Blank Database
- Creating a New Table
- Adding Records to a Table

### For Practical Sessions Only

- Lesson 4 : Photoshop - Introduction
- Lesson 5 : Photoshop - Layers and Filters
- Lesson 3 : Animate - Layers and Animation

## GENERAL KNOWLEDGE

### FIRST TERM

#### 1. NATURE

- Animals in Cold Regions
- A Little World
- Here are Herbs
- Desert Animals
- Few Forests

#### 2. INDIA

- Bharat Ratna Awardees
- Yesterday and Today
- Places of Worship
- Kings and Emperors
- High Hills
- Count on Courage

#### 3. WORLD

- The Freezing Cold
- Leaders' Homes
- Women and the Nobel
- The United Nations
- Parliaments

#### 4. LANGUAGE

- Legendary Writers
- Books by Women
- One Liners
- Name Game
- Platform for Playwrights

#### 5. SCIENCE

- Human Body
- Social Networking Services
- Glands

#### 6. SPORTS

- Olympic Greats
- The Grand Slam Winners

#### 7. ENTERTAINMENT

- Latino Dance and Music
- Puppetry

## SECOND TERM

#### 1. NATURE

- Hello Health Life Skills
- One of a kind
- Gone from the Earth
- Animals that Adapt
- The One-horned Rhino

#### 2. INDIA

- Heritage Sites
- Make in India
- Words of Wisdom
- Offbeat Places
- Northeast Miscellany

#### 3. WORLD

- Lesser known Places
- Travel Tips Life Skills
- Years Gone by
- Train Travel
- Natural Wonders

#### 4. LANGUAGE

- Contrary Proverbs
- Phobias
- Newspapers
- Languages

#### 5. SCIENCE

- Robotics in India
- What is the Disease?
- Sports Injuries

#### 6. SPORTS

- Sports Legends
- Playing Sports
- Famous for Sports

## 7. ENTERTAINMENT

- Radio Jockey

Test Paper 1

Test Paper 2

### WORK EXPERIENCE

#### Learning Objectives :

To help the pupils to develop essential knowledge and understanding in terms of :

- acquainting themselves with productive activities in the community
- understanding facts and scientific principles involved in various forms of work
- knowing the sources of raw material and understanding the use of tools and equipments in the production of goods and services
- understanding the utility of productive work and services to the community
- developing abilities for self-evaluation of performance and entrepreneurship

### ENGLISH LITERARY CLUB

#### FIRST TERM

1. Vocabulary enhancing exercises (using Dictionary) and various oral and paper-pen games
2. Newspaper Reading
3. News Report Writing
4. Rewriting the endings  
To rewrite the endings or last chapters of various novels and stories by Sherlock Holmes, O'Henry, Saki etc.
5. Spell Check
6. Quotations and Idioms
7. To write short poems with illustrations on a given topic

#### SECOND TERM

1. Just a Minute
2. Radio Show
3. Spin-a-Yarn (weaving stories from a given beginning)
4. Dumb Charades (idioms, phrases, quotations)

5. Character Dramatisation from various stories from the text book or other stories
6. Reading poems for pleasure and appreciation
7. Group Discussion (i) Importance of Reading  
(ii) Manners maketh a Man

### हिन्दी साहित्यिक समिति

#### प्रथम सत्र

1. कविता-पाठ (प्रकृति, साहस, शिक्षाप्रद)
2. नारे (समाज कल्याण से सम्बन्धित)
3. समाचार-लेखन तथा वाचन
4. कहानी-रचना (कहानी लेखन व वाचन)
5. दोहा, कवित्त (तुलसीदास, कबीर, वृंद, भूषण)

#### द्वितीय सत्र

1. चरित्र-अभिनय (पौराणिक, ऐतिहासिक या अन्य)
2. शब्दकोश देखना एवं निर्माण करना
3. कहानी का नाट्य रूपांतरण
4. लघु एकांकी मंचन (स्वच्छता, पर्यावरण, एकता)
5. प्रेरक प्रसंग - वाचन (महात्मा गांधी, बल्लभभाई पटेल, चन्द्रशेखर आज़ाद आदि महान व्यक्तियों से जुड़े प्रेरक प्रसंग)

### MATHEMATICS CLUB

#### FIRST TERM

1. Solving integer grid
2. Puzzle solving
3. Equality of corresponding angles and alternate interior angles
4. Finding the area of cross roads using strips
5. Magic square on fractions
6. Nets of 3D objects
7. Comparison of perimeter and area of plane figures
8. Representation of data by double bar graph using paper strip and its comparison

#### SECOND TERM

1. To verify whether the construction of triangle is possible in different cases

2. To make any design using only mathematical shapes (square, rectangle, trapezium, parallelogram etc.)
3. Designs with the help of compass
4. Cutting the figures with rotational symmetry of order 1 or more and identify its centre of rotation
5. Making different designs using tangrams
6. Complete the series
7. Vedic Mathematics
8. To construct all angles which are multiples of 15.

#### **ELECTRONICS AND ECO CLUB**

##### **FIRST TERM**

1. 'Zero Garbage Concept' - Making of compost pit
2. Poster making on hazards of e-waste
3. Making water level indicator
4. Green drive with sacred and medicinal herbs
5. Making a portable projector
6. Making natural mosquito repellents

##### **SECOND TERM**

1. Making home-made air purifier
2. Campaign on energy conservation
3. Making 100% energy free generator
4. Making file folder from eco-friendly material
5. Power point presentation on water pollution - Problems and Solutions
6. Excursion to generate awareness on environment

#### **FINE ART**

##### **FIRST TERM**

1. Landscape in water colours
2. Caricature making
3. Foliage study
4. Rajasthani 'Folk-Art'
5. City scape in Pointillism

##### **SECOND TERM**

1. Poster making
2. Nature study
3. Paper collage

4. Composition in Oil Pastels
5. Mosaic Painting

#### **HANDICRAFT**

##### **FIRST TERM**

1. Picture Patchwork
2. Door hanging
3. Spray painting
4. Letter box
5. Puppet making

##### **SECOND TERM**

1. Pen stand
2. Bangle Box
3. Table Mats
4. Paper Flower
5. Photo Frame

#### **CONNOISSEURS CLUB**

##### **FIRST TERM**

1. Tri colour rawa idli
  2. Power packed cereal
  3. Bonsai plant making
  4. Cup cakes
  5. Gel candle
  6. Jewellery designing with drinking straws
  7. Supreme veggi pizza
  8. Tie and dye (two or three colours)
- \* Hankies / Table mats - 6

##### **SECOND TERM**

1. Triple decker chutney sandwich
2. Green oats cake
3. Mask making
4. Chocolate making/Fruity chocolate
5. Moong Dal Cheela
6. Cheese and herb dip
7. Pretty 3-D picture
8. High fibre hearts

## WESTERN DANCE

### Flamenco, Jamaican, Chinese

1. Body movements
2. Exercise (warming work out)
3. Dance on western music with props
4. One dance on self composition

### शास्त्रीय नृत्य तथा लोक नृत्य

#### शास्त्रीय नृत्य

1. गणेश श्लोक
2. सरस्वती श्लोक
3. हस्त मुद्राएँ
4. तालो का ज्ञान
5. पद भेद

#### लोक नृत्य

1. पहाड़ी (नटी)
2. कश्मीरी (डोगरी)
3. असम (बीहू)
4. महाराष्ट्र (लावणी)

## MUSIC

#### Theory

1. 10 अलंकार
2. झपताल, एकताल तालो का अध्ययन
3. तालबद्ध अलंकार
4. तालबद्ध सरगम गीत
5. तराना
6. आरोह-अवरोह, स्थायी-अंतरा
7. लोक संगीत तथा शास्त्रीय संगीत
8. अलंकार व अलंकार के नियम

#### Practical

1. अलंकारों का अभ्यास
2. तालबद्ध अलंकारों का अभ्यास
3. राग - भैरव
4. सरगम गीत - राग भैरव
5. भजन - 'श्री राम बिना तेरो कौन सहाय'
6. लोकगीत - आसामी गीत
7. संस्कृत श्लोक - 'असतो मा सदगमय'

8. English Songs - 1. Glorious Song  
2. It's a beautiful day
9. प्रार्थना तथा देशभक्ति गीतों का अभ्यास
10. Patriotic Songs - 'खुद जियो औरों को भी जीने दो'  
'तुम समय की रेत पर छोड़ते चलो निशां'
11. वाद्ययंत्र - Casio, Kongo, Harmonium

## YOGA

- (a) (i) Introduction of Yoga  
(ii) Some general instructions

#### (b) Yogasana

- (1) Padmasana
- (2) Bhujangasana
- (3) Vajrasana
- (4) Simhasana
- (5) Makarasana
- (6) Pachimottanasana
- (7) Cakrasana
- (8) Savasana
- (9) Gomukhasana
- (10) Janu-Sirsasana
- (11) Mandukasana
- (12) Surya-Namaskara
- (13) Kurmasana
- (14) Sarvangasana

#### (c) Yogic Suksma-Vyayama

- (1) Smarana-Sakti-Vikasaka
- (2) Buddhi-Tatha-Dhrti-Sakti-Vikasaka
- (3) Netra-Sakti-Vikasaka
- (4) Karna-Sakti-Vikasaka
- (5) Medha-Sakti-Vikasaka
- (6) Kapola-Sakti-Vikasaka
- (7) Griva-Sakti-Vikasaka
- (8) Udara-Sakti-Vikasaka (5 types)
- (9) Kati-Sakti-Vikasaka (5 types)
- (10) Purna-Bhuja-Sakti-Vikasaka

#### (d) Yogic-Sthula-Vyayama

- (1) Sirsasana (Standing on the head)
- (2) Utkurdan
- (3) Sarvanga-Pushti
- (4) Hrd-gati (The Locomotive exercise)

## ART EDUCATION

### Learning Objectives

- Introduce the students to new media and technique and their use for creative expression and making objects of common use.
- Refine the sense of appreciation of the beauty of nature and the basic elements of art forms.

### FIRST TERM

1. Know about colours (Primary, secondary and Neutral)
2. Basic colouring strokes and techniques.

### Art Redefined Book-5

Pages 3 to 34

### SECOND TERM

### Art Redefined Book-5

Pages 35 to 70

### MUSIC, DANCE, DRAMA

#### Theory :

1. Concept of Art Education
2. Basic knowledge of performing Art
3. Definition of Sangeet, Saptak, Aaroha-Avroha, Raag, Taal, Sudh Swar, Komal Swar
4. Kinds of dance
5. Basic elements of Dance and Drama
6. Written work of Taal - 'Jhaptal, Keherva'
7. 10 Alankars

#### Practical :

1. Practice of Alankars
2. Practice of Taal
3. Practice of prayers and songs from diary
4. Himachal folk song
5. One patriotic song - 'तुम समय की रेत पर'
6. English Song - (i) 'Rejoice, Rejoice'  
(ii) 'Sing for joy in the Lord'
7. Exercises of Western Dance forms
8. Footwork of different Western Dance, Classical Dance form & Folk Dance

9. Footwork of Dance Drama and Nukkad Natak

10. भजन - 'श्रीराम चन्द्र कृपालु भज मन'

## PHYSICAL EDUCATION AND HEALTH EDUCATION

### Learning Objectives

- To aware about balanced diet and nutrition
- Effects of diet on performance
- Meaning and need of sports environment

### Theory

1. Effects of exercise on respiratory system.
2. Knowledge about communicable diseases and their effects on our health.
3. Knowledge of sports injuries and first aid and treatment.
4. Knowledge of all Physical exercises related with major games and their benefits

### Practical : (Games and Sports)

- |                 |                |
|-----------------|----------------|
| 1. Basket ball  | 2. Volley ball |
| 3. Cricket      | 4. Badminton   |
| 5. Table Tennis | 6. Throw ball  |