



**Bal Bharati**  
PUBLIC SCHOOL

(An Institution of Child Education Society (Regd.), New  
Delhi)

NTPC Darlipali, Odisha

**SYLLABUS**  
**APRIL TO MARCH (SESSION 2023-24)**  
**CLASS -X**  
**ENGLISH**

**First Flight – Textbook in English**

**Footprints without feet– Supplementary Reader**

**APRIL**

**First Flight**

Letter to God  
Dust of snow (poem)  
Fire and Ice (poem)  
Nelson Mandela -  
Long Walk to  
Freedom

**Footprints without feet** Triumph of

Surgery

**Grammar**

Tenses and Verb Forms

## **Writing Task**

Letters to editor

## **JUNE**

**First Flight**  
Flying

Two Stories About

**Grammar**

Modals,

## **JULY**

**First Flight**  
Anne-

From the Diary of

Frank

(poem)

A tiger in the Zoo

How to Tell Wild  
Animals (poem)  
The Ball Poem

**Footprints without feet**

The Thief's Story  
The Midnight Visitor

**Grammar**  
Concord

Subject – Verb

## **AUGUST**

**First Flight**

Amanda! (poem)  
Glimpses of India  
The Trees (poem)

**Footprints without feet**  
**Grammar**

**Writing Task**

A Question of Trust  
Determiners, Gap  
filling  
Letter for Placing an  
Order

## **SEPTEMBER**

**First Flight**

Mijbil the Otter

**Grammar**  
**Writing Task**

Reported Speech  
Analytical writing

## **OCTOBER**

**First Flight**

Madam Rides the Bus  
The Sermon at Benares  
Fog (poem)  
Footprints Without Feet

**Footprints without feet**

## **NOVEMBER**

**First Flight**

The Proposal (Play)  
The Tale of Custard the  
Dragon

**Footprints without feet**

The making of a Scientist  
The necklace

**DECEMBER**

**First Flight**

For Anne Gregory

**Footprints without feet**

Bholi

The Book That Saved the  
Earth

## हिंदी

**स्पर्श भाग -2+संचयन भाग-2 (पाठ्यपुस्तक NCERT)**

**अप्रैल - मई**

स्पर्श भाग -२ -

काव्य - कबीर की साखी , मीरा के पद

कहानी -बड़े भाई साहब, डायरी का एक पन्ना

संचयन भाग -२-हरिहर काका

व्याकरण- अपठित गद्यांश , पदबंध

**जून - जुलाई**

स्पर्श भाग -२

काव्य- बिहारी के दोहे ,मनुष्यता,

कहानी -ततारा -वामीरो कथा

संचयन भाग -२ - सपनों के से दिन

व्याकरण- रचना के आधार पर वाक्य रूपांतर ,समास

**अगस्त-**

स्पर्श भाग -२

काव्य-पर्वत प्रदेश में पावस ,मधुर -मधुर मेरे दीपक जल  
कहानी-तीसरी कसम के शिल्पकार ,गिरगिट

संचयन भाग -२- टोपी शुक्ला

व्याकरण- मुहावरे ,अनुच्छेद लेखन ,औपचारिक पत्र  
लेखन ,सूचना लेखन

**सितम्बर ( अर्धवार्षिक परीक्षा )**

**अक्टूबर**

स्पर्श भाग-२

काव्य-तोप,कर चले हम फ़िदा

कहानी- अब कहाँ दूसरों के दुःख में दुखी होने वाले  
पतझर से टूटी पतियाँ

संचयन भाग -२-पुनरावृत्ति

व्याकरण- विज्ञापन लेखन ,ई मेल लेखन

**नवम्बर**

स्पर्श भाग-२

काव्य-आत्मत्राण

कहानी-कारतूस

संचयन भाग -२- पुनरावृत्ति

व्याकरण- लघुकथा लेखन

**दिसम्बर**

स्पर्श भाग -२- पुनरावृत्ति

संचयन भाग -२-पुनरावृत्ति

व्याकरण- पुनरावृत्ति

**जनवरी**

स्पर्श भाग -२- पुनरावृत्ति

संचयन भाग -२- पुनरावृत्ति

व्याकरण- पुनरावृत्ति

**फरवरी**

स्पर्श भाग -२- पुनरावृत्ति

संचयन भाग -२- पुनरावृत्ति

व्याकरण-पुनरावृत्ति

## **MATHEMATICS**

**Textbook: Mathematics for class – X by N.C.E.R.T.**

**Reference book: Mathematics Exemplar Problem of class- X by N.C.E.R.T**

**APRIL**

### **Unit – I NUMBER SYSTEMS**

#### **Chapter 1 : REAL NUMBERS**

1.1 Introduction

1.2 Euclid's Division Lemma

1.3 The Fundamental Theorem of Arithmetic

1.4 Revisiting Irrational Numbers

1.5 Revisiting Rational Numbers and Their Decimal Expansions

1.6 Summary

### **Unit – II ALGEBRA**

#### **Chapter 2 : POLYNOMIALS**

2.1 Introduction

2.2 Geometrical Meaning of the Zeroes of a Polynomial

2.3 Relationship between Zeroes and Coefficients of a Polynomial

2.4 Division Algorithm for Polynomials

#### **Chapter 3 : LINEAR EQUATIONS IN TWO VARIABLES**



- 3.1 Introduction
- 3.2 Pair of Linear Equations in Two Variables
- 3.3 Graphical Method of Solution of a Pair of Linear Equations
- 3.4 Algebraic Methods of Solving a Pair of Linear Equations
- 3.5 Equations Reducible to a Pair of Linear Equations in Two Variables

**MAY**

**Chapter 4: QUADRATIC EQUATION**

- 4.1 Introduction
- 4.2 Quadratic Equations
- 4.3 Solution of a Quadratic Equation by Factorization
- 4.4 Solution of a Quadratic Equation by Completing the Square
- 4.5 Nature of Roots

**JUNE**

**Chapter 5: ARITHMETIC PROGRESSIONS**

- 5.1 Introduction
- 5.2 Arithmetic Progressions
- 5.3  $n$ th Term of an AP
- 5.4 Sum of First  $n$  Terms of an AP

**JULY**

**UNIT III: COORDINATE GEOMETRY**

**Chapter 7: Coordinate Geometry**

- 7.1 Introduction

- 7.2 Distance Formula
- 7.3 Section Formula
- 7.4 Area of a Triangle

## **UNIT IV: GEOMETRY**

### **Chapter 6: TRIANGLES**

- 6.1 Introduction
- 6.2 Similar Figures
- 6.3 Similarity of Triangles
- 6.4 Criteria for Similarity of Triangles
- 6.5 Areas of Similar Triangles
- 6.6 Pythagoras Theorem

### **Chapter 10: CIRCLE**

- 10.1 Introduction
- 10.2 Tangent to a Circle
- 10.3 Number of Tangents from a Point on a Circle

## **AUGUST**

### **Chapter 11: CONSTRUCTIONS**

- 11.1 Introduction
- 11.2 Division of a Line Segment
- 11.3 Construction of Tangents to a Circle
- 11.4 Summary

### **Chapter 12: AREAS RELATED TO CIRCLES**

- 12.1 Introduction
- 12.2 Perimeter and Area of a Circle —

A Review

12.3 Areas of Sector and Segment of a Circle

12.4 Areas of Combinations of Plane Figures

**SEPTEMBER    Chapter 8: INTRODUCTION TO TRIGONOMETRY**

8.1 Introduction

8.2 Trigonometric Ratios

8.3 Trigonometric Ratios of Some Specific Angles

8.4 Trigonometric Ratios of Complementary Angles

8.5 Trigonometric Identities

**Chapter 9: SOME APPLICATIONS OF TRIGONOMETRY**

9.1 Introduction

9.2 Heights and Distances

**OCTOBER    Chapter 13: SURFACE AREAS AND VOLUMES**

13.1 Introduction

13.2 Surface Area of a Combination of Solids

13.3 Volume of a Combination of Solids

13.4 Conversion of Solid from One Shape to Another

13.5 Frustum of a Cone

**NOVEMBER**    **Chapter 14: STATISTICS**  
14.1 Introduction  
14.2 Mean of Grouped Data  
14.3 Mode of Grouped Data  
14.4 Median of Grouped Data  
14.5 Graphical Representation of  
Cumulative Frequency Distribution

**Chapter 15: PROBABILITY**  
15.1 Introduction  
15.2 Probability — A Theoretical  
Approach

**DECEMBER**    Revision

**JANUARY**    Revision

**FEBRUARY**    Revision

**MARCH**    Revision

## **GENERAL SCIENCE**

### **Prescribed Text Book :-NCERT SCIENCE-X**

#### **APRIL**

|            |                                                    |
|------------|----------------------------------------------------|
| Chapter-1  | Chemical Reactions and Equations (To be contd....) |
| Chapter-5  | Life Processes (To be contd....)                   |
| Chapter-11 | Electricity                                        |

#### **MAY – JUNE**

|           |                                  |
|-----------|----------------------------------|
| Chapter-1 | Chemical Reactions and Equations |
| Chapter-5 | Life Processes                   |

#### **JULY**

|            |                                          |
|------------|------------------------------------------|
| Chapter-2  | Acids, Bases and Salts (To be contd....) |
| Chapter-6  | Control & Co-ordination                  |
| Chapter-12 | Magnetic Effects of electric current     |

#### **AUGUST**

|            |                                                |
|------------|------------------------------------------------|
| Chapter-2  | Acids, Bases and Salts                         |
| Chapter-3  | Metals and Non-Metals(To be contd.....)        |
| Chapter-7  | How do organisms reproduce? (To be contd.....) |
| Chapter-13 | Our Environment                                |

#### **SEPTEMBER    Revision for Mid-Term Test**

## **OCTOBER**

|           |                                   |
|-----------|-----------------------------------|
| Chapter-3 | Metals and Non-Metals             |
| Chapter-7 | How do organisms reproduce?       |
| Chapter-9 | Light - Reflection and Refraction |

## **NOVEMBER**

|            |                                       |
|------------|---------------------------------------|
| Chapter-4  | Carbon and its Compounds              |
| Chapter-8  | Heredity                              |
| Chapter-10 | The Human Eye and the Colourful World |

**DECEMBER**    Pre-Board Exam

**JANUARY**    Revision for Board Exam

**FEBRUARY**    Revision for Board Exam

## **SOCIAL STUDIES**

### **Prescribed Text Book:-**

**History- India and the Contemporary World – II**

**Geography - Contemporary India – II**

**Civics- Democratic Politics – II**

**Economics-Understanding Economic Development**

**Publisher: NCERT**

### **APRIL**

Political Science: Chapter 1. Power Sharing

History: Chapter 1. The Rise of Nationalism  
in Europe

Economics: Chapter 1. Development

Geography: Chapter 1. Resources and  
Development

### **MAY-JUNE**

Geography: Chapter 2. Forest and  
Wildlife Resources

History: Chapter 2 Nationalism in India

### **JULY**

Geography: Chapter 3. Water  
Resources

Political Science: Chapter 2. Federalism

Economics: Chapter 2. Sectors of the  
Indian Economy

### **AUGUST**

Geography: Chapter 4. Agriculture

History: Chapter 3. The Making of  
a Global World

Political Science: Chapter 3. Gender, Religion and Caste

Economics: Chapter 3.  
Money and Credit

### **SEPTEMBER**

Economics: Chapter 4.  
Globalization and the Indian

Economy

Geography: Chapter 5. Minerals and Energy Resources

Political Science: Chapter 4. Political Parties

### **OCTOBER**

Political Science: Chapter 5. Outcomes of Democracy

History: Chapter 4. The age of Industrialization

Geography: Chapter 6. Manufacturing Industries

### **NOVEMBER**

Geography: Chapter 7. Lifelines of National Economy

History: Chapter 5. Print Culture and the Modern World

Economics: Chapter 5.  
Consumer Rights

### **DECEMBER - JANUARY**

Pre- Board Examination- I

### **FEBRUARY - MARCH**

Annual Examination



## **INFORMATION TECHNOLOGY (IT)**

Prescribed Text Book: - Information Technology  
Code-402

Name of the Publisher - Cordova

### **APRIL-MAY**

Unit- 1- Communication Skills-II

### **JUNE - JULY**

Unit-2- Self Management Skills-II

### **AUGUST**

Unit-3 - Information and Communication  
Technology Skills-II

### **SEPTEMBER - OCTOBER**

Unit-4- Entrepreneurial Skills-II

Unit-5 - Green Skills-II

### **NOVEMBER**

Unit-6- Digital Documentation(Advanced)

### **DECEMBER**

Unit-7- Electronic Spreadsheet(Advanced)

Unit-8- Database management System

### **JANUARY**

Unit-9- Web Application and Security

### **FEBRUARY**

Revision

### **MARCH**

Annual Examination

## **PHYSICAL EDUCATION**

### **APRIL**

Badminton, Football, Kho-Kho, Volleyball, and Indoor Games.

### **MAY-JUNE**

Introduction of Physical Education, Introduction of Physical Fitness,

First Aid and Emergency Handling, Tournaments, Test and Measurement in

### **SEWA PROGRAM**

### **JULY-AUGUST**

### **OCTOBER- NOVEMBER**

Social Empowerment through work Education and Action)

### **Safety Education**

Meaning & Importance of Safety Education.

Safety measures against injuries and drowning, accident in play fields.

Safety in class room & play fields.

Concept of civil defence & its role.

## **DECEMBER- JANUARY**

### **Game /sport (any game /sport of**

History of the game /sport (any one game / sport of

Student's choice offered by the school).

Measurement of playfield & Specification of sports equipment

Important National Level Tournaments & their Venues.

Sports personalities

## **FEBRUARY**

Nutrition

Concept of Balance Diet.

Components of Balance Diet.

Healthy food habits.

## **DANCE**

### **APRIL & MAY**

- 1 Introduction of Classical Dance
- 2 Classical Dance Guru Vanadana
- 3 Bharatnatyam lesson-2 Natta adavu no 1 to 8

### **JULY- AUGUST**

- 1 Introduction of Fusion Dance
- 2 Bharatnatyam lesson-3 Pakka adavu no 1 to 10
3. Odissi Dance Basic Steps
4. Introduction of Western dance and Classical dance
5. Patriotic Dance

### **SEPTEMBER- NOVEMBER**

1. Bharatnatyam Item-kritanm
2. Odissi Dance basic steps
3. An Introduction of famous classical dancers a of India.
4. Saraswati Vandana

### **DECEMBER- JANUARY**

1. Annual Day prepration
2. Winter break

3. Group formation of folk dance

4. Republic day preparation

### **FEBRUARY-MARCH**

1 Bharatnatyam Dance Pakka Adavu

2 Practical test

3 Basic steps of Odissi Dance

### **MUSIC**

#### **APRIL**

Revision of Sargam

Revision of Alankars 1 to 5

#### **MAY**

Community Song

Folk Song

#### **JUNE**

Recitation of the Thekas of the prescribed talas.

Thekas of teentaal, jhaptaal and ektaal.

#### **JULY**

Aaroh, avroh, pakad and drut khayal with few aalaps and tanas in raag Ahir Bhairav

## **AUGUST**

Patriotic Song

Topics continued

Notation of Dadra and Keherwa Taal

## **SEPTEMBER**

Keyboard or Harmonium Practice (ye dosti hum nahi chodenge)

SA-1 (Half Yearly Examination)

## **OCTOBER**

Kayda, Palta and Tihai in Teentaal

Dusshehra break

## **NOVEMBER**

Annual day practice

Rhythm preparation on musical instruments

## **DECEMBER**

Annual Day Practice

Band Formation

Thekas on Keherwa and Dadra

## **JANUARY**

Topic (Patriotism/Assignment)

Winter Break

Republic day preparation

Basic techniques and bols of tabla

**FEBRUARY**

Assignment Test

Practical Test

**MARCH**

Revision for the Annual Examination