

# BAL BHARATI PUBLIC SCHOOL, NTPC SIPAT

## Syllabus Plan for the Session 2021-22

### CLASS XI

## Subject- ENGLISH CORE

### LEARNING OBJECTIVES

Through the study of English, the students will:

1. Gain an introductory knowledge of some of the issues explored in influential works of the English-language tradition, and of some of the stylistic strategies writers have used to explore those issues.
2. Read and interpret complex texts actively: recognize key passages; raise questions; appreciate complexity and ambiguity; comprehend the literal and figurative uses of language.
3. Practice writing as a process of motivated inquiry, engaging other writers' ideas through the use of quotations, paraphrase, allusions and summary.
4. Increase confidence in speaking publicly; articulate clear questions and ideas in class discussion; listen thoughtfully and respectfully to others' ideas; and prepare, organize, and deliver engaging oral presentations.
5. Attend to a wider range of voices within and across cultures.
6. Enjoy the experience of reading challenging literature: appreciate literature's ability to elicit feeling, cultivate the imagination, and call us to account as humans.

### TEXT BOOKS

Main Textbook: HORNBILL

Supplementary Reader: SNAPSHOTS

### SUGGESTED READINGS

Oxford Advanced Learner's Dictionary, Oxford Thesaurus, Longman Advanced Grammar

MONTH	WORKING DAYS	COURSE CONTENT
APRIL	22	<b>READING:</b> Unseen passage/ poem <b>WRITING:</b> Speech/Debate, Article, Notice, <b>LITERATURE:</b> HORNBILL: The Portrait of a Lady ,A Photograph SNAPSHOTS: The Summer of the Beautiful Horse
JUNE	13	<b>READING:</b> Unseen passage <b>WRITING:</b> Article, Factual Description <b>LITERATURE:</b> HORNBILL: We're Not Afraid to Die.... , The laburnum top SNAPSHOTS: The Address
JULY	25	<b>READING:</b> Unseen passage (Note Making) <b>WRITING:</b> Classified Advertisement, Letter Writing <b>LITERATURE:</b> HORNBILL: Discovering Tut , Landscape of the soul, <i>The Voice of the Rain</i> SNAPSHOTS: Ranga's Marriage
AUGUST	22	<b>READING:</b> Unseen passage <b>WRITING:</b> Letter Writing/ Poster Drafting <b>LITERATURE:</b> HORNBILL: The Ailing Planet , The Browning Version, <i>Childhood</i> SNAPSHOTS: Albert Einstein at School

<b>SEPTEMBER</b>	<b>23</b>	<b>REVISION</b>
<b>OCTOBER</b>	<b>17</b>	<b>READING:</b> <i>Unseen Passage</i> <b>WRITING:</b> <i>Letter Writing</i> <b>LITERATURE:</b> <i>HORNBILL: Adventure, Silk Road, Father to Son</i>
<b>NOVEMBER</b>	<b>17</b>	<b>READING:</b> <i>Unseen passage (Note Making)</i> <b>WRITING:</b> <i>Invitations</i> <b>SNAPSHOTS:</b> <i>Mother's Day , The ghat of the only world</i>
<b>DECEMBER</b>	<b>19</b>	<b>READING:</b> <i>Unseen passage (Note Making)</i> <b>WRITING:</b> <i>Invitations</i> <b>SNAPSHOTS:</b> <i>Birth ,The Tale of Melon City</i>
<b>JANUARY</b>	<b>22</b>	<b>REVISION FOR ANNUAL EXAM</b>
SYLLABUS FOR EXAMS	Unit 1	Unseen Passage, Article, The Portrait of a Lady ,A Photograph The Summer of the Beautiful Horse , We're Not Afraid to Die.... , The laburnum top, <i>Jumbled Sentence</i>
	Half Yearly	All topics covered till August
	Unit 2	Unseen Passage, Report, Adventure, Birth, Father to Son, Mother's Day, Silk Road, The ghat of the only world.
	Annual Exam	Whole syllabus as per C.B.S.E

### SUGGESTIONS TO PARENTS:

1. Encourage your child to read magazines and books in English
2. Engage your child in some writing task regularly (eg. writing emails/ letters/ creative writing)
3. Keep regular contact with the teacher to

## Subject – MATHEMATICS

monitor your child's progress

### LEARNING OBJECTIVES

1. To enable the students to reinforce mathematical skills and reasoning through clear arguments.
2. To strengthen the concepts developed at the secondary stage to provide firm

**TEXT BOOK :** MATHEMATICS- NCERT

**RECOMMENDED BOOKS:** Together with mathematics, R.D. SHARMA

TERM/ MONTH	NO. OF WORKING DAYS	COURSE CONTENT
<b>June</b>	<b>13</b>	Chapter 3: Trigonometric Functions

<b>July</b>	<b>25</b>	Chapter 7: Permutations and Combinations: Chapter 8 : Binomial Theorem Chapter 5: Complex numbers and Quadratic Equations
<b>August</b>	<b>22</b>	Chapter 1: Sets Chapter 2: Relations and Functions Chapter 4: Principle of Mathematical Induction
<b>September</b>	<b>23</b>	Chapter 10: Straight Lines Chapter 11: Conic sections
<b>October</b>	<b>17</b>	Chapter 12: Introduction to Three Dimensional Geometry Chapter 6: Linear Inequalities
<b>November</b>	<b>27</b>	Chapter 13: Limits and Derivatives
<b>December</b>	<b>19</b>	Chapter 15: Statistics Chapter 14: Mathematical Reasoning Chapter 16: Probability
<b>January</b>	<b>22</b>	Revision
<b>February</b>	<b>22</b>	Annual Examination
	<b>UT 1</b>	All topics covered in the months of April-June
	<b>Half yearly</b>	All topics covered in the months of April-August
	<b>UT2</b>	Conic section, Limits and Derivatives
	<b>Annual Examination</b>	Whole Syllabus

## Physics

### LEARNING OBJECTIVES

1. To develop reasoning abilities in a systematic manner
2. To develop scientific thirst and attitude.
3. To enable students to be more creative and develop skills for solving scientific problems.
4. To know about matter and its classification and properties
5. To develop the ability to apply knowledge of science in day-to-day life.
6. To know about mechanics, motion, energy and basic theory of sound.

#### **TEXT BOOK-**

1. NCERT
- 2 .S.L ARORA
- 3.PRADEEP

<b>Month</b>	<b>No. of working days</b>	<b>Course content</b>
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July	25	Unit 1: (a) Physical world (b) Unit and Measurement Unit 2 Kinematics
Aug	22	Unit 2 Kinematics Unit 3: Force and laws of motion
Sept	23	Unit -4: Work energy and power
Oct	17	Unit -6: Gravitation
Nov	17	Unit 5: Motion of the particles & rigid body
Dec	19	Unit 5: Motion of the particles & rigid body Unit 7: Properties of bulk matter
Jan	22	Unit -8: Thermodynamics Unit -9: Behavior of perfect gas & kinetic theory of gases
Feb	22	Unit -10: Oscillations & waves
March	23	Revision
UNIT I		Unit 1: physical world & measurement Unit 2 Kinematics, 3: Force and laws of motion
HALF, YEARLY, EXAM		Unit 1: physical world & measurement, Unit 2 Kinematics Unit 3: Force and laws of motion, Unit -4: Work energy and power Unit -6: Gravitation
UNIT II		Unit 5: Motion of the particles & rigid body Unit 7: Properties of bulk matter, Unit -9: Behavior of perfect gas & kinetic theory of gases
YEARLY		Whole Syllabus

Keep regular contact with the teacher to monitor your child's progress

## Subject-Chemistry

### **LEARNING OBJECTIVES**

1. To enhance scientific approach and attitude in students mind.
2. To grasp the concepts and ideas related to science.

### **RECOMMENDED BOOKS -1. Ncert Chemistry Vol.1 and 2**

**2. Refresher Chemistry Pradeep.**

**3. Sample paper Arihant or together with**

**4. Practical Manual Comprehensive.**

MONTH	WORKING DAYS	COURSE CONTENT
April		
June	13	Unit-1 Basic Concepts of Chemistry
JULY	25	Unit2-Structure of atom Unit3-Classification of elements and Periodicity Unit-4 Chemical Bonding

<b>AUGUST</b>	<b>22</b>	<b>Unit-5 States of matter Unit-6 Thermodynamics Unit7-Equilibrium</b>
<b>SEPTEMBER</b>	<b>23</b>	<b>Unit-8 Redox reaction Unit-9 Hydrogen Unit-10 S block elements</b>
<b>OCTOBER</b>	<b>17</b>	<b>Unit11-some p block elements Unit 12-Organic Chemistry basic concepts</b>
<b>NOVEMBER</b>	<b>17</b>	<b>Unit13-Hydrocarbons Unit-14 Green Chemistry</b>
<b>DECEMBER</b>	<b>19</b>	<b>Revision</b>
<b>JANUARY</b>	<b>22</b>	<b>Revision</b>
<b>FEBRUARY</b>	<b>22</b>	<b>Exam</b>
<b>SYLLABUS FOR EXAMS</b>	<b>UT-I</b>	Unit1-3
	<b>UT-II</b>	Unit 4-7
	<b>Half yearly UT_3</b>	Part 1 book Unit8-11
	<b>Yearly Exam</b>	Unit1-14

## **Subject-BIOLOGY**

### **LEARNING OBJECTIVES**

1. To develop reasoning abilities in a systematic manner.
2. To develop scientific thirst and attitude.
3. To enable students to be more creative and develop skills for solving scientific problems.
4. To sharpen observations and inculcate the spirit of exploration.
5. To develop the ability to apply knowledge of science in day-to-day life.

**TEXT BOOK- NCERT, Ratna sagar and Veer Bala Rastogi**

<b>MONTH</b>	<b>WORKING DAYS</b>	<b>COURSE CONTENT</b>
<b>JUNE</b>	<b>13</b>	<b>UNIT I Diversity in Living World</b> Chapter 1 Diversity in living world Chapter 2 Classification Chapter 3 Plant kingdom Chapter 4 Animal Kingdom <b>Practical Work</b> Study of the specimens and identification with reasons-Bacteria, oscillatoria, monocotyledon and one dicotyledon and one lichen.

		Study of specimens and identification with reasons-Amoeba, Hydra, Liverfluke, Ascaris, Leech, Earthworm, Prawn, Silkworm, Honeybee, Snail, Starfish, Rohu, Frog, Lizard, Pigeon and rabbit.
<b>JULY</b>	<b>25</b>	<b>UNIT II Structural Organization in Plants and Animals</b> Chapter 5 Morphology of Flowering Plants Chapter 6 Anatomy of Flowering Plants Chapter 7 Structural & anatomical features in animals. <b>Practical Work</b> Study of tissues, and diversity in shapes and sizes of plant and animal cells (e.g. palisade cells, guard cells, parenchyma, collenchyma, sclerenchyma, Xylem, Phloem, Squamous epithelium, Muscle fibers and mammalian blood smear) through temporary/Permanent slides. Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides
<b>AUGUST</b>	<b>22</b>	<b>UNIT III Cell</b> Chapter 8 Cell - The Unit of Life Chapter 9 Bio molecules Chapter 10 Cell division and cell cycle
<b>SEPTEMBER</b>	<b>23</b>	<b>Practical Work:</b> Study of osmosis by potato osmometer Study of plasmolysis in epidermal peels (e.g. Rhoeo Leaves)Revision & SA-1 exam
<b>OCTOBER</b>	<b>17</b>	<b>UNIT IV PLANT PHYSIOLOGY</b> Chapter 11: Transport in Plants Chapter 12: Mineral nutrition in Plants Chapter 13: Photosynthesis in Plants Chapter 14: Respiration in Plants Chapter 15: Growth & development in Plants
<b>NOVEMBER</b>	<b>17</b>	<b>UNIT V: HUMAN PHYSIOLOGY</b> Chapter 16: Digestion and absorption Chapter 17: Breathing and respiration Chapter 18: Body fluids and circulation Chapter 19: Excretory products and elimination <b>Practical Work:</b> 1. To test the activity of salivary amylase on starch 2. To test the activity of salivary amylase on starch at different temperatures
<b>DECEMBER</b>	<b>19</b>	Revision of Unit-IV and Unit-V covered up till the month of November.
<b>JANUARY</b>	<b>22</b>	Chapter 20 Locomotion and movement. Chapter 21 Control and coordination

		Chapter 22 Nervous System
<b>FEBRUARY</b>	<b>22</b>	Revision for Annual Examination and Final Practical Exam.
<b>SYLLABUS FOR EXAMS</b>		Annual Exam
	<b>UNIT I</b>	All topics covered in June i.e. UNIT I
	<b>UNIT II</b>	All topics covered in June & July i.e. Unit II & III
	<b>HALF YEARLY</b>	Unit I, II,III
	<b>UNIT III</b>	Unit IV
	<b>UNIT IV</b>	UNIT V
	<b>ANNUAL EXAM</b>	Whole Syllabus with practicals.

## Sub-Computer Science

### LEARNING OBJECTIVES

1. Develop basic computational thinking. Learn how to reason with variables, state transitions, conditionals, and iteration.
2. Understand the notion of data types, and higher order data structures such as lists, tuples, and dictionaries.
3. Appreciate the notion of an algorithm, and understand its structure, including how algorithms handle corner cases.
4. Develop a basic understanding of computer systems - architecture, OS, mobile and cloud computing.
5. Learn basic SQL programming.
6. Learn all about cyber safety.

### RECOMMENDED BOOKS

**Computer Science with Python TextBook for Class XI**

**Author:- Sumita Arora**

MONTH	NO. OF WORKING DAYS	COURSE CONTENT
<b>June</b>	13	Ch 6- Getting Started with Python Ch 7- Python Fundamentals
<b>July</b>	25	Ch 8- Data Handling Ch 1- Computer System Overview
<b>August</b>	22	Ch 2- Data Representation Ch 4- Insight into program Execution Ch 5- introduction to Problem Solving

<b>September</b>	23	Revision of syllabus for Half yearly exam
<b>October</b>	17	Ch 9- Flow of Control Ch 10- String Manipulation Ch 11- List Manipulation
<b>November</b>	17	Ch 12- Tuple Ch 13- Dictionaries Ch 3- Boolean Logic
<b>December</b>	22	Ch-15 Cyber Safety Ch-16 Online Access and Computer Security Ch-17 Society Law and Ethics
<b>January</b>	22	Revision of entire syllabus
<b>February</b>	23	Revision of entire syllabus
<b>SYLLABUS</b>	I Unit Test	Ch- 6,7
	Half yearly	Ch- 1,2,4,5,6,7,8
	II Unit Test	Ch- 9,10,11,12
	Annual	Entire Syllabus