


Abhinav Bharati High School

17 Pretoria Street, Kolkata 700071



www.abhinavbharati.co.in

 abhs.cal@gmail.com / abhsprimary@gmail.com

Syllabus for Academic Year – 2021-2022

(Primary Section)

Class - 8

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : VIII

Subject : English

| MONTH | LITERATURE | LANGUAGE |
|-----------|---|--|
| APRIL | Patanquin Bearens | Conjunctions Editing |
| MAY | Dead Man travelling The gift of magi (Rapid) | Idioms |
| JUNE | The ant and the grasshopper | Tenses |
| JULY | The ant of blogging The stave's Dream | Writing skills (Letter) Comprehension |
| AUGUST | The rise of the ancient Mariner | Prepositions |
| SEPTEMBER | Mrs . Packletides Tiger (Rapid) | Modals Voices |
| OCTOBER | The letter A | Writing skills (story writing) |
| NOVEMBER | The Liar | Finite and Non finite verbs |
| DECEMBER | The night Train at Delhi | Subject verb agreement |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : VIII

Subject : Mathematics

| MONTH | CHAPTERS | TOPIC |
|---------------------------|--|--|
| APRIL+ JUNE | 1. Rational Numbers | Addition of Rational numbers |
| | | Subtraction of Rational numbers |
| | | Properties |
| | | Multiplication and Division of Rational numbers and their properties |
| | 2. Exponent | Laws of exponent |
| | | Use of exponent |
| 3. Square and Square root | Finding Square and Square roots | |
| 4. Polygons | Classification of Polygon Types of Polygons No. of diagonals of Polygon Sum of the measures of the interior angle of the polygon. | |
| JULY | 5. Cube and Cube Roots | Finding Cube and cube root |
| | 6. Percentage | Finding the increase or decrease percentage |
| | | Problem sums on percentage |
| AUGUST + SEPTEMBER | 7. Algebraic Expressions | Addition, Subtraction, Multiplication, Division |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : VIII

Subject : Mathematics

| | | |
|-----------------------------------|--|---|
| | 8. Profit, Loss and Discount | Problem sums on profit, loss and discount |
| | | Finding Profit % and Loss % |
| | 9. Compound Interest | Calculation of Compound Interest |
| | | Application of Compound Interest formula |
| OCTOBER | 10. Factorization | When each term contains a common monomial |
| | | When each term contains a common binomial |
| | | Factorization by grouping/regrouping |
| | | Factorization using identities |
| | Factorization of quadratic Trinomial | |
| 11. Direct and Inverse proportion | Application of Direct and Inverse proportion | |

| | | |
|----------|-------------------------------------|--|
| NOVEMBER | 12. Time & Work | Problem sums on Time and work including Pipes and Cistern Problems |
| | 13. Linear Equation in one Variable | Solving of Linear equation in one variable and their application |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : VIII

Subject : Mathematics

| | | |
|--|-------------------------------------|--|
| DECEMBER | 14. Quadrilaterals | Angle Sum property of a quadrilateral |
| | 15. Special types of Quadrilaterals | |
| | | Different types of Quadrilaterals Properties of Parallelogram |
| * Some chapter are excluded for this year only | | |
| ** Name of books: | 1. Number Magic by Ratna Sagar | |
| | 2. CoNCERT by ORIENT BLACKSWAN | |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

| MONTH | UNIT | CHAPTER | SUB – TOPIC |
|-------------|------|------------------|--|
| APRIL – MAY | 08 | FORCE & PRESSURE | <ul style="list-style-type: none">• INTRODUCTION• WHAT IS FORCE AND WHAT ARE ITS EFFECTS• TYPES OF FORCE- CONTACT AND NON-CONTACT FORCES1. FRICTION FORCE<ul style="list-style-type: none">I. DEFINITION AND ORIGINII. FORCE OF LIMITING FRICTIONIII. FACTORS EFFECTING FRICTIONIV. STATIC AND KINETIC FRICTIONV. WHY FRICTION IS CALLED NECESSARY EVILVI. METHODS OF INCREASING AND DECREASING FRICTION2. MAGNETIC FORCE<ul style="list-style-type: none">I. DEFINITIONII. ATTRACTIVE AND DIRECTIVE PROPERTIES OF MAGNETSIII. REPULSION IS A TEST OF MAGNETISM |
| JUNE | | | <ul style="list-style-type: none">3. ELECTROSTATIC FORCE4. GRAVITATIONAL FORCE<ul style="list-style-type: none">I. DEFINITIONII. CONCEPT OF MASS AND WEIGHTIII. UNITS OF FORCEIV. PRESSURE- DEFINITION AND UNITSV. ATMOSPHERIC PRESSUREVI. MEASUREMENT OF PRESSURE |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

| | | | |
|--------|----|-------------------------|--|
| JULY | 09 | SOUND | <ul style="list-style-type: none">• INTRODUCTION• HOW SOUND IS PRODUCED• PROPAGATION OF SOUND• WHAT ARE AMPLITUDE, TIME PERIOD AND FREQUENCY OF OSCILLATION• HOW DO WE HEAR SOUND?• CHARACTERISTICS OF SOUND• FUNCTION OF HUMAN EAR• ECHOES AND REVERBERATIONS |
| AUGUST | 10 | ELECTRICITY & LIGHTNESS | <ul style="list-style-type: none">• INTRODUCTION• ELECTRIC CHARGES• ELECTROSTATIC FORCE BETWEEN CHARGED PARTICLES• HOW AN OBJECT GETS CHARGED• CHARGING BY CONDUCTION• CHARGING BY INDUCTION• DETECTION AND MEASURING OF CHARGES GOLD LEAF ELECTROSCOPE• FLOW OF CHARGES IN INDUCTOR SEARCHING• SPARKS AND LIGHTING• LIGHTING CONDUCTOR |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

- REFLECTION OF LIGHT
REGULAR REFLECTION
1. REGULAR REFLECTION
 2. DIFFUSE REFLECTION
 3. LAWS OF REFLECTION
 - I. INCIDENT RAY
 - II. NORMAL
 - III. REFLECTED RAY
 - IV. ANGLE OF INCIDENCE & REFLECTION
- IMAGE FORMED BY MIRROR
 1. REAL IMAGE
 2. VIRTUAL IMAGE
 3. LATERAL INVERSION
 4. MULTIPLE REFLECTION
 - DISPERSION OF LIGHT
 1. LIGHT REFRACTION
 2. FORMATION OF SPECTRUM
 - HUMAN EYE
 1. STRUCTURE OF EYE AND FUNCTION OF ITS DIFFERENT PARTS
 - DEFECTS OF VISION
 - THE WORLD OF BLIND
 1. BRAILLE

NOVEMBER-
DECEMBER

13

OUR UNIVERSE

- INTRODUCTION
- CELESTIAL BODIES
- UNITS FOR MEASURING ASTRONOMICAL DISTANCES
- LIGHT YEAR
- PARSEC
- STARS
- GALAXIES
- CONSTELLATIONS
- THE SOLAR SYSTEM
- ASTEROIDS
- METEORS & METEOROIDS

JANUARY REVISION

CHEMISTRY

| MONTH | UNIT | TOPIC | SUB – TOPIC |
|-------------|------|---------------------|--|
| JUNE / JULY | 5 | SYNTHETIC MATERIAL | <ul style="list-style-type: none"> • Synthetic fibres (Rayon, Polyester, Polyamide, Acrylic) • Other uses of Synthetic Polymers (Plastic, Rubber, Adhesive) • Some important properties of Synthetic material (Tensile Strength, Thermal, Electrical, Conductivity) |
| AUGUST | 6 | METAL AND NON-METAL | <ul style="list-style-type: none"> • Physical properties • Chemical behaviours of metals • Chemical behaviours of non-metals • Uses of metals and non – metals |
| SEPTEMBER | 7 | COMBUSTION AND FUEL | <ul style="list-style-type: none"> • Thermal energy and related terms • Types of fuels • How to make good • Burning of a candle |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

| | | | |
|----------|----|---------------------------------------|---|
| NOVEMBER | 11 | CHEMICAL EFFECT OF ELECTRICAL CURRENT | <ul style="list-style-type: none">• Introduction• Electricity through different substances• Electrolysis |
| DECEMBER | 16 | POLLUTION OF AIR AND WATER | <ul style="list-style-type: none">• Pollution of air• Pollution of water• Some polluted rivers in India• Potable water |

BIOLOGY

| MONTHS | UNIT | TOPIC | SUB – TOPIC |
|--------|------|---------------|---|
| JUNE | 3 | MICROORGANISM | I. Introduction <ul style="list-style-type: none">• Algae• Bacteria• Algae – Habitat Structure Advantages Eutrophication Nutrition• Bacteria –Habitat, Structure Useful Bacteria |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

| | | | |
|--------|---|--|---|
| | | | Harmful Bacteria Nutrition |
| | | ACTIVITY ON FUNGI – BREAD MOULD | II. Fungi – Habitat <ul style="list-style-type: none"> • Structure <ol style="list-style-type: none"> i. Yeast ii. Mould • Nutrition • Useful fungi • Harmful fungi III. Protozoa – Habitat <ul style="list-style-type: none"> • Structure • Nutrition • Useful protozoa • Harmful protozoa IV. Viruses <ul style="list-style-type: none"> • Structure • Viral diseases of plants and animals Preservation of food Question – answer discussion |
| | 1 | (AGRICULTURE) FOOD PRODUCTION | I. Introduction <ol style="list-style-type: none"> i. Preparing the soil ii. Sowing needs iii. Improving soil fertility iv. Crop protection |
| JULY | 1 | FOOD PRODUCTION | v. Crop harvesting and storage vi. Food from animals Question and answers |
| | 2 | THE CELL Activity | I. Introduction: Types of Cells Observing Cells under a microscope – Plant & animal II. Structure of Cell III. Types of tissues <ol style="list-style-type: none"> i. Plant tissue ii. Animal tissue Question – answer discussion |
| AUGUST | 4 | REPRODUCTION Activity STUDEY OF PLANT AND ANIMAL CELL | Introduction I. Sextual reproduction in animals <ol style="list-style-type: none"> i. Types of fertilization II. Reproduction in man <ol style="list-style-type: none"> i. The male reproductive system ii. The female reproductive system iii. Fertilization, Pregnancy and childbirth iv. The menstrual cycle v. The endocrine system vi. Gender and sex vii. Sexdetermination Question – answer discussion |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

| | | | |
|-----------|----|----------------------|---------------------------|
| SEPTEMBER | 15 | NATURAL RESOURCES | I. Introduction Forest |
|-----------|----|----------------------|---------------------------|

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

| | | | |
|----------|----|--------------|--|
| | | | <ul style="list-style-type: none">i. Deforestationii. Reasonsiii. Impact <ul style="list-style-type: none">II. Fossil fuel<ul style="list-style-type: none">i. Formationii. Utilizationiii. ProblemsIII. Alternate energy sources <p>Question – answer discussion</p> |
| OCTOBER | 17 | CONSERVATION | <ul style="list-style-type: none">I. IntroductionI. BiodiversityII. Loss of biodiversity<ul style="list-style-type: none">i. Reasonsii. ImpactIII. Red data BookMega diversity – IndiaIV. Protection of biodiversity |
| NOVEMBER | 17 | CONSERVATION | <ul style="list-style-type: none">V. Conservation –<ul style="list-style-type: none">IntroductionConservation in IndiaDiscussion about plans and programmes to conserve biodiversityVI. People’s participation<ul style="list-style-type: none">i. The Chipko Andolanii. Joint Forest management <p>Question – answer discussion</p> |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Class : VIII

Subject : Physics

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : 8 (SST)

Subject : Geography

| MONTH | CHAPTER | TOPIC |
|-------|--|--|
| APRIL | Ch-1 Resources | <ul style="list-style-type: none">• Introduction• Define• Natural Resources |
| MAY | Ch-1 Resources | <ul style="list-style-type: none">• Classification on variation baics• Man made resources• Human resources |
| JUNE | Ch-2 Natural Resources soil , water | <ul style="list-style-type: none">• Conservation of resources• Land use• Factors / Landslides |
| JULY | Ch-2 Natural Resources soil , water | <ul style="list-style-type: none">• Soil resources• Soil formation• Water resource |
| AUG | Ch-3 Not. Veg & wildlife | <ul style="list-style-type: none">• Nat. veg (forest)• Types of forest |
| SEPT | Ch-3 Not. Veg & wildlife | <ul style="list-style-type: none">• Forest fire• Conservation of Not. Veg wildlife |
| OCT | Ch-9 Human resources | <ul style="list-style-type: none">• Population /pop change• Factors affecting |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : 8 (SST)

Subject : Geography

| | | |
|-----|------------------|---|
| | | popu. |
| NOV | | <ul style="list-style-type: none">• Age composition Pupn. Pyramid |
| DEC | Ch-5 Agriculture | |

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class :8

Subject : Bengali

FIRST TERM

BichitraPath

- লালনীল
- বানরওকুমির
- গ্রামেরযাত্রা
- ভালোবাসি
- যখনকারযাতখনকারতা

Grammar

- বিপরিতার্থকশব্দ
- সমোচ্চারিতভিন্নার্থকশব্দ
- এককথায়প্রকাশ

Unseen

- বোধপরীক্ষণ (comprehension)

SECOND /FINAL TERM

Bichitra Path

- লাডাকেরবুনোহাঁস
- সমুদ্রেরজলনোনাকেন
- মহিষাশুর
- লড়বেনাকি
- ধার্মিকবক
- মা

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Grammar

- বিপৰিতাৰ্থকশৰ্দ
- সমোচ্চাৰিতভিন্নাত্ৰ্থকশৰ্দ
- এককথায়প্রকাশ

Unseen

- বোধপৰীক্ষণ(comprehension)

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year - 2021-2022

Class : VIII

Subject : History and civics

| | |
|-----------|------------------------------------|
| APRIL | The Modern Period |
| JUNE | The Indian constitution |
| JULY | The Establishment of company power |
| AUGUST | The judiciary |
| SEPTEMBER | Revolt of 1857 |
| OCTOBER | Law and social Justice |
| NOVEMBER | Education and British Rule |
| DECEMBER | Women and Reform |

| | |
|---------|-----------|
| HISTORY | 5 chapter |
| CIVICS | 3 chapter |

ABHINAV BHARATI HIGH SCHOOL
Secondary & Senior Secondary Section
Syllabus For Academic Year-2021-2022

Class : 8

Subject : HINDI

प्रथम सत्र

अप्रैल

सुनहरी धूप : ग्राम श्री (कविता), कर्तव्यबोध

नंदिनी : नचिकेता

व्याकरण : भाषा, लिपि, बोली और व्याकरण

लेखन - कौशल : अनुच्छेद लेखन

मई

सुनहरी धूप : परीक्षा

व्याकरण : संधि (स्वर संधि, व्यंजन संधि)

लेखन - कौशल : पत्र लेखन, अपठित गद्यांश

जून

सुनहरी धूप : यह धरती कितना देती है

व्याकरण : शब्द - विचार, उपसर्ग - प्रत्यय

लेखन - कौशल : संवाद लेखन, अपठित गद्यांश

जुलाई

सुनहरी धूप : चिकित्सा का चक्कर

नंदिनी : महर्षि दयानंद सरस्वती

व्याकरण : समास, संधि

लेखन - कौशल : चित्र वर्णन, अनुच्छेद लेखन

अगस्त

सुनहरी धूप : क्या निराश हुआ जाए

व्याकरण : समास, पुनरावृत्ति कार्य

लेखन - कौशल : संवाद लेखन, अनुच्छेद लेखन

ABHINAV BHARATI HIGH SCHOOL
Secondary & Senior Secondary Section
Syllabus For Academic Year-2021-2022

Class : 8

Subject : HINDI

द्वितीय सत्र

सितंबर

सुनहरी धूप : श्रीराम की बाल लीला

नंदिनी : आचार्य विनोबा भावे

व्याकरण : अव्यय, वाक्य - विचार

लेखन -कौशल : विज्ञापन - लेखन

अक्टूबर

सुनहरी धूप : गोशाला

व्याकरण : पद परिचय

लेखन -कौशल : निबंध लेखन, पत्र लेखन

नवंबर

सुनहरी धूप : कुछ मनभावन खेल

व्याकरण: अव्यय, वाक्य - विचार, पद परिचय

लेखन -कौशल : लघुकथा लेखन

दिसंबर

सुनहरी धूप: सत्कर्तव्य

नंदिनी : सरोजिनी नायडू

व्याकरण: अलंकार

लेखन कौशल: अपठित गद्यांश

जनवरी

सुनहरी धूप: बिंदा , तुम कल्पना करो

व्याकरण: पुनरावृत्ति कार्य

लेखन -कौशल: लघुकथा लेखन।

Abhinav Bharati High School

Secondary & Senior Secondary Section
Syllabus for Academic Year – 2021-2022

Syllabus for the year 2021-2022

Class -8

Sub: Computer

Term I :

Ch. 3 : Table, Hyperlinks and Forms in HTML

Ch. 4 : Database Management System

Ch. 5 : MS Access Introduction

Term 2 :

Ch 6: Interactive Webpage with Java Script

Ch 7 : New trends on World Wide Web

Ch 9 : VB.NET Delving Deep