

BAL BHARATI PUBLIC SCHOOL, DWARKA

SYLLABUS 2010-11

CLASS-XI

ENGLISH - XI

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
Book Project	:	Animal Farm by George Orwell
Extra Reading (short stories)	:	The Last Leaf (O' Henry) Mrs. Packletide's Tiger (Saki) The Model Millionaire (Oscar Wilde)
Resource/ Reference books	:	BBC, Oxford, Together With...

SUGGESTED READINGS

Oxford Advanced Learner's Dictionary

English Pronunciation Dictionary by Daniel Jones et al

Penguin's/ Roget's Thesaurus

Longman Advanced Grammar

Collins Co-build Grammar

Eats Shoots and Leaves by Lynne Truss (punctuation)

Accommodating Broccoli in the Cemetery by Vivian Cook (spellings)

Sniglets by Rich Hall

Books by the following authors: Ayn Rand, P.G. Wodehouse, Jeffrey Archer, R.K. Narayan, Ismat Chughtai, Mark Twain, APJ Abdul Kalam, Salman Rushdie, Vikram Seth, Jane Austen, Charlotte Bronte, Emily Bronte, George Elliot, Gerald Durrell, Amitav Ghosh, G.B. Shaw

Short stories by O' Henry, Saki, Guy de Maupassant, Anton Chekhov, Oscar Wilde

Other titles: To Kill a Mockingbird, Uncle Tom’s Cabin, One Flew Over the Cuckoo’s Nest, The Diary of a Young Girl, Father Brown, Three Men in a Boat

MONTH	NO. OF WORKING DAYS	COURSE CONTENT
July	21	<p>READING: Unseen passage/ poem WRITING: Article, Factual Description, Notice, Poster GRAMMAR: Modals LITERATURE: <i>HORNBILL:</i> Prose: The Portrait of A Lady <i>SNAPSHOTS:</i> The Summer of the Beautiful White Horse ACTIVITY: Grandparents and Grandchildren are Natural Allies (Discussion)</p>
August	20	<p>READING: Unseen passage (Note Making) WRITING: Classified Advertisement, Letter for placing an order, Job Application GRAMMAR: Modals LITERATURE: <i>HORNBILL:</i> Prose: The Adventure Poetry: The Laburnum Top ACTIVITY: Nature inspires poetry (explore another piece of poetry on the same theme) BOOK PROJECT: Animal Farm</p>
September	22	<p>READING: Unseen passage/ poem WRITING: Letter to the Editor GRAMMAR: Determiners LITERATURE: <i>HORNBILL:</i> Prose: We’re Not Afraid to Die... Poetry: A Photograph <i>SNAPSHOTS:</i> The Address ACTIVITY: The Holocaust (Film Review: Life is Beautiful, The Pianist, The Diary of a Young Girl- Anne Frank)</p>
October	13	<p>READING: Unseen passage/ poem WRITING: Speech (assembly)/ debate GRAMMAR: Determiners LITERATURE: <i>HORNBILL:</i> Prose: Landscape of the Soul, The Ailing Planet <i>SNAPSHOTS:</i> Albert Einstein at School ACTIVITY: Our environment (Film Review: ‘Walle’)</p>
November	20	<p>READING: Unseen passage/ poem WRITING: Report- magazine, newspaper GRAMMAR: Tenses</p>

		LITERATURE: <i>HORNBILL:</i> Prose: Discovering Tut... Poetry: Childhood <i>SNAPSHOTS:</i> Mother's Day ACTIVITY: Citation to their mothers			
December	21	READING: Unseen passage (Note Making) WRITING: Letter of complaint GRAMMAR: Tenses LITERATURE: <i>HORNBILL:</i> Poetry: The Voice of the Rain ACTIVITY: Rain Water Harvesting (short film by Nandita Das) READING PROJECT: 3 short stories			
January	16	READING: Unseen passage/ poem WRITING: Letter seeking information/ making an enquiry GRAMMAR: Common Errors LITERATURE: <i>HORNBILL:</i> Prose: Silk Road Poetry: Father to Son <i>SNAPSHOTS:</i> The Tale of Melon City ACTIVITY: Exploration: Travel brochure on Delhi			
February	20	REVISION			
SYLLABUS	I FORMATIVE ASSESSMENT	TOPIC		TOOL	MARKS ALLOCATED
		The Laburnum Top Photograph Portrait of a lady We are not afraid to die...		CLASS TEST	15
		Book Project given as Holiday Homework		PROJECT	5
		Speaking skills		ACTIVITY	5
	I SUMMATIVE ASSESSMENT	All topics covered until the month of July Conversation Skills (listening & speaking)			
II FORMATIVE ASSESSMENT	The Tale of Melon City, Father to Son, Letter, Tenses, Unseen Passage				
II SUMMATIVE ASSESSMENT	Whole syllabus as specified above Conversation Skills (listening & speaking)				
NOTE	Book Project	I Term: Animal Farm II Term: 3 Short Stories			

SUGGESTIONS TO PARENTS:

1. Encourage your child to read magazines and books in English
2. Engage your child in some writing task regularly (For example, writing emails/ letters/ creative writing)
3. Keep regular contact with the teacher to monitor your child's progress

PHYSICS

LEARNING OBJECTIVES

1. Strengthen the concepts developed at the secondary stage to provide firm foundation for further learning in the subject.
2. Expose the learners to different processes used in Physics-related industrial and technological applications.
3. Develop process-skills and experimental, observational, manipulative, decision-making and investigatory skills in the learners.
4. Promote problem solving abilities and creative thinking in learners.

SUGGESTED READINGS

NCERT BOOK Part – I & II

RECOMMENDED BOOKS

FUNDAMENTALS OF PHYSICS: RASNIK & HALLIDAY

MONTH	NO. OF WORKING DAYS	COURSE CONTENT
July	21	Ch 1: Physical World Ch 2: Units and Measurement Ch 3: Motion in a straight Line Ch 4: Motion in a plane PRACTICALS: <i>Section A Experiments</i> 1. To measure diameter of a small spherical/cylindrical body using Vernier Callipers. 2. To measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 3. To measure diameter of a given wire using screw gauge. 4. To measure thickness of a given sheet using screw gauge. 5. To find the weight of a given body using parallelogram law of vectors. 6. Using a simple pendulum, plot L-T and L-T ² graphs. Hence find the effective length of second's pendulum using appropriate graph.

		<p>7. To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface</p> <p>8. To determine radius of curvature of a given spherical surface by a spherometer.</p>
August	20	<p>Ch 4: Motion in a plane Ch 5: Laws of Motion Ch 6: Work, Energy and Power PRACTICALS: <i>Section A (contd.)</i></p>
September	22	<p>Ch 7: System of Particles and Rotational Motion Ch 8: Gravitation</p> <p>PRACTICALS: <i>Section A (contd.)</i></p>
October	13	<p>Ch 9: Mechanical Properties of Solids Ch 10: Mechanical Properties of Fluids PRACTICALS: <i>Section B Experiments</i></p> <p>9 (i) To study the relation between frequency and length of a given wire under constant tension using sonometer. (ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.</p> <p>10. To find the speed of sound in air at room temperature using a resonance tube by two resonance</p> <p>11. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.</p> <p>12. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.</p> <p>13. To determine Young's modulus of elasticity of the material of a given wire.</p> <p>14. To find the force constant of a helical spring by plotting a graph between load and extension.</p> <p>15. To determine the surface tension of water by capillary rise method.</p>
November	20	<p>Ch 11: Thermal Properties of Matter Ch 12: Thermodynamics PRACTICALS: <i>Section B (contd.)</i></p>
December	21	<p>Ch 13: Kinetic Theory Ch 14: Oscillations Ch 15: Waves PRACTICALS: <i>Section B (contd.)</i></p>

January	16	Ch 15: Waves(contd.) Revision PRACTICALS: <i>Section B (contd.)</i>		
February	20	Revision		
SYLLABUS	I FORMATIVE ASSESSMENT I SUMMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		Ch 7	CLASS TEST	15
		Ch 1	PROJECT	5
		CBSE Activities	ACTIVITY	5
	II FORMATIVE ASSESSMENT	All topics covered in the months of July - August		
	II SUMMATIVE ASSESSMENT	All topics covered in the months of September and October		
I FORMATIVE ASSESSMENT	Whole syllabus as per C.B.S.E.			

SUGGESTIONS TO PARENTS

1. To keep in regular touch with the child and the subject teacher to keep a close eye on the child's progress.
2. To encourage the child for regular revision and written practice.

CHEMISTRY

LEARNING OBJECTIVES

The broad objectives of teaching Chemistry at Senior Secondary Stage are to help the learners:

1. To promote understanding of basic facts and concepts in Chemistry while retaining the excitement of chemistry.
2. To make students capable of studying chemistry in academic and professional courses (such as medicine, engineering, technology) tertiary level.
3. To expose the students to various emerging new areas of chemistry and apprise them with their relevance in their future studies and their application in various spheres of chemical sciences and technology.
4. To equip students to face various changes related to health, nutrition, environment, population, weather, industries and agriculture.
5. To develop problem solving skills in students.
6. To expose the students to different processes used in industries and their technological applications.

TEXT BOOKS:

NCERT BOOK Part – I & II

RECOMMENDED BOOKS

Morrison & Boyd

Fundamental Chemistry II – Pradeep Publication

J.D. Lee

MONTH	NO. OF WORKING DAYS	COURSE CONTENT
July	21	Ch 1: Some basic concepts of chemistry Ch 2: Structure of atom. PRACTICALS: <ol style="list-style-type: none">1. Crystallization of impure sample of copper sulphate.2. Comparing the pH of strong and weak acids of the same concentration.3. Study of pH change by common ion effect in case of weak acids and bases.
August	20	Ch 3: Classification of elements and periodicity in properties. Ch 4: Chemical bonding and molecular structure. Ch 5: States of matter (till derivation of ideal gas equation) PRACTICALS: <ol style="list-style-type: none">1. Determination of anions of dil. and conc. sulphuric acid group.
September	22	Ch 5: States of matter (contd.) Ch 6: Thermodynamics. PRACTICALS: <ol style="list-style-type: none">1. Determination of cations of groups zero, one and two in a given salt.
October	13	Ch 7: Equilibrium Ch 8: Redox Reactions Ch 12: Organic chemistry (IUPAC nomenclature). PRACTICALS: <ol style="list-style-type: none">1. Determination of cations of groups 3 and 4.
November	20	Ch 12: Organic chemistry (contd.) PRACTICALS: <ol style="list-style-type: none">1. Determination of cations of groups 5 and 6.

December	21	Ch. 10: s-Block elements. Ch 13: Hydrocarbons. PRACTICALS: 1. Volumetric analysis. Investigatory Project		
January	16	Ch 15: Environmental chemistry. Ch 11: Some p block elements Ch 9:Hydrogen PRACTICALS: Volumetric analysis		
February	20	REVISION		
SYLLABUS	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS
		Ch 12 (Organic Chemistry)	CLASS TEST	15
		Environmental Chemistry	PROJECT	5
		Model making(3D) of Solid State and Chemical Bonding	ACTIVITY	5
	I SUMMATIVE ASSESSMENT	All topics covered in the months of July – August		
	II FORMATIVE ASSESSMENT	All topics covered in the Months of September and October		
	II SUMMATIVE ASSESSMENT	Whole syllabus as per C.B.S.E.		

SUGGESTIONS TO PARENTS

1. To keep in regular touch with the child and the subject teacher to keep a close eye on the child's progress.
2. To encourage the child for regular revision and written practice.

MATHEMATICS

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 foundation for further learning in the subject.
3. To enable students enhance their mental calculations.
4. To promote problem solving abilities and creative thinking in learners.

TEXT BOOK

MATHEMATICS- NCERT

RECOMMENDED BOOKS:

Self tutor

Together with mathematics

R. D. SHARMA

TERM/MO NTH	NO. OF WORKING DAYS	COURSE CONTENT
July	21	Chapter 3: Trigonometric Functions Chapter 1: Sets Chapter 4: Principle of Mathematical Induction
August	20	Chapter 5: Complex numbers and Quadratic Equations Chapter 6: Linear Inequalities Chapter 7: Permutations and Combinations
September	22	Chapter 8: Binomial Theorem Chapter 9: Sequences and Series
October	13	Chapter 9: Sequences and Series (contd.) Chapter 10: Straight Lines
November	20	Chapter 11: Conic sections Chapter 2: Relations and Functions
December	21	Chapter 12: Introduction to Three Dimensional Geometry Chapter 13: Limits and Derivatives Chapter 15: Statistics
January	16	Chapter 14: Mathematical Reasoning Chapter 16: Probability
February	20	Revision

SYLLABUS	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		Sequense and Series	CLASS TEST	15
		Trigonometric functions	ASSIGNMENT	5
		Internal Assessment	ACTIVITIES CONDUCTED IN CLASS	5
SYLLABUS	I SUMMATIVE ASSESSMENT	All topics covered in the months of April-July		
	II FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS
		Ch 2 : Relations and Functions Ch 11: Conic Sections	CLASS TEST	15
		Power Point Presentations	PROJECT	5
		Internal Assessment	ACTIVITY	5
II SUMMATIVE ASSESSMENT	Whole syllabus as per C.B.S.E.			

SUGGESTIONS TO PARENTS:

- 1) For perfection in the subject, one needs to be regular
- 2) Practice is the key to success. The more they practice; the better will be their command in the subject.
- 3) Encourage children to see math in everyday life like paying of mobile bills is a good example of ceiling function and so on.

COMPUTER SCIENCE

LEARNING OBJECTIVES:

1. To enable the students learn the computer fundamentals and software concepts.
2. To enable the students learn the various methods used for creating programs.
3. To learn the way of creating, typing and executing programs.
4. To learn and understand the meaning of the various parts of a computer program.
5. To develop the logic building ability.
6. To appreciate the contribution of computer technology in day-to-day life.

TEXT BOOK:

1. Computer Science - A Text Book for Class XI- by Sumita Arora

MONTH	NO. OF WORKING DAYS	COURSE CONTENT		
July	21	Ch-5 OOP Concepts Ch-6 Getting starting with C++ Ch-7 Data Handling Ch-8 Operators & expressions in C++ Ch-9 Flow of Control – if Statement, Switch Statement, for Loop		
August	20	Ch-1 Computer Overview Ch-9 Flow of Control – Loops and Jump Statements		
September	22	Ch-3 Data Representation Ch-11 User Defined Functions		
October	13	Ch-12 Arrays(1D Arrays)		
November	20	Ch-12 Arrays(1D Arrays) Ch-13 Structures		
December	21	Ch-13 Structures(contd.) Ch-10 Standard Library Functions		
January	16	Ch-12 Arrays(2D Arrays) Ch-2 Working with Operating System Ch-14 Programming Methodology		
February	20	Revision		
SYLLABUS	I Formative Assessment	TOPIC	TOOL	MARKS ALLOCATED
		Ch-9 Flow of Control Ch-11 User Defined Functions (UDF)	CLASS TEST	15
		Ch-11 UDF (Practical File Programs)	PROJECT	5
		Ch-11 UDF	ACTIVITY	5

	I Summative Assessment	Chapters: 1, 5, 6, 7, 8, 9
	II Formative Assessment	Chapters: 3, 11, 12 (1D Arrays)
	II Summative Assessment	Chapter- 3, 5, 6, 7, 8, 9, 10, 11,12,13, 14

Suggestions to Parents:

1. Only printouts are permitted for the Practical File. No photocopies will be allowed.
2. Encourage your ward to read the text book thoroughly.

BUSINESS STUDIES

LEARNING OBJECTIVES:

1. To develop in students an understanding of the processes of business and its environment;
2. To acquaint students with the dynamic nature and inter-dependent aspects of business;
3. To develop an interest in the theory and practice of business, trade and industry;
4. To create an understanding of the various forms of business enterprises & their functioning in the local & global scenario.

TEXT BOOKS:

NCERT Business studies for class XI.

RECOMMENDED BOOKS:

Book of Business by Poonam Gandhi

Month	No. of Working Days	Course Content
July	21	Ch. 1 Nature & Purpose of business Ch. 2 Forms of Business organizations.
August	20	Ch.3 Private, Public & Global organizations. Ch.4 Business services.
September	22	Ch. 5 Emerging modes of business Ch. 6 Social responsibilities of business & business ethics. Ch. 7: Formation of a company.
October	13	Ch. 7: Formation of a company.(contd.) Ch. 8 Sources of business finance.
November	20	Ch. 8 Sources of business finance(contd.) Ch. 9 Small Business.
December	21	Ch.10 : Internal trade

January	16	Ch.11 &12 International Business (Part1&2)		
February	20	PROJECT – VIVA &REVISION.		
SYLLABUS	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		Ch-Formation of a company Ch-Sources of Business Finance	CLASS TEST	15
		Project Work allotted according to roll numbers	PROJECT	5
		Internal Assessment (maintenance of class registers and Class test)	ACTIVITY	5
	I SUMMATIVE ASSESSMENT	Topics covered till August		
	II FORMATIVE ASSESSMENT	Topics covered in the months of September & October		
	II SUMMATIVE ASSESSMENT	Whole syllabus as per CBSE		

SUGGESTIONS TO PARENTS:

1. Encourage your ward for the thorough reading of the NCERT Book.
1. Advise the child to emphasise on content, quality as well as presentations of the answers.
2. Ensure to remain in regular touch with the concerned teacher so as to regulate the child's performance.

ACCOUNTANCY

LEARNING OBJECTIVES:

1. To acquaint the learners about the significance of recording financial transactions.
2. To make the learners proficient in the application of accounting rules so as to produce authentic financial records.
3. To help the learners in comprehending the changing role of accounting in the present scenario of increasing societal demand.

TEXT BOOKS:

1. Double entry book keeping-Financial Accounting By T.S.Grewal

RECOMMENDED BOOKS:

1. Accountancy for Class XI: D.K. Goyal
2. NCERT [Financial Accounting] Part I & II
- 3.

Month	No. of working days	Course content		
July	21	UNITS I, II, III (chapters 1-6)		
August	20	UNIT III (contd.) & UNIT IV (chapters 7-12)		
September	22	UNIT V Ch. 13: Depreciation Ch.14: Provisions &Reserves		
October	13	UNIT VI Ch.15: Bills of exchange		
November	20	UNIT VII Ch 16: Rectification of Errors UNIT VIII Ch. 17: Final Accounts		
December	21	UNIT VIII (contd.) Ch.18: Final Accounts (with adjustments) Project Work		
January	16	UNIT IX Ch 19: Financial Statements of Non-Profit Organisations UNIT X Ch 20: Accounts from Incomplete Records UNIT XI Ch 21 - 23: Computers in Accounting		
February	20	REVISION FOR II SUMMATIVE TERM		
SYLLABUS:	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		*Journal, Ledger & Trial Balance * Cash book	CLASS TEST	15
		Comprehensive project	PROJECT	5
		Case study	ACTIVITY	5
	I SUMMATIVE ASSESSMENT	Topics covered till August		
II FORMATIVE	Topics covered in months of September and October.			

ASSESSMENT	
II SUMMATIVE ASSESSMENT	Whole syllabus as per CBSE

SUGGESTIONS TO PARENTS:

1. Motivate your ward to regularly practice the numericals.
1. Encourage the child to work as per the time limit and in the defined formats.
2. Be in touch with the concerned teachers to regularly access the performance.

ECONOMICS

LEARNING OBJECTIVES

1. Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day-to-day life as citizens, workers and consumers.
2. Realisation of learners' role in nation building and sensitivity to the economic issues that the nation is facing today.
3. Equipping with basic tools of economics and statistics to analyse economic issues. This is pertinent for even those who may not pursue this course beyond senior secondary stage.
4. Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically with reasoning.

TEXT BOOKS:

1. NCERT –Indian Economic Development, Statistics for Economics

FOR REFERENCE:

1. TR Jain and VK Ohri- Indian Economic Development Statistics for Economics
2. NM Shah- Statistics for Economics

Term/month	No. of Working Days	Course content
July	21	UNIT 1: Introduction UNIT 2: Collection, Organisation and Presentation of Data UNIT 5: Development Policies and Experience (1947-90)
August	20	UNIT 6: Economic Reforms since 1991 UNIT 3: Statistical Tools & Interpretation
September	22	UNIT 7: Current challenges facing Indian Economy UNIT 3: Statistical Tools and Interpretation
October	13	UNIT 7: Current challenges facing Indian Economy
November	20	UNIT 3: Statistical Tools and Interpretation

December	21	UNIT 7: Current challenges facing Indian Economy UNIT 3: Statistical Tools and Interpretation		
January	16	UNIT 8: Development Experience of India UNIT 4: Developing Projects in Economics UNIT 3: Statistical Tools and Interpretation		
February	20	Revision		
SYLLABUS:	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		Measures of dcentral tendency	CLASS TEST	15
		India of 70's vs India today (Infrastructure)	PROJECT	5
		Group discussion- outcome of reforms of the 90's	ACTIVITY	5
	I SUMMATIVE ASSESSMENT	All Units covered in the months of July – August		
II FORMATIVE ASSESSMENT	Poverty, Rural Development, Measures of Dispersion			
II SUMMATIVE ASSESSMENT	Entire Syllabus			

SUGGESTIONS TO PARENTS:

1. Motivate your ward to regularly be in touch with the subject.
1. Encourage your ward for the thorough reading of the book.
2. Be in touch with the concerned teachers to regularly assess the performance.
3. Devote ample time to practice numericals so as to gain proficiency in statistical tools taught.

BIOLOGY

LEARNING OBJECTIVES:

The prescribed syllabus is expected to:

1. Promote understanding of basic principles of biology
2. Learning of emerging knowledge and its relevance to individual and society
3. Encourage rational/specific attitude to issues related to population,
4. environment and development
5. Enhance awareness about environment issues and problems and the
6. appropriate solutions
7. Create awareness amongst the learners about variations amongst the living and developing respect for the diversities and to appreciate that the most complex biological phenomenon are also built on

essentially simple processes. It is expected that the students would get an exposure to various branches of Biology in the syllabus in a more contextual and friendly manner as the study its various FORMATIVE ASSESSMENT.

TEXT BOOKS:

Biology Vol.1: Textbook, Published by NCERT, New Delhi

PROJECT WORK:

Students will be expected to undertake independently project work on any one of the following topics

UNIT II: Structural Organisation in Animals and Plants

- a. Tissues in animals and plants.
- b. Morphology, anatomy and functions of different parts of flowering plants:
Root, stem, leaf, inflorescence, flower, fruit and seed
- c. Morphology, anatomy and functions of different systems of an annelid (Earthworm), and insect (cockroach) and an amphibian (frog).

Term/Month	No. of working days	Course content
July	21	UNIT 5: HUMAN PHYSIOLOGY
		Chapter 16: Digestion and absorption Chapter 17: Breathing and respiration Chapter 18: Body fluids and circulation Chapter 19: Excretory products and elimination Practical Work: 1. To test the activity of salivary amylase on starch 2. To test the activity of salivary amylase on starch at different temperatures
August	20	Chapter 20 Locomotion and movement. Chapter 21 Control and coordination Chapter 22 Nervous System
		Practical work: 3. Study of distribution of stomata in the upper and lower surface of leaves. 4. Comparative study of the rates of transpiration in the upper and lower surface of leaves. 5. Test for the presence of sugar, starch, proteins and fats. To detect them in suitable plant and animal materials.

<p>September</p>	<p>22</p>	<p>UNIT IV PLANT PHYSIOLOGY</p> <p>Chapter 11: Transport in Plants Chapter 12: Mineral nutrition in Plants Chapter 13: Photosynthesis in Plants</p> <p>Practical work: Study of plasmolysis in epidermal peels (e.g. Rhoeco Leaves)</p>
<p>October</p>	<p>9</p>	<p>UNIT IV Plant Physiology</p> <p>Chapter 14 Respiration in plants Chapter 15 Growth and Development of Plants</p> <p>Practical Work: To test the presence of urea in urine. To detect the presence of sugar in urine/blood sample. To detect the presence of albumin in urine.</p>
<p>November</p>	<p>18</p>	<p>UNIT III CELL</p> <p>Chapter 8 Cell - The UNIT of Life Chapter 10 Cell division Chapter 9 Biomolecules</p> <p>Practical Work: Study of osmosis by potato osmometer Separate plant pigments through paper chromatography</p>
<p>December</p>	<p>21</p>	<p>UNIT II Structural Organisation in Plants And Animals</p> <p>Morphology of Flowering Plants Anatomy of Flowering Plants Structural Organisation of Animals</p> <p>Practical Work 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</p>

<p style="text-align: center;">January</p>	<p style="text-align: center;">14</p>	<p>UNIT I Diversity in Living World</p> <p>Chapter 1 Diversity in living world Chapter 2 Classification Chapter 3 Plant kingdom</p> <p>Practical Work Study of the specimens and identification with reasons-Bacteria, oscillatoria, monocotyledon and one dicotyledon and one lichen.</p> <p>Study of specimens and identification with reasons-Amoeba, Hydra, Liverfluke, Ascaris, Leech, Earthworm, Prawn, Silkworm, Honeybee, Snail, Starfish, Rohu, Frog, Lizard, Pigeon and rabbit.</p>												
<p style="text-align: center;">SYLLABUS</p>	<p style="text-align: center;">I FORMATIVE ASSESSMENT</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">TOPIC</th> <th style="text-align: center;">TOOL</th> <th style="text-align: center;">MARKS ALLOCATED</th> </tr> </thead> <tbody> <tr> <td>Transport in plants Mineral nutrition in plants</td> <td style="text-align: center;">CLASS TEST</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Project “Future of green fuel in India”.</td> <td style="text-align: center;">PROJECT</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Practical activity</td> <td style="text-align: center;">ACTIVITY</td> <td style="text-align: center;">5</td> </tr> </tbody> </table>	TOPIC	TOOL	MARKS ALLOCATED	Transport in plants Mineral nutrition in plants	CLASS TEST	15	Project “Future of green fuel in India”.	PROJECT	5	Practical activity	ACTIVITY	5
		TOPIC	TOOL	MARKS ALLOCATED										
		Transport in plants Mineral nutrition in plants	CLASS TEST	15										
		Project “Future of green fuel in India”.	PROJECT	5										
	Practical activity	ACTIVITY	5											
<p style="text-align: center;">I SUMMATIVE ASSESSMENT</p>	<p>All topics covered in the months of July-August</p>													
<p style="text-align: center;">II FORMATIVE ASSESSMENT</p>	<p>Topics covered in September, October, November</p>													
<p style="text-align: center;">II SUMMATIVE ASSESSMENT</p>	<p>Entire Syllabus as per CBSE will be evaluated</p>													

PSYCHOLOGY

LEARNING OBJECTIVES

1. To develop an appreciation about human behavior and human mind in the context of learners’ immediate society and environment.
2. To develop in learners an appreciation of multi-disciplinary nature of psychological knowledge and its application in various aspects of life.
3. To enable learners to become perceptive, socially aware and self-reflective
4. To facilitate students’ quest for personal growth and effectiveness, and to enable them to become responsive and responsible citizens.

TEXT BOOK

Psychology, Class XI, Published by NCERT

RECOMMENDED BOOKS

Introduction to Psychology by Morgan and King

MONTH	NO. OF WORKING DAYS	COURSE CONTENT
JULY	21	UNIT I: introduction to Psychology Activity: Ranking the areas of Psychology from most interesting to least according to students. UNIT II: Methods of Psychology Activity: few students will observe a class. Discuss the observation made with other students. Note the similarities and the differences in their observation.
AUGUST	20	UNIT II: Methods of Psychology(contd.) Activity: few research problems will be given to the students and they will be asked to identify the most appropriate method. UNIT VI: Learning Activity: Few situations will be given and students will have to recognize the form of learning taking place in these situations.
SEPTEMBER	22	UNIT III: The Bases of Human Behaviour Activity 1: Debate “ Psychology should leave the study of neurons, nervous systems to Biologists” Activity 2: Note differences in interaction between parents and children belonging to different cultures.
OCTOBER	13	UNIT IV: Human Development Activity 1: Tell the class about your present life situation and now imagine you are living a life of somebody else without the facilities available to you. Describe the differences that will come in your life. Activity 2: At each stage of life the child will be asked to observe and describe the behavior in context of his development stage. UNIT VII: Human Memory Activity: to demonstrate chunking effect. Make the students learn without chunking, then with chunking. Compare the result of the two trials.
NOVEMBER	20	UNIT V: Sensory and Perceptual Process. Activity: to demonstrate perceptual sets (closing the eye after seeing a series of numbers while writing replacing them with alphabets
DECEMBER	21	UNIT IX: Motivation and Emotion Activity: Think of an intense emotional experience you have gone through recently and explain the sequence of events. How can you deal with it? Share it with the class.
		UNIT IX: Motivation and Emotion(contd.) UNIT VIII: Language and Thought Activity 1: Take one problem of everyday life and solve it in steps for

JANUARY	16	problem solving. Activity 2: pick up an object and discuss about its usefulness in different areas except the thought and language development normal use.		
FEBRUARY	20	Revision		
SYLLABUS	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		Chap 1	CLASS TEST	15
		Chap 2	PROJECT	5
		Observation Method	ACTIVITY	5
	I SUMMATIVE ASSESSMENT	All topics covered in the months of July-August		
	II FORMATIVE ASSESSMENT	All topics covered in the months of September- November		
	II SUMMATIVE ASSESSMENT	Whole syllabus as per CBSE		

SUGGESTIONS TO PARENTS:

1. For perfection in the subject, one needs to be regular.
2. Encourage your ward to read books and articles related to Psychology in order to create a better understanding.

GEOGRAPHY

LEARNING OBJECTIVES:

- Familiarise themselves with the terms, key concepts and basic principles of geography;
- Search for, recognize and understand the processes and patterns of the spatial arrangement of the natural as well as human features and phenomena on the earth's surface;
- Understand and analyse the inter-relationship between physical and human environments and their impact;
- Apply geographical knowledge and methods of inquiry to new situations or problems at different levels- local, regional, national and global;
- Develop geographical skills, relating to collection, processing and analysis of data/information and preparation of report including maps and graphs and use of computers
- whereas possible; and
- Utilize geographical knowledge in understanding issues concerning the community such as environmental issues, socio-economic concerns, gender and become responsible and effective members of the community.

MONTH	NO. OF WORKING DAYS	COURSE CONTENT
July	21	Unit 1 Introduction Unit 2 The Earth Unit 3 Landforms Practical Work Fundamentals of Map 1. Maps, their types 2. Latitude, longitude, time
August	20	Unit 3 Landforms Unit 4 Climate Practical work Fundamental of Map 2. Map Projection
September	21	Unit 4 Climate Practical Work Topographic and weather map 4. Study of Topographic Maps
October	13	Unit 4 Climate Unit 5 Water Practical Work Topographic and weather map 5. Aerial photographs 6. Satellite Imageries
November	20	Unit 4 Climate Unit 5 water Practical work Topographic and weather map 7. Use of Weather Instrument 8. Use of Weather Charts
December	21	Unit 6 Life on the Earth Part B INDIA: Physical Environment Unit 8 Introduction -Structure & Relief -Drainage System Unit 9 Physiography
January	16	Unit 10 Climate, Vegetation, Soil Unit 11 Natural Hazard & Disasters
February	16	Revision

SYLLABUS	I FORMATIVE ASSESSMENT	TOPIC	TOOL	MARKS ALLOCATED
		Climate	Class Test	15
		Geographical Dictionary	Project	5
		Model Making	Activity	5
I SUMMATIVE ASSESSMENT	Topic covered in July and August will be evaluated			
II FORMATIVE ASSESSMENT	All topics covered in Months of September-November			
II SUMMATIVE ASSESSMENT	Entire Syllabus will be evaluated			