

BRAIN INTERNATIONAL SCHOOL

CLASS: XI

SUBJECT: ENGLISH CORE (302)

SYLLABUS 2018-19

Month	Reading Section	Book – Hornbill	Book – Snapshots	Writing Skills	Grammar (IGP - Editing, omission, gap filling, reordering sentences)
April –May	Unseen Passage	Ch 1: The Portrait of a Lady Ch 2: We're Not Afraid to Die P 1 : A Photograph (poem)	Ch 1: The Summer of a Beautiful White Horse	Notice, Letter to the Editor, Report	Reordering sentences
July	Periodic Test 1	Syllabus Covered in April and May			
July (after exams)	Unseen Passage	Ch 3: Discovering Tut	Ch 2: The Address Ch 5: Mother's Day	Posters, Advertisements	Tenses
August	Unseen Poem Note making and Summary Writing	P 2: The Laburnum Top (poem) Ch 4: Landscape of the Soul P 3: The Voice of the Rain (poem)	Ch 3: Ranga's Marriage	Article, Speech Note Making and Summary Writing	Determiners Change of Voice
September	ASL + REVISION Periodic Test II		Syllabus covered from April to August		
September (after exams)		Ch 5: The Ailing Planet			IGP exercises (all previous concepts taught)
October	Unseen Passage	Ch 6: The Browning Version	Ch 8: The Tale of Melon City (poem)		Modals
November	Unseen Poem	P 4: Childhood (poem) P 5 : Father to Son (poem)	Ch 4: Albert Einstein at School Ch 6: The Ghat of the Only World	Business / official letters (enquiry, order, complaint, cancellation and their replies)	Prepositions Clauses
December	Note making and summary writing	Ch 7: The Adventure Ch 8: Silk Road	Ch 7: Birth	Application for a job and Bio-data	Subject verb agreement Vocabulary
January	ASL + REVISION Periodic Test III		Syllabus covered from April to December		
February	Annual Examination		Syllabus covered from April to December		

BRAIN INTERNATIONAL SCHOOL

Class –XI

Subject – Mathematics

Syllabus:2018-19

Month	Book - Mathematics (NCERT)
APRIL / MAY	Ch-1 Sets Ch-3 Trigonometric Functions Ch-4 Principle of Mathematical Induction ch-2 relation and functions
JULY	Periodic Test-I (Ch-1,2,3,4) Ch-5 Complex Numbers Ch-6 Linear Inequalities Ch-7 Permutations and Combinations
AUGUST	Ch-8 Binomial Theorem Ch-9 Sequence And Series
SEPTEMBER	Revision Periodic Test-II (Ch-1 to 9) Ch-10 Straight Lines – (Including Family Of Lines, Shifting Of Origin)
OCTOBER	Ch-10 Straight Lines – (Including Family Of Lines, Shifting Of Origin) (contd.) Ch-11 Conic Sections
NOVEMBER	Ch-12 Introduction To Three Dimensional Geometry Ch-13 Limits And Derivatives
DECEMBER	Ch-15 Statistics Ch-16 Probability
JANUARY	Revision Periodic Test-III (All Chapters)
FEBRUARY	Revision and Final Examination

BRAIN INTERNATIONAL SCHOOL**Class -XI****Subject – PHYSICS****Syllabus: 2018-19**

Month	Book –NCERT	EXPERIMENTS
April	Ch:2 Units and Measurements Ch: 3 Motion in a Straight Line	Pr.1: Diameter of spherical ball by <i>Vernier Calipers</i> Pr.2: Internal diameter & depth then volume of beater by <i>Vernier Calipers</i> .
May	Ch:4 Motion in a plane Ch:5 Laws of Motion	Pr.3: Diameter of wire using <i>Screw Gauge</i> .
July	Periodic Test – I Ch: 6 Work Energy and Power	Ch: 2,3,4 and 5 Pr.4: To determine the radius of curvature of a spherical mirror using <i>Spherometer</i> . Pr.5: Parallelogram <i>Law of Vectors</i>
August	Ch: 7 System of Particles and Rotational Motion Ch: 8 Gravitation	Pr.6: <i>Simple Pendulum</i> .
September	Periodic Test-II Ch: 9 Mechanical Properties of Solids	Ch: 1 to 8 Pr.7: Friction on <i>Horizontal Plane</i> Pr.8: Friction on <i>Inclined Plane</i>
October	Ch: 10 Mechanical Properties of Fluids Ch: 11 Thermal Properties of Matter	Pr.9: Force constant of helical spring
November	Ch: 12 Thermodynamics Ch: 13 Kinetic Theory	Pr.10: To find <i>Coefficient of Viscosity</i> Pr.11: <i>Newton's Law of Cooling</i>
December	Ch: 14 Oscillations Ch: 15 Waves	Pr.12: Vibration of Air Column
January	Periodic Test-III Ch: 16 Ray Optics	Ch: 1 to 15
February	Annual Exam /Periodic Test-IV	All Chapters

BRAIN INTERNATIONAL SCHOOL**Class -XI****Subject – CHEMISTRY****Syllabus: 2018-19**

Month	Book –NCERT	EXPERIMENTS
April	Ch:1 Some basic concept of chemistry Ch: 2 Structure of atom	1. Acid base titration
May	Ch:3 Classification of elements and periodicity in properties Ch:4 Chemical bonding and molecular structure	2. Acid base Titration to find strength of given acid solution
July	Periodic Test-1 Ch:5 State of matter	Ch-1,2,3,4 3. Analysis of acid radicals in given salt
August	Ch:6 Chemical Thermodynamics Ch:7 Equilibrium	4. Analysis of acid radicals in given salt
September	Ch: 8 Redox Periodic Test -II	5. Analysis of basic radicals in given salt Ch-1,2,3,4,5,6,7,8
October	Ch: 9 Hydrogen Ch: 10 'S' block elements Ch: 11 'P' block elements	6. Analysis of acid and basic radicals in given salt (Salt Analysis)
November	Ch: 12 Organic chemistry –Some basic Principles and Technique	7. Analysis of acid and basic radicals in given salt (Salt Analysis)
December	Ch: 13 Hydrocarbons Ch: 14 Environmental chemistry	8. Finding melting point of Organic Compounds
January	Periodic Test -III Revision	All chapters
February	Revision and Final Exam	All chapters

BRAIN INTERNATIONAL SCHOOL**Class –XI****Subject – BIOLOGY****Syllabus: 2018-19**

Month	Book –NCERT	EXPERIMENTS
April	Ch:1 The Living World Ch:2 Biological Classification Ch:8 Cell: The Unit of Life Ch:10 Cell Cycle and Cell Division	1. To study parts of a compound microscope 2. Study of mitosis and meiosis in onion root tip cells and animal cells through permanent slides
May	Ch:3 Plant Kingdom Ch:4 Animal Kingdom	3. Study of available specimens/ slides/ models of plants and animals and their identification with reason
July	PERIODIC TEST-I	L-1,2,3,4,8&10
July	Ch:6 Anatomy of Flowering Plants Ch:7 Structural organisation in animals Ch:16 Digestion and Absorption Ch:17 Breathing and Exchange of Gases	4. Preparation and study of T.S of monocot and dicot roots and stems 5. Study of distribution of stomata in the upper and lower surface of leaves.
August	Ch:5 Morphology of Flowering Plants Ch:9 Biomolecules Ch:18 Body Fluids and Circulation	6. Test for the presence of sugar, starch , proteins and fats in suitable plants and animal sources 7. Study of available common flowering plants- their families including dissection and display of floral whorls 8. Study and identification of different types of inflorescence (cymose and racemose)
September	PERIODIC TEST-II	L-1,2,3,4,5,6,7,8,9,10,16, 17&18
September	Ch:11 Transport in Plants	9. Study of plasmolysis in epidermal peels 10. Study of osmosis by potato osmometer
October	Ch: 12 Mineral Nutrition Ch:19 Excretory Products and their Elimination Ch:20 Locomotion and Movement	11. Study of rate of transpiration in upper and lower surface of leaves

November	Ch: 13 Photosynthesis in Higher Plants Ch:14 Respiration in Plants	12. Separation of plant pigments through paper chromatography 13. Study the rate of respiration in flower buds/ leaf tissue and germinating seeds
December	Ch:15 Plant Growth and Development Ch:21 Neural Control and coordination	14. Study of imbibition in seeds/ raisins
January	PERIODIC TEST-III	L-2,5,6,7,8,9,10 ,11,12,13,14,15,16,17,19,20
January	Ch:22 Chemical Coordination and Integration	
February	Revision/Annual Exam	All Chapters

BRAIN INTERNATIONAL SCHOOL**Class –XI****Subject – Computer Science****Syllabus:2018-19**

Month	Book - Computer Science with C++	Practicals / Activities
April/May	Ch-1. Computer Overview Ch-3. Data Representation Ch-14. Programming Methodology Ch-6. Getting started with C++	<ul style="list-style-type: none">• Algorithms and flowcharts using different control structures• Basic C++ programs
July	Periodic Test-I Ch-7. Data Handling Ch-8. Operators and Expressions in C++	(Ch-1,3,6,14) <ul style="list-style-type: none">• C++ programs using various types of data, operators and expressions.
August	Ch-2. Software Concepts Ch- 10. Flow of Control	<ul style="list-style-type: none">• C++ programs using selection, Iteration and Jump statements.
September	Revision/Periodic Test-II Ch- 4. Microprocessor Basics and Memory Concepts	(Ch-1,2,3,6,7,8,10,14)
October	Ch-11. Functions	<ul style="list-style-type: none">• C++ programs using library and user defined functions.
November	Ch-12. Structured Data Type: Array Ch-13. Structures	<ul style="list-style-type: none">• C++ programs using 1-dimensional and 2-dimensional array.• C++ programs using structures
December	Ch-5. General OOP concepts	–
January	Periodic Test-III REVISION	All chapters
February	REVISION/ FINAL EXAM	All chapters