

**BRAIN INTERNATIONAL SCHOOL****CLASS: XII****SUBJECT: ENGLISH CORE (301)****SYLLABUS 2018-19**

<b>Month</b>	<b>Book - Flamingo</b>	<b>Book – Vistas</b>	<b>Writing Skills</b>	<b>Long Reading Text – Silas Marner</b>
April – May	Ch 1: The Last Lesson Ch 2: Lost Spring P 1: My Mother at Sixty Six (poem) Ch 3: Deep Water	Ch 2: The Tiger King Ch 5: Should Wizard Hit Mommy? Ch 4: The Enemy	Notice, Letter to the Editor Note making and summary writing	Chapters 1 – 7
<b>June</b>	<b>Periodic Test 1</b>	<b>Syllabus Covered So Far</b>		
July	P 2: An Elementary School Classroom in a Slum (poem) P3: Keeping Quiet (poem) Ch 4: The Rattrap	Ch 6: On the Face of It	Formal and informal - Invitations and Replies Advertisements Article, Speech	Chapters 8 – 15
August	Ch 5: Indigo P 4: A Thing of Beauty (poem) P 5: Aunt Jennifer's Tigers (poem)	Ch 8: Memories of Childhood	Posters Debate Report	Chapters 16 – 21
<b>September</b>	<b>ASL + REVISION</b> <b>Periodic Test II</b>	<b>Syllabus covered so far</b>		
September (after exams)			Business or official letters (enquiry, order, complaint, cancellation, writing to school / college authorities and their replies)	
October	Ch 8: Going Places	Ch 7: Evans Tries an O Level	Application for a job and bio-data	Epilogue, themes, symbols and motifs
<b>November</b>	<b>Revision</b>	<b>Revision</b>		
<b>December</b>	<b>Pre Board I</b>	<b>Whole Syllabus</b>		
<b>Jan – Feb</b>	<b>Pre Board II</b>	<b>Whole Syllabus</b>		

**Brain International School**

**Class –XII**

**Subject – Mathematics**

**Syllabus:2018-19**

<b>Month</b>	<b>Book- Mathematics (Ncert) Mathematics (R.S. Aggarwal)</b>
March	Ch-3 Matrices
April	Ch-3 Matrices(cont.) Ch-4 Determinants Ch-2 Inverse Trigonometry
May	Ch-5 Continuity And Differentiability Ch-6 Applications Of Derivatives
June	<b>Periodic Test-I (Ch-2,3,4,5,6)</b>
July	Ch-6 Applications Of Derivatives(Cont.) Ch-7 Indefinite Integrals Ch-7 Definite Integrals
August	Ch-8 Application Of Integrals Ch-9 Differential Equations Ch-12 Linear Programming
September	Ch-10 Vectors <b>Periodic Test-II</b>

	<b>(Ch- 2,3,4,5,6,7,8,9,10,12)</b>
October	Ch-11 Three- Dimensional Geometry Ch-13 Probability
November	Ch-1 Relation And Functions Revision
December	<b>Periodic Test-III/Pre-Board-I (All Chapters)</b>
January/February	<b>Periodic Test-IV/Pre-Board-II (All Chapters)</b>

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

Month	Book –NCERT	EXPERIMENTS
March	Ch:1 Electric Charges and Fields Ch:2 Electric Potential and Capacitance	1. Ohms law 2. To find resistance using meter bridge & hence find specific resistance
April	Ch:2 Electric Potential and Capacitance Ch:3 Current Electricity	3. To verify the series combination of resistance using meter bridge 4. To verify the parallel combination of resistance using meter bridge
May	Ch:4 Moving Charges and magnetism Ch:5 Magnetism and Matter	5. To compare emf's of 2 cell using potentiometer 6. To determine internal resistance of a primary cell using potentiometer
June	<b>Periodic Test-I</b>	Ch: 1,2,3,4 &5
July	Ch:6 EMI Ch: 7 AC	7. Resistance of galvanometer using half deflection method 8. To determine the frequency of ac using sonometer
August	Ch: 7 AC Ch: 8 EM Waves	9. To find the focal length of concave mirror 10. To find the focal length of convex lens by plotting graph between u & v
September	Periodic Test-II Ch: 9 Ray Optics	Ch: 1 to 8 11. $\mu_{\min}$ for prism by plotting a graph between i and $\mu$ . 12. To determine $\mu$ using travelling microscope
October	Ch: 9 Ray Optics Ch: 10 Wave Optics Ch: 11 Dual Nature of Radiation and Matter	13. To draw I V characteristic curve of pn, junction in FB 14. To draw I V characteristic curve of pn junction in RB
November	Ch: 12 Atom Ch: 13 Nuclei Ch: 14 Semiconductors Ch: 15 The communication System	15. To draw I V characteristic curve Zener diode
December	Revision Periodic Test-III/ Preboard I	All Chapters

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

<b>Month</b>	<b>Book –NCERT</b>	<b>EXPERIMENTS</b>
<b>March</b>	Ch:10 Haloalkanes and Haloarenes	
<b>April</b>	Ch:11 Alcohol, Phenol & Ether, Ch:12 Aldehydes, Ketones and Carboxylic Acids	<b>1.</b> Titration finding molarity of $\text{KMnO}_4$ with Mohr's salt
<b>May</b>	Ch:13 Amines Ch:14 Biomolecule	<b>2.</b> Titration with oxalic acid
<b>June</b>	<b>PERIODIC TEST-I</b>	<b>Ch-10,11,12,13,14</b>
<b>July</b>	Ch:15 Polymers Ch:16 Chemistry in Everyday life,	<b>3.</b> Crystal formation of Mohr's salt
<b>August</b>	Ch: 1 Solid state Ch: 2 Solutions	<b>4.</b> Chromatography
<b>September</b>	<b>PERIODIC TEST-II</b>  Ch: 3 Electrochemistry	<b>Ch-1,2,10 to 16</b>  <b>5.</b> Functional group
<b>October</b>	Ch: 4 Chemical Kinetics Ch: 5 Surface Chemistry Ch: 6 General Principles and process of isolation of Elements	<b>6.</b> Salt analysis, finding of anions.
<b>November</b>	Ch: 7 'P' block elements Ch: 8 'd' and 'f' block elements Ch: 9 coordination compounds	<b>7.</b> Salt analysis, finding of cations.
<b>December</b>	Revision & Pre Board –I	All Chapters
<b>January</b>	Pre Board -II	All Chapters
<b>February</b>	Revision	All Chapters
<b>March</b>	Board Exams	All Chapters

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

<b>Month</b>	<b>Book –NCERT</b>	<b>EXPERIMENTS</b>
March	Ch:1 Reproduction in Organisms Ch:3 Reproduction in Human Beings	1. To study Gametogenesis –T.S of Ovary, Testis, Blastula through permanent slides.
April	Ch:3 Reproduction in Human Beings(continue) Ch:4 Reproductive Health Ch:2 Sexual reproduction In Flowering Plants	2. To study pollen germination on a slide 3. To prepare temporary mount of onion root tip to study mitosis 4. To study adaptations in flowers for pollination by various agencies 5. To study meiosis in onion bud cell or grass hopper testis through permanent slides.
May	Ch:2 Sexual Reproduction In Flowering Plants(continue) Ch:5 Principles of Inheritance and Variations	6. Exercise on controlled pollination- emasculation, bagging and tagging 7. To study prepared pedigree charts of genetic traits like rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness
June	<b>PERIODIC TEST-I</b>	<b>L-1,2,3,4 &amp;5</b>
July	Ch:6 Molecular Basis of Inheritance Ch: 7 Evolution	8. To study Mendelian ratio 9. To study the effect of different temperatures and $p^H$ on the activity of salivary amylase on starch
August	Ch: 8 Human Health and Diseases Ch:9 Strategies for Enhancement in Food Production	10. To identify the common disease causing organisms like Ascaris, Entamoeba, Plasmodium , any fungus causing ring worm through specimens or slides
September	<b>PERIODIC TEST-II</b>	<b>(L-1 to 9)</b>

September	Ch: 15 Bio-diversity and its Conservation Ch: 16 Environmental Issues	<p><b>11.</b> To study morphological adaptations in two plants and animals found in xeric conditions</p> <p><b>12.</b> To study morphological adaptations in two plants and animals found in aquatic conditions</p> <p><b>13.</b> To study the presence of suspended particulate matter in air at two widely different sites.</p>
October	Ch: 10 Microbes In Human Welfare Ch: 11 Biotechnology Principles and Processes Ch: 12 Biotechnology and its Applications	<p><b>14.</b> To compare <math>p^H</math>, clarity, and presence of living organisms in stagnant water</p> <p><b>15.</b> Isolation of DNA from a plant tissue</p>
November	Ch: 13 Organisms and Population Ch: 14 Ecosystem	<p><b>16.</b> To collect and study different soil samples for texture, <math>p^H</math>, and water holding capacity</p> <p><b>17.</b> Study of plant population density and frequency by quadrat method</p>
December	Revision & Pre Board –I	All chapters
January	Pre Board –II	All chapters
February	Revision	All chapters
March	Board examination	All chapters

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

<b>Month</b>	<b>Book – Computer Science with C++</b>	<b>Practicals / Activities</b>
<b>Mar/April/May</b>	Ch-4. Objects and Classes Ch-3. Function Overloading Ch-2. Object Oriented Programming(Recap) Ch-1.Review of C++ (Recap) Ch-5. Constructors and Destructors Ch-6. Inheritance: Extending Classes	<ul style="list-style-type: none"><li>• C++ programs using Objects and Classes</li><li>• C++ programs using Polymorphism property.</li><li>• C++ programs using Constructors and Destructors</li></ul>
<b>June</b>	<b>Periodic Test-I</b>	<b>Ch-1,2,3,4,5,6</b>
<b>July</b>	Ch-11. Database Concepts Ch-12. Structured Query Language Ch-13. Boolean Algebra	–
<b>August</b>	Ch-14. Communication & Network Concepts Ch- 9. Arrays	<ul style="list-style-type: none"><li>• C++ programs using Arrays.</li></ul>
<b>September</b>	<b>Revision/Periodic Test-2</b>	<b>Ch-1,2,3,4,5,6,9,11,12,13,14</b>
<b>October</b>	Ch-7. Data File Handling in C++ Ch- 8. Pointers	<ul style="list-style-type: none"><li>• C++ programs using Text and Binary files es.</li></ul>
<b>November</b>	Ch-10. Linked Lists, Stacks, Queues	<ul style="list-style-type: none"><li>• C++ programs using Linked list and Arrays for Stacks and Queu</li></ul>
<b>December</b>	<b>Revision</b> <b>Pre-Board Exam-I/Periodic Test-3</b>	<ul style="list-style-type: none"><li>• Revision of all programs. <b>All Chapters</b></li></ul>
<b>January/February</b>	<b>Pre-Board Exam-II</b>	<b>All Chapters</b>





**BRAIN INTERNATIONAL SCHOOL****Class – XII****Subject – Physical Education****Syllabus: 2018-19**

<b>Month</b>	<b>Book</b>	<b>Practical / Activities</b>
March	Ch. I (Planning in Sports) Ch. II (Sports and Nutrition )	➤ General Rule
April	Ch. III (Yoga and Lifestyle) Ch. IV (Physical Education and Sports for CWSN)	<ul style="list-style-type: none"> <li>➤ Specifications of playfields and related sports equipments</li> <li>➤ Latest General rules Of the Game/Sports</li> <li>➤ AAPHERD Test (Pull-up (boys) and Flexed arm hang (girls), Bend Knee sit-up, standing broad jump, shuttle run, 50 Yard dash, 600 Yard run and walk)</li> <li>➤ Skills and Match</li> </ul>
May	Ch. V (Children and Sports) Ch. VI (Women and Sports) Revision (Ch. I to Ch. V)	<ul style="list-style-type: none"> <li>➤ Athletic Activity (Shot put and 800 M Run)</li> <li>➤ Practical file</li> <li>➤ Match and Fundamental Skills</li> </ul>
June	<b>Periodic Test-I</b>	Ch. I to Ch. V
July	Ch. VII (Test and Measurement in Sports) Ch. VIII (Physiology and Sports)	<ul style="list-style-type: none"> <li>➤ Important tournaments and venues</li> <li>➤ AAPHERD Youth Fitness Test (Pull-up (boys) and Flexed arm hang (girls), Bend Knee sit-up, standing broad jump, shuttle run, 50 Yard dash, 600 Yard run and walk)</li> <li>➤ Skills and Match</li> </ul>
August	Ch. IX (Sports Medicine) Ch. X (Kinesiology, Biomechanics and Sports)	<ul style="list-style-type: none"> <li>➤ Fundamental skills of the game/sports</li> <li>➤ Specific exercises of warm-up and conditioning</li> <li>➤ AAPHERD Youth Fitness Test</li> <li>➤ Related sports terminologies and Viva</li> </ul>
September	<b>Periodic Test-II</b> Ch. XI (Psychology and Sports)	<ul style="list-style-type: none"> <li>➤ Ch. I to Ch. IX</li> <li>➤ AAPHERD Test (Pull-up (boys) and Flexed arm hang (girls), Bend Knee sit-up, standing broad jump, shuttle run, 50 Yard dash, 600 Yard run and walk)</li> <li>➤ Skills, Match and Viva</li> </ul>
October	Ch. XI (Psychology and Sports) Cntd.	<ul style="list-style-type: none"> <li>➤ AAPHERD Test (Pull-up (boys) and Flexed arm hang (girls), Bend Knee sit-up, standing broad jump, shuttle run, 50 Yard dash, 600 Yard run and walk)</li> <li>➤ Fundamental Skills (game/sports)</li> </ul>
November	Ch. XII (Training in Sports)	<ul style="list-style-type: none"> <li>➤ Fundamental Skills (game/sports)</li> <li>➤ Practical file</li> <li>➤ Viva</li> </ul>
December	Revision (Ch. I to Ch. XII) <b>Pre board I</b>	<ul style="list-style-type: none"> <li>➤ Ch. I to Ch. XII</li> <li>➤ AAPHERD Test (Pull-up (boys) and Flexed arm hang (girls), Bend Knee sit-up, standing broad jump, shuttle run, 50 Yard dash,</li> </ul>

		600 Yard run and walk) ➤ Practical File, Viva and Fundamental Skills
January	<b>Pre board II</b>	
February	Revision	
March	Board Examination	