



# ST. FROEBEL SENIOR SECONDARY SCHOOL

A-3 BLOCK, PASCHIM VIHAR, NEW DELHI-110063

## SCIENCE

CLASS – XII

SYLLABUS: 2018-19

SUBJECT	MID TERM	FINAL TERM
English Books	<p><b>READING SKILLS</b></p> <ol style="list-style-type: none"> <li>Unfamiliar comprehension passages</li> <li>Notes – making (passages)</li> </ol> <p><b>ADVANCED WRITING SKILLS</b></p> <ol style="list-style-type: none"> <li>Short Compositions               <ol style="list-style-type: none"> <li>Classified and commercial ads.</li> <li>Notice Writing</li> <li>Posters</li> </ol> </li> <li>Long compositions               <ol style="list-style-type: none"> <li>Article Writing</li> <li>Speech/Debate</li> <li>Letter Writing</li> <li>Report Writing</li> </ol> </li> </ol> <p><b>LITERATURE (Text Book)</b></p> <ol style="list-style-type: none"> <li><b>Flamingo :</b> Prose Lesson No. 1, 2, 3, 4 Poems No. 1, 2, 3</li> <li><b>VISTAS</b> Lesson No. 2, 4, 5</li> <li><b>The Invisible Man</b> Lesson No. 1 to 28</li> </ol>	<p><b>READING SKILLS</b></p> <ol style="list-style-type: none"> <li>Unseen comprehension passages</li> <li>Notes – making passages</li> </ol> <p><b>ADVANCED WRITING SKILLS</b></p> <ol style="list-style-type: none"> <li> <ol style="list-style-type: none"> <li>Short Compositions (Revision of previous term)</li> <li>Invitations and replies</li> </ol> </li> <li>Long compositions               <ol style="list-style-type: none"> <li>Article Writing</li> <li>Letter Writing</li> <li>Speech/debate</li> <li>Report Writing</li> </ol> </li> </ol> <p><b>LITERATURE (Text Book)</b></p> <ol style="list-style-type: none"> <li><b>Flamingo :</b> Prose Lesson No. 5, 8 Poems No. 4, 6</li> <li><b>VISTAS</b> Lesson No. 6, 7, 8</li> <li><b>The Invisible Man</b> Lesson No. 1 to 28</li> </ol>
Maths	<p>Matrices &amp; Determinates Inverse Trigo, Derivative, Application of Derivatives, L.P.P., Indefinite Integral</p>	<p>Definite Integral , Application of Integral Vectors, 3D, Diff. Equation, Relations &amp; Functions, Probability</p>

<b>BIOLOGY</b>	Unit – 1:    Reproduction Chapter 1 – Reproduction in organisms Chapter 2 – Sexual Reproduction in flowering plants Chapter 3 – Human Reproduction Chapter 4 – Reproductive Health Unit – 2:    Genetics and Evolution Chapter 5 – Principles of Inheritance and Variation Chapter 6 – Molecular basis of inheritance Chapter 7 - Evolution	Unit – 3:    Biology and Human Welfare Chapter 8 – Human Health and Diseases Chapter 9 – Strategies for enhancement in Food Production Chapter 10 – Microbes in Human Welfare Unit – 4:     Biotechnology and its application Chapter 11 – Biotechnology : Principles and Processes Chapter 12 - Applications of Biotechnology Unit – 5:     Ecology and Environment Chapter 13 – Organisms and Population Chapter 14 - Ecosystem Chapter 15 – Biodiversity and its Conservation Chapter 16 – Environmental Issues
<b>Chemistry</b>	Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, General Principles, p-Block Elements, d- and f-Block Elements, Co-ordination Compounds	Haloalkanes and Haloarenes; Alcohols, Phenols and Ethers; Aldehydes, Ketones and Carboxylic acids; organic compounds containing N; Biomolecules; Polymers; chemistry in Everyday life.
<b>Physics</b>	1. Electric Charges and Fields 2. Electrostatic Potential and Capacitances 3. Current Electricity 4. Moving Charges and magnetism 5. Magnetism & Matter 6. Electromagnetic Induction 7. Alternating Current	8. Ray-optics and optical instruments 9. Electromagnetic Waves 10. Wave optics 11. Dual Nature of radiation and matter 12. Atoms 13. Nuclei 14. Semi conductors Material & devices 15. Communication systems
<b>Computer Sc.</b>	Unit-1: Ch-1 – Review of C++ Ch-2 – Concepts of Object Oriented Programming Ch-3 – Function Overloading Ch-4 – Classes in C++ Ch-5 – Inheritance	Unit-2: Ch-1 – Linear List Manipulation Ch-2 – Stacks and Queues in Lists Ch-3 – Data File Handling Ch-4 – Exception Handling & Generator Functions Unit-4: Ch-1 – Boolean Algebra

	Unit-3: Ch-1 – Database Concepts & SQL Ch-2 – Structured Query Language	Ch-2 – Boolean Functions & Reduce Forms Ch-3 – Application of Boolean Logic Unit-5: Ch-1 – Networking Concepts Part-I Ch-2 – Networking Concepts Part-II Ch-3 – Networking Protocols Ch-4 – Mobile TeleCommunications, Technologies, Network Security & Internet Services.
<b>Physical Education</b>	1) Adventure sports and leadership training 2) Sports & Nutrition 3) Planning in sports 4) Postures 5) Children and sports 6) Women & Sports	7) Test and Measurement in sports 8) Physiology and sports 9) Sports Medicine 10) Biomechanics and sports 11) Psychology and sports 12) Training in Sports