



Prep Science

- 1. The Scientific Methods**
- 2. Laboratory Tools**
- 3. Data Analysis**
- 4. Metric Units of Measurement**
- 5. Forces**
- 6. Forces and Motion**
- 7. Forms of Energy**
- 8. Energy Transformations**
- 9. Nature of Matter**
- 10. Measuring Matter**
- 11. Atoms and Molecules**
- 12. Compounds and Mixtures**
- 13. The cell**
- 14. Single-Celled Organisms**
- 15. Multicellular Organisms**
- 16. Plants**
- 17. Photosynthesis**
- 18. Animals**
- 19. Human Body**

Grade/Subject	Physics	Chemistry	Biology
Grade 9	<ol style="list-style-type: none"> 1. Introduction to Physics 2. Matter and Its Properties 3. Force and Motion 4. Energy 5. Heat and Temperature 6. Electrostatic 	<ol style="list-style-type: none"> 1. Science of Chemistry 2. Atom and Periodic Table 3. Interactions Between Chemical Species 4. States of Matter 5. Chemistry and Nature 	<ol style="list-style-type: none"> 1. Life Science Biology 2. The Cell 3. Classification of Organisms
Grade 10	<ol style="list-style-type: none"> 1. Pressure and Buoyancy 2. Electricity and Magnetism 3. Waves 4. Optics 	<ol style="list-style-type: none"> 1. Acids, Bases and Salts 2. Mixtures 3. Energy in Industry and Organisms 4. Chemistry Everywhere 	<ol style="list-style-type: none"> 1. Reproduction 2. General Principles of Heredity 3. Our world-<i>Ecosystem Ecology-Biomes</i>
Grade 11	<ol style="list-style-type: none"> 1. Force and Motion 2. Electricity and Magnetism 	<ol style="list-style-type: none"> 1. Modern Atomic Theory 2. Mass Relations in Chemistry - Stoichiometry 3. Gases 4. Solutions 5. Chemical Reactions and Energy - Thermochemistry 6. Reaction Rates and Chemical Equilibrium 	<ol style="list-style-type: none"> 1. Energy Transformations 2. Human Physiology 3. Behavior
Grade 12	<ol style="list-style-type: none"> 1. Uniform Circular Motion 2. Simple Harmonic Motion 3. Wave Mechanics 4. Introduction to Atomic Physics and Radioactivity 5. Modern Physics 6. The Application of Modern Physics on Technology 	<ol style="list-style-type: none"> 1. Chemistry and electricity (electrochemistry) 2. Introduction to Carbon Chemistry 3. Organic Chemistry 4. Chemistry in Life 	<ol style="list-style-type: none"> 1. Gene to Protein 2. Plant Biology 3. Community and Population Ecology 4. Evolution

Grade/ Subject	IB-HL Physics	IB-SL Chemistry	IB-SL and HL Biology	IB Environmental Science and Societies-ESS
Grade 11	<p><i>-SL Physics-</i></p> <ol style="list-style-type: none"> 1. Measurement and Uncertainties 2. Mechanics 3. Thermal Physics 4. Waves 5. Electricity and Magnetism <p><i>-HL Physics-</i></p> <ol style="list-style-type: none"> 1. Measurement and Uncertainties 2. Mechanics 3. Thermal Physics 4. Waves 5. Electricity and Magnetism 6. Electromagnetic Induction 	<ol style="list-style-type: none"> 1. Stoichiometric Relationships 2. Atomic Structure 3. Periodicity 4. Chemical Bonding and Structure 5. Energetics/Thermochemistry 6. Chemical Kinetics 7. Equilibrium 8. Acids and Bases 	<p><i>-SL Bio-</i></p> <ol style="list-style-type: none"> 1. Cell Biology 2. Molecular Biology 3. Genetics 4. Evolution and Biodiversity <p><i>-HL Bio-</i></p> <ol style="list-style-type: none"> 1. Cell biology 2. Molecular Biology 3. Genetics 4. Evolution and Biodiversity 5. Ecology 	<ol style="list-style-type: none"> 1. Foundations of environmental systems and societies 2. Ecosystems and ecology 3. Biodiversity and conservation 4. Water, food production systems and society
Grade 12	<p><i>-SL Physics-</i></p> <ol style="list-style-type: none"> 1. Circular Motion and Gravitation 2. Atomic, Nuclear and Particle Physics 3. Energy Production <p><i>-HL Physics-</i></p> <ol style="list-style-type: none"> 1. Circular Motion and Gravitation 2. Atomic, Nuclear and Particle Physics 3. Energy Production 4. Wave Phenomena 5. Fields 6. Quantum and Nuclear Physics 7. Option C: Imaging 	<ol style="list-style-type: none"> 1. Redox Processes 2. Organic Chemistry 3. Measurement and Data Processing 4. Options-C Energy 	<p><i>-SL Bio-</i></p> <ol style="list-style-type: none"> 1. Human physiology 2. Ecology and Conservation 3. Ecology <p><i>-HL Bio-</i></p> <ol style="list-style-type: none"> 1. Human and Animal Physiology 2. Metabolism and Cell Respiration 3. Plant Biology 4. Ecology and Conservation 	<ol style="list-style-type: none"> 1. Water, Food Production Systems and Society 2. Soil Systems and Society 3. Atmospheric Systems and Society 4. Climate Change and Energy Production