

# BERLIN BRITISH SCHOOL

## Course overview

### SCIENCE

#### Grade 6 - 8 Course Content

	<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>
<b>Grade 6</b>	<ul style="list-style-type: none"> <li>• Classification</li> <li>• Cells &amp; Organisation</li> <li>• Investigative Skills</li> <li>• Reproduction</li> <li>• Organisms in their Environment</li> </ul>	<ul style="list-style-type: none"> <li>• Investigative Skills</li> <li>• Acids &amp; Alkalis</li> <li>• The Particle Model</li> <li>• Solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Energy</li> <li>• Investigative Skills</li> <li>• Solar System</li> <li>• Forces</li> </ul>
<b>Grade 7</b>	<ul style="list-style-type: none"> <li>• Food &amp; Digestion</li> <li>• Respiration</li> <li>• Microbes &amp; Disease</li> <li>• Ecological Relationships</li> </ul>	<ul style="list-style-type: none"> <li>• Atoms &amp; Elements</li> <li>• Compounds &amp; Mixtures</li> <li>• Chemical Reactions</li> </ul>	<ul style="list-style-type: none"> <li>• Heating &amp; Cooling</li> <li>• Magnets &amp; Electromagnets</li> <li>• Light</li> <li>• Sound &amp; Hearing</li> </ul>
<b>Grade 8</b>	<ul style="list-style-type: none"> <li>• Inheritance &amp; Selection</li> <li>• Fitness &amp; Health</li> <li>• Plants &amp; Photosynthesis</li> <li>• Plants for food</li> </ul>	<ul style="list-style-type: none"> <li>• Reactions of Metals &amp; Metal Compounds</li> <li>• Patterns of Reactivity</li> <li>• Environmental Chemistry</li> <li>• Using Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>• Energy &amp; Electricity</li> <li>• Gravity &amp; Space</li> <li>• Speeding Up</li> <li>• Pressure &amp; Moments</li> </ul>

### IGCSE Course Content

	<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>
<b>Grade 9 +10</b>	<ul style="list-style-type: none"> <li>• Characteristics of Organisms Cells</li> <li>• Enzymes</li> <li>• Nutrition</li> <li>• Transportation</li> <li>• Respiration</li> <li>• Coordination and Response</li> <li>• Reproduction</li> <li>• Inheritance</li> <li>• Energy Flow in Ecosystems</li> <li>• Human Influences on Ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>• Particulate Nature of Matter</li> <li>• Experimental Techniques</li> <li>• Atoms, Elements, Compounds</li> <li>• Stoichiometry</li> <li>• Energy Changes in Chemical Reactions</li> <li>• Electricity and Chemistry</li> <li>• Chemical Reactions</li> <li>• Acids, Bases and Salts</li> <li>• The Periodic Table</li> <li>• Metals</li> <li>• Air and Water</li> <li>• Sulfur</li> <li>• Carbonates</li> <li>• Organic Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>• Motion</li> <li>• Matter and Forces</li> <li>• Energy, Work and Power</li> <li>• Simple Kinetic Model of Matter</li> <li>• Thermal properties of Matter</li> <li>• Transfer of Thermal Energy</li> <li>• Electricity and Electric Circuits</li> <li>• Magnetism &amp; Electromagnetism</li> <li>• Radioactivity</li> <li>• Waves</li> <li>• Electromagnetic spectrum</li> <li>• Light</li> <li>• Sound</li> </ul>

### IB Course Content

	<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>
<b>Grade 11 +12</b>	<ul style="list-style-type: none"> <li>• Cell Biology</li> <li>• Molecular Biology</li> <li>• Genetics</li> <li>• Ecology</li> <li>• Evolution &amp; Biodiversity</li> <li>• Human Physiology</li> <li>• Nucleic Acids</li> <li>• Metabolism, Respiration &amp; Photosynthesis</li> <li>• Plant Biology</li> <li>• Genetics and Evolution</li> <li>• Animal Physiology</li> </ul>	<ul style="list-style-type: none"> <li>• Stoichiometric Relationships</li> <li>• Atomic Structure</li> <li>• The Periodic Table &amp; Periodicity</li> <li>• Chemical Bonding &amp; Structure</li> <li>• Energetics/Thermochemistry</li> <li>• Chemical Kinetics</li> <li>• Equilibrium</li> <li>• Acids and Bases</li> <li>• Redox Processes</li> <li>• Organic Chemistry</li> <li>• Measurement, Data Processing &amp; Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Measurements &amp; Uncertainties</li> <li>• Mechanics</li> <li>• Thermal Physics</li> <li>• Waves</li> <li>• Electricity &amp; Magnetism</li> <li>• Circular Motion &amp; Gravitation</li> <li>• Atomic, Nuclear &amp; Particle Physics</li> <li>• Energy Production</li> <li>• Wave Phenomena</li> <li>• Fields</li> <li>• Electromagnetic Induction</li> <li>• Quantum &amp; Nuclear Physics</li> </ul>