

BERLIN BRITISH SCHOOL

Course overview

SCIENCE

Grade 6 - 8 Course Content

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

IGCSE Course Content

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

IB Course Content

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