

Year 7 to 11 Curriculum Map Subject: Science

Year	Biology	Chemistry	Physics
7	Cells Interdependence Pathogens and disease Reproduction	Particle model Acids and alkalis Metals and non-metals	Magnetism Electricity Forces Sound Space
8	Respiration Digestion Circulation Genetics and evolution Photosynthesis	Chemical Reactions Elements, compounds, mixtures Environmental chemistry	Machines Heat Energy transfer Light Pressure Speed, distance, time
9	Cells and control Key biological concepts	States of matter Methods of separating Atomic structure Bonding	Motion Forces and motion
10	Genetics Respiration Enzymes Diffusion Cells Photosynthesis	Atomic structure Bonding Carbon chemistry Earth materials Rates of reaction Exothermic and endothermic reactions	Energy resources Electromagnetic spectrum Communicating with waves Sound Electricity radioactivity
11	Molecules of life DNA transcription and translation Mitosis and meiosis Enzyme catalysed reactions Ecology Plant nutrition and transport systems Cloning Genetic engineering.	Ionic, covalent and metallic bonding Giant covalent structures. Chemical and physical properties of Groups I and VII Rates of reaction Quantitative chemistry Analytical chemistry	Nuclear fission and fusion Radioisotopes Half life Current electricity Ultrasound Free body diagrams Resultant forces Newton's Laws Momentum Application of Newton's Laws. Energy transformations.

NB: Topics are studied on a rotation in each year.