

Changes in AQA GCSE Additional Science

Comparison of draft AQA Science specifications with current AQA Science specifications: Biology Unit B2, Chemistry Unit C2 and Physics Unit P2

Unit	New content/new emphases	Content transferred in from a different unit	Content transferred out to a different unit	Content removed (and not referenced in any of the units)
B2	<ul style="list-style-type: none"> • Structure of algal, bacterial and yeast cells • Animal and plant tissues, organs and systems • Additional uses of glucose in plants and algae • Terms homozygous, heterozygous, phenotype and genotype • Polydactyly as an example of an inherited disorder • Details about fossil formation • Speciation 	<ul style="list-style-type: none"> • Physiological changes during exercise (from B3) • Glucose/glycogen conversion (from B3) • Anaerobic respiration (from B3) • Origins of life on Earth (from B1) • Fossils as evidence of evolution (from B1) • Extinction (from B1) 	<ul style="list-style-type: none"> • Osmosis (to B3) • Material and energy in biomass (to B1) • Efficiency of food production (to B3) • Decay processes and the carbon cycle (to B1) • Homeostasis (to B3) 	<ul style="list-style-type: none"> • Mineral deficiencies in plants • Huntingdon's disease as an example of an inherited disorder
C2	<ul style="list-style-type: none"> • Formulae of ionic compounds • Fullerenes • Thermosoftening and thermosetting polymers • Electroplating • Extraction of aluminium 	<ul style="list-style-type: none"> • Alloy properties in terms of their structure and bonding (from C1) • Reactants and reaction conditions affecting polymer properties (from C1) • Analysis of food additives (from C1) • Instrumental methods for chemical analysis (gas chromatography and mass spectrometry) (from C3) 	<ul style="list-style-type: none"> • Charges on protons, neutrons and electrons and atom neutrality (to C1) • Difference between elements in terms of proton numbers (to C1) • Electronic structure of atoms and relationship with the periodic table (to C1) • Effects of changing conditions on equilibria (to C3) • Haber process (to C3) 	<ul style="list-style-type: none"> • Atom economy
P2	<ul style="list-style-type: none"> • Elasticity and Hooke's law • Gravitational potential energy • Light emitting diodes • Circuit breakers • Nuclear equations • Star life cycles 	<ul style="list-style-type: none"> • Atomic structure and radioactivity (from P1) • Star formation (from P3) 	<ul style="list-style-type: none"> • Kinetic theory • Energy transfer by evaporation and condensation • Factors affecting the rate of energy transfer • U-values • Specific heat capacities • Transverse and longitudinal waves and their characteristics • Cosmic microwave background radiation 	