Subject: Combined Science

Year 10

Students follow the AQA GCSE Combined Science course and will gain a thorough grounding in each of the three sciences. Not only will students develop their knowledge and understanding of biology, chemistry and physics but they will enrich their experience by completing practical activities and learning through discovery. Students continue to build on the knowledge and understanding gained from Year 9, studying topics that build in complexity. Lessons include regular retrieval practice and past paper questions to build up recall and application skills. Students are taught by two teachers, each taking 4 lessons a fortnight.

Salford City Academy

The best in everyone™

OVERVIEW

Aut	BiologyB1 cellsTransport in Cells, OsmosisPractical, Stem cells, Mitosis, Cancer.B2 OrganisationDigestive system, Enzymes, Practical, Circulatory	Chemistry C1 Atomic Structure Atomic Structure, devel of atomic model, history periodic table, group 1 elements, group 7 elem C2 Bonding Ionic Bonding, Reactivity Metals, Covalent Bondi	y of Kinetic Energy, Gravitational Potential Energy, Elastic Energy, Renewable and non-renewable energy sources. <i>P2 Electricity</i> Circuits & symbols, series circuits, parallel circuits.	Assessment: End of topic test for each unit.
	System, Heart, Blood & Blood vessels, Respiratory System, Adaptations of the lungs.	Metallic Bonding, Simp molecules, allotropes o carbon.	le resistance of a wire	
Spr	Biology <i>B3 Infection</i> Pathogens, communicable Diseases, Viruses, Bacteria, Fungi and Protists, Immune Response, Vaccinations, Clinical Trials, Monoclonal antibodies, Plant disease	Chemistry C3 Quantitative Cher Relative Formula Mass, Reacting Masses, Balan equations C4 Chemical Change Reactivity of metals, Re of acids, Displacement, salts, Electrolysis	, ncing Particle model, density, Change of state and internal energy, Latent heat, Pressure	Assessment:Mid-Year exam paper based on topics covered so far.End of topic test for each unit.
Sum	BiologyB4 BioenergeticsPhotosynthesis,Adaptations of a leaf,Respiration, Effects ofexercise on the body.B7 EcologyCommunities, Adaptations,Cycling materials, Samplingpopulations, Biodiversity,Human impact onecosystems.	Chemistry C5 Energy Changes Exothermic and endoth reactions, energy change investigations, energy le diagrams, calculating be energy. C6 Rates of Reaction Rates, Effect of concern on rates of reactions, effect of surface area, effect of temperature, Catalysts.	ge the atom, Alpha, Beta and evel Gamma radiation, Half life, ond irradiation & contamination	Assessment: End of Year exam will be 3 x Paper 1 End of topic test for each unit.
Useful resources for supporting your child at home: Homework: • Knowledge retriever and workbook (provided) Weekly exam question and Educake quiz must be completed • BBC Bitesize revision pages BBC Bitesize revision pages				

BBC Bitesize revision pagesYoutube: Cognito Science lessons