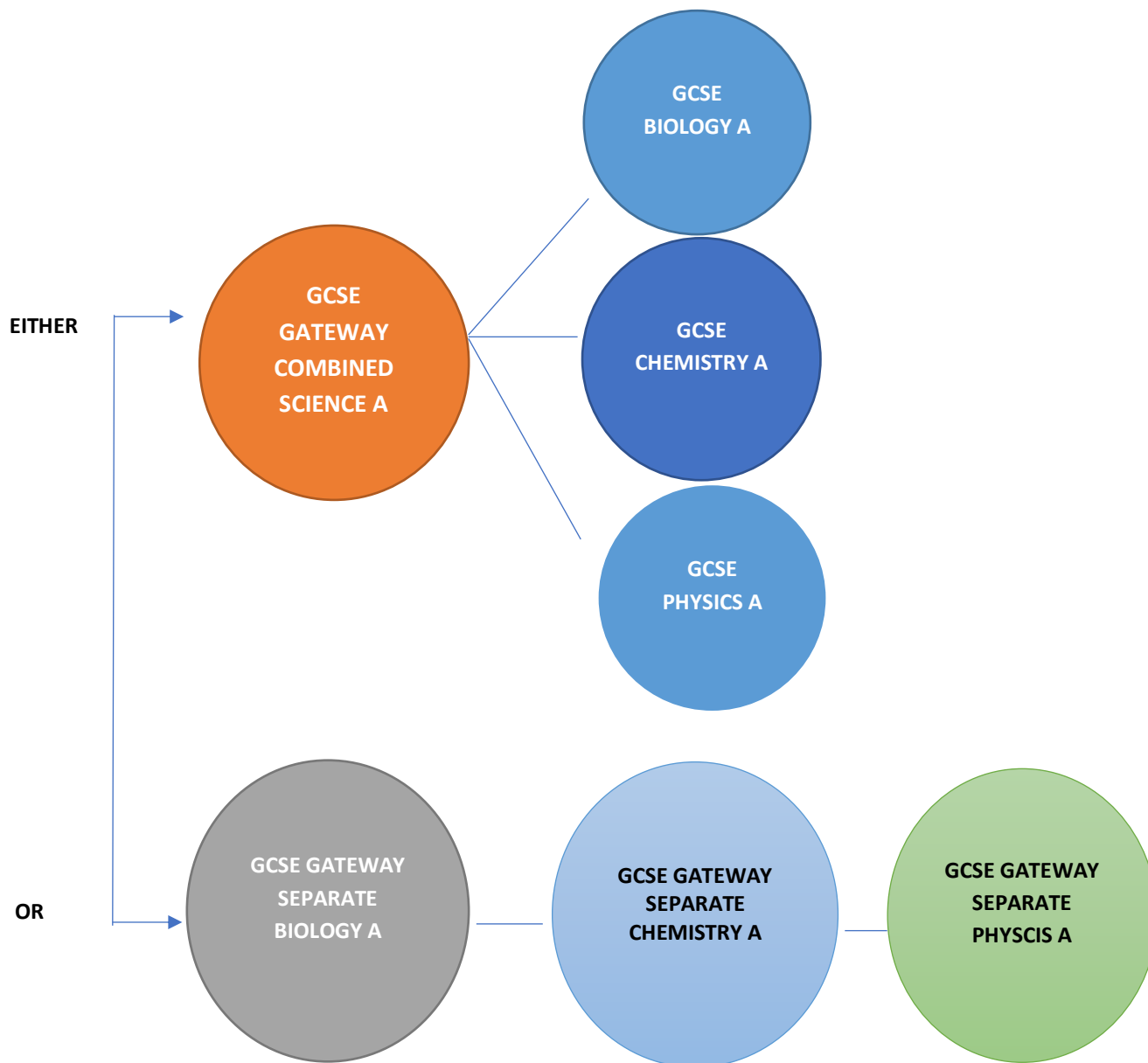


SCIENCE GCSE

Using OCR's GATEWAY SCIENCE SUITE, the possible combinations are;



Summary of Content

Biology A

Topic	Includes
Cell Level Systems	Cell structures; what happens in cells; respiration; photosynthesis
Scaling up	Supplying the cell; the challenges of size
Organism level systems	Coordination and control – the nervous system; coordination and control – the endocrine system; maintaining internal environments
Community level systems	Ecosystems
Genes, inheritance and selection	Inheritance; natural selection and evolution
Global challenges	Monitoring and maintaining the environment; feeding the human race; monitoring and maintaining health
Practical skills	Details of the Practical Activity Groups (PAGs) for Biology

Chemistry A

Topic	Includes
Particles	The particle model; atomic structure; atoms; molecules
Elements, compounds and mixtures	Separating mixtures; bonding; properties of materials
Chemical reactions	Chemical reactions; energy changes; types of chemical reactions; electrolysis
Predicting and identifying reactions and products	Predicting chemical reactions; identification of products of chemical reactions
Monitoring and controlling chemical reactions	Yield; atom economy; rate of reactions; equilibria
Global challenges	Improving processes and products; organic chemistry; composition of the atmosphere

Practical skills	Details of the Practical Activity Groups (PAGs) for Chemistry
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Physics A

Topic	Includes
Matter	The particle model; changes of state; pressure in gases and liquids
Forces	Motion; Newton's Laws; fields and forces causing changes
Electricity	Static and charge; simple circuits; electrical current, potential difference and resistance
Magnetism and magnetic fields	Magnets and magnetic fields; uses of magnetic fields
Waves in matter	Behaviour of mechanical and electromagnetic waves; the electromagnetic spectrum
Radioactivity	Radioactive emissions; radioactive decay
Energy	Work done; power and efficiency
Global challenges	How objects are affected by external factors; electricity production; characteristics of planets
Practical skills	Details of the Practical Activity Groups (PAGs) for Physics