Subject structure overview

Key Stage 3 Science

Biology - Unit title	**Prior knowledge required**	**Links to GCSE**
Cells, tissues and organs	KS2 Cells	B1 Cell biology, B2 Organisation
Reproduction and variation	KS2 Reproductive Cycles	B6 Inheritance, variation and evolution
Ecological relationships and classification	KS2 Ecosystems, Adaptations, Humans and animal over time	B6 Inheritance, variation and evolution, B7 Ecology
Digestion	KS3 Cells, KS2 Diet and Lifestyle	B2 Organisation
Plants and photosynthesis	KS3 Cells, KS2 Plants	B2 Organisation, B4 Bioenergetics
Biological systems and processes	KS3 Cells, KS2 Human anatomy	B2 Organisation, B4 Bioenergetics, B6 Inheritance, variation and evolution
Chemistry - Unit title	**Prior knowledge required**	
Particles	KS2 Particles in physical and chemical changes	C1 Atomic structure and periodic table, C2 Bonding, structure and the properties of Matter, P4 Atomic Structure
Chemical reactions	KS2 Physical and Chemical Changes	C3 Quantitative Chemistry C4 Chemical changes
Atoms and the periodic table	None	C1 Atomic structure and periodic table
Materials and the Earth	KS2 Rock cycle and Sustainability	C9 Chemistry of the atmosphere, C10 Using Resources
Reactivity	KS3 Atoms and the Periodic table, Chemical reactions	C1 Atomic structure and periodic table
Energetics and rates	KS3 Chemical reactions	C5 Energy changes, C6 The rate and extent of chemical change

Physics - Unit title	**Prior knowledge required**	
Energy	KS2 Energy	P1 Energy
Forces and motion	KS2 Forces	P5 Forces, P8 Space (Physics only)
Light and space	KS2 Light and Space	P6 Waves, P8 Space (Physics only)
Electricity and magnetism	KS2 Electricity	P2 Electricity, P7 Magnetism
Matter	KS3 Particles	P3 Particle Model of Matter, P4 Atomic Structure
Forces in action	KS3 Forces and motion	P5 Forces
Sound waves	KS2 Sound	P6 Waves, P8 Space (Physics only)