

Subject: Combined Science and Triple Science

Students begin GCSE sciences in Y9. We follow Edexcel 9-1 Combined Science; Biology; Chemistry; Physics.

In Year 9 every class will complete three full carousels for each science, which is nine carousels in total. Each class will study the content during different terms throughout the year. The Y9 carousels are four weeks in length for the first two and five for the last block.

Outlined below is the main content for each carousel block, however there will be some overlap of topics between each carousel block.

Biology

Carousel 1	Carousel 2	Carousel 3
B1 Key Concepts	B1 Key Concepts B2 Cells and control	B3 Genetics

Chemistry

Carousel 1	Carousel 2	Carousel 3
C1 Key concepts	C1 Key Concepts C2	C2 Triple - also C3 Acids

Physics

Carousel 1	Carousel 2	Carousel 3
P3 Conservation of energy	P4 Waves P5 Light and the electromagnetic spectrum	P2 Forces and Motion

Class	Carousel								
	Term 1			Term 2			Term 3		
	1	2	3	4	5	6	7	8	9
9TR1	P1	B1	C1	P2	B2	C2	P3	B3	C3
9TR2	C1	P1	B1	C2	P2	B2	C3	P3	B3
9TR3	B1	C1	P1	B2	C2	P2	B3	C3	P3
9CS1	C1	B1	P1	C2	B2	P2	C3	B3	P3
9CS2	P1	C1	B1	P2	C2	B2	P3	C3	B3
9CS3	B1	P1	C1	B2	P2	C2	B3	P3	C3

Y10

Subject: Combined Science and Triple Science

We follow Edexcel 9-1 GCSEs in: Combined Science; Biology; Chemistry; Physics.

Science groups are taught in carousel blocks.

In Year 10 the first three weeks cover consolidation of Y9 content studies. There are eight carousels which are four weeks in length with two final carousels of five weeks. They cover the specification content in every science, building on those already covered in Y9. The final carousels will mean that the students will not have completed a full rotation – the last one, outlined below, will be the first carousel in Y11.

Biology

Carousel 1	Carousel 2	Carousel 3
B7 Animal coordination, homeostasis and response	B8 Exchange and transport in animals	B3 Genetics

Chemistry

Carousel 1	Carousel 2	Carousel 3
C1 Key Concepts	C4 Extracting metals and equilibria C5 Separate Chemistry 1	C6 Groups in the periodic table C7 Rates of reaction and energy changes

Physics

Carousel 1	Carousel 2	Carousel 3
P2 Forces and Motion P7 Astronomy – Triple only	P9 Forces and their effects P12 Magnetism and the motor effect	P13 Electromagnetic induction P14 Particle model

Class	Carousel								
	Term 1			Term 2			Term 3		FIRST CAROUSEL IN Y11
	1	2	3	4	5	6	7	8	
10TR1	C1	B1	P1	C2	B2	P2	C3	B3	P3
10TR2	P1	C1	B1	P2	C2	B2	P3	C3	B3
10TR3	B1	P1	C1	B2	P2	C2	B3	P3	C3
10CS1	B1	P1	C1	B2	P2	C2	B3	P3	C3
10CS2	C1	B1	P1	C2	B2	P2	C3	B3	P3
10CS3	P1	C1	B1	P2	C2	B2	P3	C3	B3

Y11

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In Year 11 there are two main carousels for new topic content. The carousels after February half term are shorter in length as we move into a personalised and targeted in class revision programme.

Class	Carousel 1 Sept - Nov	Carousel 2 Nov - Feb
11TR1	Biology B1 Key concepts in biology B6 Plant structures and functions B7 Animal coordination, homeostasis and response B8 Exchange and transport in animals B9 Ecosystems and material cycles	Chemistry C6 Groups in the periodic table C7 Rates of reaction and energy changes C8 Fuels and Earth science C9 Separate Chemistry 2
11TR2	Physics P8 Energy - Forces doing work P9 Forces and their effects P10 Electricity and circuits P11 Static electricity – Triple only P12 Magnetism and the motor effect P13 Electromagnetic induction P14 Particle model P15 Forces and Matter	Biology B1 Key concepts in biology B6 Plant structures and functions B7 Animal coordination, homeostasis and response B8 Exchange and transport in animals B9 Ecosystems and material cycles
11CS1	Chemistry C6 Groups in the periodic table C7 Rates of reaction and energy changes C8 Fuels and Earth science	Physics P8 Energy - Forces doing work P9 Forces and their effects P10 Electricity and circuits P12 Magnetism and the motor effect P13 Electromagnetic induction P14 Particle model P15 Forces and Matter
11CS2	Biology B1 Key concepts in biology B6 Plant structures and functions B7 Animal coordination, homeostasis and response B8 Exchange and transport in animals B9 Ecosystems and material cycles	Chemistry C6 Groups in the periodic table C7 Rates of reaction and energy changes C8 Fuels and Earth science
11CS3	Physics P8 Energy - Forces doing work P9 Forces and their effects P10 Electricity and circuits P12 Magnetism and the motor effect P13 Electromagnetic induction P14 Particle model P15 Forces and Matter	Biology B1 Key concepts in biology B6 Plant structures and functions B7 Animal coordination, homeostasis and response B8 Exchange and transport in animals B9 Ecosystems and material cycles

