

Curriculum Map

Subject: KS3 Biology

Key Stage 3:		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Unit(s):	B1-Cells	B1-Cells	B2-Reproduction	B2-Reproduction	B3-Organisation	B3-Organisation
	Key skills and knowledge:	Observations Practical skills Calculations	Scientific drawing	Mature attitude	Ethical discussion	Exercise Practical skills	Maths Health and fitness
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links (Link with KS2)	Link with ART building model cells		Nurse visit Link to literacy - letter writing skills.	Links with life cycles from KS2	Link with PE, maybe do some PE sessions	Link with breathing from KS2
Year 8	Unit(s):	B4- Respiration	B4- Respiration	B5- Health	B5- Health	B6- Plants	B7- Ecosystems
	Key skills and knowledge:	Fitness Planning	Debate	Practical skills Debate	Maths Responsibility Ethics	Practical skills	Responsibility
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment

	Cross - curriculum links	Link with PE, maybe do some PE sessions	Teaching Primary schools about health and fitness	Field visits NYDA	RSPB reps visit Ecosystem garden	Garden BHS	Links with farming
Year 9	Unit(s):	B8- Genetics	B8- Genetics	B9- Infection	B9- Infection	GCSE - cells	GCSE - cells
	Key skills and knowledge:	Debate	Justifying answers Providing evidence	Practical skills	Explaining answers	Maths skills	Revision skills
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links	Careers - genetic engineer Citizenship link	Research visits Links with GCSE genetics unit Link with RS	Careers - Research scientist Links with history - discovery of antibiotics and vaccines	Links with GCSE infection unit PSHE link with STIs	Link with ART building model cells	

Subject: KS3 Chemistry

Key Stage 3:		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Unit(s):	Introductory unit	C1- Particles	C2- Atoms, elements	C2- Atoms, elements	C3- Chemical reactions	C3- Chemical reactions
	Key skills and knowledge:	Health and safety Recording data	Scientific drawing Modelling	IT Use of symbols	Discussion of theories	Practical skills	Maths skills
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links (Link with KS2)	Visit to a working lab Visiting health and safety advisor	Drama link for movement of particles	Drama link for parts of the atom	History link - discover of the atom	Link with industry	Working with primary schools during 2 day visit for year 6
Year 8	Unit(s):	C4- Acids and alkali	C4- Acids and alkali	C5- Periodic Table	C5- Periodic Table	C6- Separation techniques	C6-Separation techniques
	Key skills and knowledge:	Practical skills	Scientific drawing	Reviewing scientific sources	Compare and contrast	Practical skills Recording data	Interpreting data
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links	Health and safety visit	Link with everyday acids and alkalis and their uses	Link with history development of periodic table	STEM ambassadors visit and careers visits	STEM club	Working with primary schools during 2 day visit for year 6

Year 9	Unit(s):	C7-The Earth	C7-The Earth	C8-Materials	C8-Materials	GCSE- Atomic structure	GCSE- Atomic structure
	Key skills and knowledge:	Observation skills	Interpreting results	Predicting results	Observation skills	Reviewing sources	Revision skills
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links	Link with geology	Visit to quarry	Link with industry	LINK with DT and material use unit	History link of theories	Drama link for parts of the atom

Subject: KS3 Physics

Key Stage 3:		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Unit(s):	P1- Forces	P1- Forces	P2-Magnetism	P2-Magnetism	P3- Space	P3-Space
	Key skills and knowledge:	Scientific predictions Graph drawing Maths skills	Data processing Maths skills	Practical skills Application of knowledge	Scientific drawing	Analysing theories	Evaluating evidence
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links (Link with KS2)	Marine engineering workshop Links with maths	Links with KS2 forces of push and pull Link with DT	Link to magnetism and static electricity from the forces topic.	Links with magnets from KS2	Astronomy club	Observatory visit
Year 8	Unit(s):	P4-Energy	P4-Energy	P5- Electricity	P5- Electricity	P6- Waves	P6 - Waves
	Key skills and knowledge:	Maths skills Practical skills	Ethics	Maths skills Scientific drawing	Application of knowledge	Maths skills Practical work	Maths skills Application of knowledge
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links	Link with citizenship and DT	Energiser workshop	Some pupils could get involved with teaching year 6 during visits Links with maths	Visiting Electrical engineer	Link with Biology - the eye Links with GCSE waves	Link with Biology - ear Links with maths for calculations

Year 9	Unit(s):	P7-Motion	P7-Motion	P7-Motion	P7-Motion	GCSE Waves	GCSE Waves
	Key skills and knowledge:	Health and safety	Practical skills	Graph interpretation Practical skills	Observation skills	Ethics	Maths skills Practicals skills
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment
	Cross - curriculum links	Links with everyday life	Links to Chemistry	Formula one/motor industry/ nissan factory visit	Links with GCSE forces	Link with citizenship and DT	Visit to or from an energy company

Curriculum Map

Subject: Triple science Biology: GCSE AQA		Exam board: AQA	Quan code: 601/8752/9	Entry code: 8461 foundation or higher	Unit codes: 8461/1, 8461/2		
Key Stage 4:		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Unit(s):	Organisation	Bioenergetics	Infection and response	Infection and response	Homeostasis and response	Homeostasis and response
	Key skills and knowledge:	Application of knowledge	Maths skills	Practical skills Analysis of data	Using statistics	Interpreting data and diagrams/models of coordination and control systems.	Application of knowledge
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)
	Cross - curriculum links	Enzymes - stretch & challenge opportunity to link to enzymes from archae bacteria. PCR used in DNA fingerprinting and genome analysis.	Link with diffusion and gas exchange surfaces B1.6.	Link with history - discovery of antibiotics and vaccines Maths skills-correlations, look at maths skills MS2g.	Healthy living link Current affairs discussion-Coronavirus. Good opportunity to put the spread of disease, vaccination, drug testing into context.	Diabetes - link to non-communicable diseases. Link with Physics - the eye, refraction of light.	Sexual health link- STI's Link Ethics discussion - fertility treatments.
Year 11	Unit(s):	Inheritance	Inheritance	Ecology	Ecology	Exam time	Exam time
	Key skills and knowledge:	Application of knowledge.	Ethical debate	Ethical debate	Application of knowledge.		
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)		

			PR1 summative assessment	Homework(Keywords assessed in tutor time)			
	Cross - curriculum links	Link to mitosis B2.1	Visit to ecology park.	Link- antibiotic resistant bacteria by natural selection B15.8	Link to carbon dioxide in climate change topics B18.1, B18.4, B18.5.		

End of course external assessment:

Year 10 mock on topics covered so far

End of course external assessment:

Paper 1- Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics. (1hr 45) 50%

Paper 2 -Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology. (1hr 45) 50%

Higher and foundation options for exam papers

Curriculum Map

Subject: Triple science Chemistry: GCSE AQA		Exam board: AQA	Qan code: 601/8757/8	Entry code: 8462 foundation or higher	Unit codes: 8462/1, 8462/2		
Key Stage 4:		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Unit(s):	Atomic structure and the periodic table	Bonding, structure, and the properties of matter	Chemical changes	Quantitative chemistry	Energy changes	Rate of chemical change
	Key skills and knowledge:	Maths skills Practical skills Analysing theories	Spatial reasoning Practical skills	Practical skills	Maths skills Practical skills Maths skills Graph drawing Practical skills	Maths skills Practical skills Maths skills Graph drawing Practical skills	Maths skills Practical skills Graph drawing
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)
	Cross - curriculum links	History link development of periodic table Art / food link making models of atoms	Links with everyday life Link with industry	Link with industry STEM club	Links with GCSE Physics and year 9	Links with GCSE Physics and year 9	Maths link for calculations of rate
Year 11	Unit(s):	Energy changes recap Rate of Chemical change Organic chemistry	Organic chemistry Chemical analysis	Atmosphere	Using resources	Exam time	
	Key skills and knowledge:	Spatial reasoning Scientific drawing	Evaluating results maths skills Analysis techniques	Evaluating theories Analysing data	Evaluating theories Analysing data		

	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)		
	Cross - curriculum links	Trip to Wilton to look at fractional distillation / cracking	Visit from a chemist to discuss formulations	Link to the work of climate scientists and environmental activists	Visit to water treatment plant Links with DT materials	History link the work of Avogadro Links with Maths for calculations	
End of course external assessment: Year 10 mock on topics covered so far					End of course external assessment: Paper 1- Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes. (1hr 45) 50% Paper 2 - Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources. (1hr 45) 50% Higher and foundation options for exam papers		

Curriculum Map

Subject: Triple science Physics: GCSE AQA		Exam board: AQA	Qan code: 601/8751/7	Entry code: 8463 foundation or higher	Unit codes: 8463/1, 8463/2		
Key Stage 4:		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Unit(s):	Waves Energy	Energy Electricity	Electricity	Particle model of matter	Atomic structure	Space
	Key skills and knowledge:	Maths skills Practical skills	Maths skills Scientific drawing	Application of knowledge	Spatial reasoning Practical skills	Maths skills Practical skills Analysing theories	Analysing theories Evaluating evidence
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR1 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time) PR2 summative assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)
	Cross - curriculum links	Links with DT energy	Visit from electric company	Visiting Electrical engineer	Link with chemistry	Links with Chemistry	Visit to observatory or visit to space museum Links with GCSE astronomy
Year 11	Unit(s):	Space - set 1 Forces - sets 2&3	Forces - all	Magnetisms and electromagnets	Magnetisms and electromagnets	Exam time	Exam time
	Key skills and knowledge:	Data processing Maths skill	Maths skills Application of knowledge	Practical skills Application of knowledge	Practical skills Application of knowledge		
	Assessment	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking)	End of unit test (30 minutes self marking)	End of unit test (30 minutes self marking) AFL(Fast Fives and live marking)		

		Homework(Keywords assessed in tutor time)	Homework(Keywords assessed in tutor time) PR1 summative assessment	AFL(Fast Fives and live marking) Homework(Keywords assessed in tutor time)	Homework(Keywords assessed in tutor time)		
	Cross - curriculum links	Links with Maths for calculations	Links with the eye and ear in Physics	visit to power plant which uses electromagnetic induction	visit to power plant which uses electromagnetic induction		
End of course external assessment: Year 10 mock on topics covered so far				End of course external assessment: Paper 1- Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure. (1hr 45) 50% Paper 2 - Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics. (1hr 45) 50% Higher and foundation options for exam papers			