

Science Curriculum Plan 23-24 – Nuneaton Academy

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KEY STAGE 3

YEAR	1 st Half of the year (Sept – January)	2 nd Half of the year (Jan –July)
7	<p>A grounding in the building blocks of the three science disciplines. Introduction of abstract concepts</p> <ul style="list-style-type: none"> • Particles • Cells • Energy • Reproduction 	<p>Application of the building blocks of the three disciplines and applying real life examples</p> <ul style="list-style-type: none"> • Reproduction • Chemical reactions • Forces • Plants and photosynthesis
	Mid-Year Assessment: Particles, Cells, Energy	End of Year Assessment: Particles, Cells, Energy, Reproduction, Chemical reactions and Forces
8	<p>Adapting the UL curriculum sequence to provide a complete KS3 curriculum there are some topics studied by Y8 for 23-24 that are also studied by current Y7 students. The curriculum for Y8 24-25 will follow UL.</p> <ul style="list-style-type: none"> • Cells • Atoms and periodic table 	<ul style="list-style-type: none"> • Chemical reactions • Magnetism • Plants and photosynthesis • Ecological relationships • Forces in action

	<ul style="list-style-type: none"> • Light • Digestion and Nutrition • Forces 	
	<p>Mid-Year Assessment: N/A Assessment through the year with end of topic tests</p>	<p>End of Year Assessment: Cells, Atoms and Periodic table, Light, Chemical reactions, Magnetism, plants and photosynthesis</p>
<p>9</p>	<p>Topics covered in Y7 and 8 are dealt with in more depth with a focus on preparation for GCSE level learning.</p> <ul style="list-style-type: none"> • Forces in action • Reactivity • Electricity and magnetism • Matter • Energetics and rates 	<ul style="list-style-type: none"> • Biological systems • Plants and photosynthesis <p>Following the Easter holidays students will begin AQA GCSE topics</p> <ul style="list-style-type: none"> • Particles • Atomic structure and periodic table • Cell biology

	Mid-Year Assessment: N/A Assessment through the year with end of topic tests	End of Year Assessment: Forces in action, reactivity, electricity and magnetism, matter, energetics and rates, biological systems, plants and photosynthesis
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KEY STAGE 4 Combined science

YEAR	1 st Half of the year (Sept – Jan)		2 nd Half of the year (Jan – July)	
10	AQA GCSE Combined science <ul style="list-style-type: none"> • Cell biology B1 • Energy • Bonding • Organisation • Electricity • Quantitative Chemistry 		<ul style="list-style-type: none"> • Infection and response • Atomic structure • Chemical changes • Bioenergetics • Energy changes • Ecology 	
	Mid-Year Assessment: Cell biology, Organisation, Particles, Energy, Atoms and periodic table, bonding		End of Year Assessment: Paper 1 GCSE	
YEAR	September – November	December – March	March - June	
	<ul style="list-style-type: none"> • Ecology • Rates of reaction 	<ul style="list-style-type: none"> • Using resources • Atmosphere • Forces 	Bespoke curriculum for the need of each class based on gaps identified from the mock exams	

11	<ul style="list-style-type: none"> • Organic chemistry • Chemical analysis 	<ul style="list-style-type: none"> • Waves 	
	November Mock Exam: Paper 1 GCSE	March Mock Exam: Paper 2 GCSE	ACTUAL GCSE EXAM

GCSE BIOLOGY

YEAR	1 st Half of the year (Sept – Jan)	2 nd Half of the year (Jan – July)
10	<ul style="list-style-type: none"> • Cell biology • Organisation • Infection and response 	<ul style="list-style-type: none"> • Infection and response • Bioenergetics • Homeostasis • Inheritance • Ecology

	Mid-Year Assessment: Same as combined Science		End of Year Assessment: Paper 1 Biology
YEAR	September – November	December – March	March - June
11	<ul style="list-style-type: none"> • Ecology • Cell biology revision • Organisation revision • Infection and response revision 	<ul style="list-style-type: none"> • Bioenergetics revision • Homeostasis revision • Inheritance revision 	Bespoke curriculum for the need of the class based on gaps identified from the mock exams
	November Mock Exam: Paper 1 Biology	March Mock Exam: Paper 2 Biology	ACTUAL GCSE EXAM

GCSE CHEMISTRY

YEAR	1 st Half of the year (Sept – Jan)	2 nd Half of the year (Jan – July)
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10	<ul style="list-style-type: none"> • Atomic structure, periodic table • Bonding, structure, properties • Quantitative chemistry 		<ul style="list-style-type: none"> • Chemical changes • Energy changes • Rates of reaction 	
	Mid-Year Assessment: Same as combined Science		End of Year Assessment: Paper 1 Chemistry	
YEAR	September – November	December – March	March – June	
11	<ul style="list-style-type: none"> • Rates of reaction • Organic chemistry • Chemical analysis • Atmosphere • Resources 	<ul style="list-style-type: none"> • Atomic structure, periodic table revision • Bonding, structure, properties revision • Quantitative chemistry revision • Energy changes revision • Rates of reaction revision • Chemical analysis revision • Atmosphere revision 	Bespoke curriculum for the need of the class based on gaps identified from the mock exams	
	November Mock Exam: Paper 1 Chemistry	March Mock Exam: Paper 2 Chemistry	ACTUAL GCSE EXAM	

GCSE PHYSICS

YEAR	1 st Half of the year (Sept – Jan)		2 nd Half of the year (Jan – July)	
10	<ul style="list-style-type: none"> • Energy • Electricity • Particle model recap • Atomic structure 		<ul style="list-style-type: none"> • Forces • Magnetism • Waves • Space 	
	Mid-Year Assessment: Same as combined Science		End of Year Assessment: Enter details here	
YEAR	September – November	December – March	March - June	
11	<ul style="list-style-type: none"> • Forces • Magnetism • Waves • Space 	<ul style="list-style-type: none"> • Forces revision • Magnetism revision • Waves revision 	Bespoke curriculum for the need of the class based on gaps identified from the mock exams	

	November Mock Exam: Paper 1 Physics	March Mock Exam: Paper 2 Physics	ACTUAL GCSE EXAM