



Verulam School: Key Stage 4 CURRICULUM INFORMATION

Department: Science

Subject Leader: Mr L Charmokly

Subject Vision: Our Science curriculum is designed to develop our students as strong independent thinkers who are curious about the world around them and develop their own scientific interests. We want them to have a range of complex scientific & transferable skills that allows them to make reasoned judgments for themselves and for the wider community.

	YEAR 10					
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit Title	Biology Cells Chemistry Atomic Structure, periodic table and separating mixtures. Physics Electricity	Biology Organisation in the Human body Chemistry Bonding Chemical Calculations Physics Particle model of matter	Biology Organisation in Plants Chemistry Chemical Changes Electrolysis Physics Atomic structure	Biology Infection and response Chemistry Energy Changes Physics Forces	Biology Infection and response Chemistry Rates and Equilibria Physics Forces	Biology Infection and response Chemistry Rate and Equilibria (contd) Physics Energy recap
Assessment	Written assessment 20 mark in-book assessment sheet including multiple choice, short answer and a 6-mark extended writing question.	Written assessment 20 mark in-book assessment sheet including multiple choice, short answer and a 6-mark extended writing question. End of module (term 1) Test)	Threshold 1 exams All the content covered so far from the GCSE course. 3 x 45-minute exams in lessons in biology, chemistry and physics	Written assessment 20 mark in-book assessment sheet including multiple choice, short answer and a 6-mark extended writing question.	Written assessment 20 mark in-book assessment sheet including multiple choice, short answer and a 6-mark extended writing question.	Threshold 2 EOY exams All the content covered this year 3 x 45-minute exams in lessons in biology, chemistry and physics

			Decisions for triple, combined and initial tiers.	End of module (term 2) Test)	Some crossover with term autumn 1 and 2 and spring 1 content	Further evaluation of divisions for triple, combined and initial tiers.
YEAR 11						
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit Title	Biology Bioenergenetics Chemistry Paper 2 Rates of Reactions and equilibria Organic Chemistry Physics Waves	Biology Homeostasis and response Chemistry Paper 2 Organic continued Chemical Analysis Physics Waves	Biology Inheritance, Genetics, and Evolution Chemistry Paper 2 Using Resources Physics Electromagnetism	Biology Revision Chemistry Revision Physics Revision	Biology Revision Chemistry Revision Physics Revision	Biology Revision Chemistry Revision Physics Revision
Assessment	Written assessment 20 mark in-book assessment sheet including multiple choice, short answer and a 6-mark extended writing question. Paper 1 content	TRIALS 1 Initial decisions for tiers of entry after the exam's results analysis.	Written assessment 20 mark in-book assessment sheet including multiple choice, short answer and a 6-mark extended writing question. Paper 2 content.	TRIALS 2 Final decisions for tiers of entry after the exam's results analysis.	REVISION AND SUMMER EXAMS	REVISION AND SUMMER EXAMS