Aylesbury UTC
Curriculum Map

Subject - Science

		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 9	CONTENT						
	SKILLS						
	THEMES						
YEAR 10	CONTENT	-Human growth -Exercise	-Electricity -Cell biology -Atoms and the periodic table	-Energy -Structure and bonding	-Organisation -Chemical quantities and calculations -Particle Model - Atomic Structure	-Chemical change -Infection	-Energy change -Bioenergetics -Mock revision -Mock exams
	SKILLS	Basic analytical skills. Basic practical skills	Building circuits and analysing data Drawing and intepreting graphs Use of command words	Calculations in both word and number questions Analysis of chemical structure based on physical properties	Calculations applied to practical situations Understanding how the building blocks add up to create functions	Application of periodic table and structure to chemical reactions and industrial processes Using data to promote health	Application of chemical reactions to biological processes

Aylesbury UTC
Curriculum Map

	THEMES	Linking ideas together Working logically through steps	Basics of the world around you	How structure impacts function and environment	How structure impacts function and environment (cont.)	How science can impact society	How does the chemistry affect your body
YEAR 11	CONTENT	-Ecology	-Rate and extent of chemical change -Mock revision -Mock exams -Inheritance	-Forces -Hydrocarbons -Chemical analysis	-Waves -Mock exams -Sustainable development -Homeostasis	-Electromagnetism -Revision	
	SKILLS	Sampling Unfamiliar context questions	Recognition and understanding of command words Recap of content in year 10 and how to revise	Use of physics equations Modelling chemical compounds Practical skills and analysis of results	How to analyse things we can't see Key exam prep based on results from first mock	Fine tuning exam skills	
	THEMES	The natural world	Key exam prep	Discovery of structure through external analysis	How to keep things in balance	How to use the knowledge we have gained effectively	
YEAR 12	CONTENT	-Cells	-Genetics -Immunology	-Epidemiology and health promotion -Homeostasis	-Body Systems -Cancer	-Large molecules -Enzymes -Transport mechanisms	-Revision
	SKILLS	Extending knowledge from GCSE How to use microscopes and perform calculations	Learning the level of detail that is required for this course Linking the science into the health work that has been done with Tom	Linking the science into the health work that has been done with Tom How to analyse data about health	How structure links to the function of different body systems	Taking the structure to function link a level deeper to molecular size	

Aylesbury UTC
Curriculum Map

	THEMES	How are things made		How to keep things in balance	How the body works	How small units interact to create complex functions	
YEAR 13	CONTENT						
	SKILLS						
	THEMES						