



Curriculum Overview 2019-20: Science

Year Group	Autumn Term	Spring Term	Summer Term	Useful information / websites
Year 7	Acids and alkalis Living systems Forces and motion	Particle nature of matter Reproduction and growth Electricity and electromagnets	Diet and health ecosystems	Seneca Bitesize Firefly
Year 8	Genetics and evolution Energy	Photosynthesis, respiration and circulation. waves	Chemicals and their reactions	Seneca Bitesize Firefly
Year 9	Exam specification: AQA combined science and separate science			Seneca Bitesize Firefly Kerboodle
Combined SC	Cell structure and cell transport Organisation Atom structure and periodic table Organic Chemistry Using resources Chemistry of the atmosphere Atomic structure/radiation Particle model of matter Energy	Cell structure and cell transport Organisation Atom structure and periodic table Organic Chemistry Using resources Chemistry of the atmosphere Atomic structure/radiation Particle model of matter Energy	Cell structure and cell transport Organisation Atom structure and periodic table Organic Chemistry Using resources Chemistry of the atmosphere Atomic structure/radiation Particle model of matter Energy	
Triple Science	Atom structure and periodic table Organic Chemistry	Cell structure and cell transport Infection and response	particle model of matter Atomic structure/radiation Static electricity	
Year 10	Exam specification: AQA combined science and separate science			Seneca Bitesize Firefly Kerboodle
	bioenergetics Infection and response The rate and extent of chemical changes Chemical Analysis Energy changes	Magnetism and Electromagnetism Electricity Chemical Changes Ecology	Ecology Homeostasis and response Bonding and structure and the properties of matter	



ASTON MANOR ACADEMY



Triple Science	Using resources Infection and response (Monoclonal antibodies, Plant disease)	Chemical analysis(4.8.3 Identification of ions by chemical and spectroscopic means) Chemical changes (Titrations) Structure and bonding (Bulk and surface properties of matter including nanoparticles) Energy changes(Chemical cells and fuel cells) Magnetism and electromagnets (Loudspeakers) Space physics Redshift	Homeostasis and response: the eye; The brain; control of body temperature; Maintaining water and nitrogen balance in the body; Plant hormones Ecology: Decomposition; Impact of environmental change; Trophic levels in an ecosystem; Food production	
Year 11	Exam specification: AQA combined science and separate science			
	Homeostasis and Response Structure and Bonding Inheritance, Variation and Evolution Quantitative Chemistry	Inheritance, Variation and Evolution Quantitative Chemistry Forces and Energy Forces and Motion	Revision	Seneca Bitesize Firefly Kerboodle
Triple Science	Space physics Homeostasis and Response Using concentrations of solutions in mol/dm ³	Using concentrations of solutions in mol/dm ³ Yield and atom economy of chemical reactions		

ALL DIFFERENT · ALL EQUAL · ALL ACHIEVING