

North Durham Academy – Science Curriculum

KS3	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 7	Structure and Function of Living Organisms- Cells and Organisation	The particulate nature of matter- The Particle Model	Forces and Motion Speed	Inheritance, Chromosomes DNA and Genes- Variation	Space Physics- The Solar System	Waves- Sound Waves
	Electricity and Electromagnetism- Voltage and Current	Reproduction - Reproduction in Plant	Pure and Impure Substances- Separating Mix- ture	Chemical Reactions- Acids and Alkali	Earth and Atmosphere- Climate	Reproduction- Reproduction in Humans
Year 8	Waves- Light Waves	The Periodic Table and Materials- Mendeleev principles and Reactivity	Atoms, Elements and Compounds- Elements and Compounds	Structure and Function of Living Organism- Gas Exchange System Health- Effects of Recreational drugs (Smoking)	Earth and Atmosphere- Earth Structure	Interactions and Interdependencies- Interdependence
		Energy Changes and Transfers	Electricity and Electromagnetism- Resistance	Electromagnets and Magnetism- Magnetism		
	Structure and Function of Living Organisms- The Skeletal and muscular Systems	Structure and Function of Living Organisms- Nutrition and Digestion				

Year 9	Material cycles and Energy- Cellular Respiration and Photosynthesis	Chemical Reactions - Metals and Non Metals	Genetics and Evolution- Inheritance, chromosomes, DNA and Genes	Forces- Work	Earth and Atmosphere- Earths Resources	Bridging Unit
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KS4 Biology	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 10	Cell Biology	Organisation	Communicable and Non-communicable disease	Bioenergetics	Culmination of Cell Biology, Organisation, communicable- non-communicable disease and Bioenergetics.	Ecology
Year 11	Homeostasis and response	Inheritance, Variation and Evolution	Inheritance, Variation and Evolution and recap of Paper 2	Culmination of Cell Biology, Organisation, communicable- non-communicable disease and Bioenergetics, homeostasis and response, inheritance and evolution	Culmination of Cell Biology, Organisation, communicable- non-communicable disease and Bioenergetics, homeostasis and response, inheritance and evolution	