Moor House School & College Curriculum Map

SUBJECT: Science YEAR GROUP/PATHWAY: Year 11 Entry Level					
Autumn 1	Biology – Environment, Evolution & Inheritance	Biology – Environment, Evolution & Inheritance			
Knowledge	Core: Photosynthesis	Biology – Environment, Evolution & Inheritance Core: Adaptations, Food Chains and Food Webs and Competition	Core: Decomposition, Environmental Changes and Pollution		
Knowledge & Skills	Core – students to demonstrate understanding of: - The Sun as the source of energy and the role of plants in photosynthesis - Animals and plants may be adapted for survival in the conditions where they normally live - Describe the food chains in a food web and the links between species in the web - Competition in plants as animals		Core: students to demonstrate understanding of:		
Vocabulary	Photosynthesis	Interdependence Prey Adaptation Producer Habitat Consumer Predator Food Chain Food Web	Decay Pollution Recycle		
Autumn 2	Biology – Environment, Evolution & Inheritance	Biology – Environment, Evolution & Inheritance			
Knowledge	Core: Evolution	Core: Reproduction and Genetics			
Knowledge & Skills	Core – students to demonstrate understanding of: - Darwin's theory of natural selection - Artificial selection	Core – students to demonstrate understanding of: - Sexual vs asexual reproduction - Human genetics			
Vocabulary	Natural Selection Artificial Selection Evolution	Sexual Reproduction Asexual Reproduction Genetics			
Spring 1	Chemistry – Chemistry in our World	Chemistry – Chemistry in our World	Chemistry – Chemistry in our World		

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Knowledge	Core: pH Interpretation Core – students will demonstrate understanding of: - Acid and Alkali's - Neutralisation reactions		Core: Rates of reaction Core – students will demonstrate understanding of: - Factors that affect rates of reactions - Energy in a reaction - Increasing the rate of a chemical reaction		Core: Earth's Atmosphere Core – students will demonstrate understanding of: - Changes in our earth's atmosphere - Our current earth's atmosphere - Human influence on the earth's atmosphere	
Knowledge & Skills						
Vocabulary	Reactions Acids	Alkali Neutralisation	Energy Rate of Reaction Endothermic Exothermic	Temperature Concentration Catalyst	Atmosphere	

Spring 2	Chemistry – Chemistry in our World	Chemistry – Chemistry in our World		
Knowledge	Core: Fossil Fuels	Core: Water		
Knowledge & Skills	Core – students will demonstrate understanding of: - Crude oil and fuels - Burning fuels	Core – students will demonstrate understanding of: - Water for drinking		
Vocabulary	Fuel Burning Fuels Crude Oil Distil Fractional Distillation	Potable water Sterilise		
Summer 1	Physics – Electricity, Magnetism and Waves	Physics – Electricity, Magnetism and Waves	Physics – Electricity, Magnetism and Waves	
Knowledge	Core: Electricity	Core: Magnetism	Core: Waves	
Knowledge & Skills	Core – students to demonstrate understanding of: - Current in a circuit	Core – students to demonstrate understanding of: - Magnet properties	Core – students to demonstrate understanding of: - Longitudinal vs. transverse waves	

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	- Alternating and direct cur - Wiring a plug - Energy transfer in electric - Useful vs. Wasted Energy		- Electromagnets and solenoids nces		 Wave properties The electromagnetic spectrum Uses of the electromagnetic spectrum 	
Vocabulary	Electricity Current Circuit Alternating current Useful energy	Direct current Earth wire Live wire Neutral wire Fuse box Wasted energy	Permanent magnet Induced magnetic	Electromagnet Solenoid	Longitudinal waves Transverse waves Amplitude Wavelength	Electromagnetic spectrum Peak Trough
Summer 2 Knowledge						
Knowledge & Skills						
Vocabulary						