Moor House School & College Curriculum Map

SUBJECT: Science ***YEAR GROUP/PATHWAY: Year 9 Entry Level***			
Autumn 1	**Biology – The Human Body**	**Biology – The Human Body**	**Biology – The Human Body**
Knowledge	Core: Cells	Core: Organ Systems	Core: Infectious Disease
Knowledge & Skills	Core – students to demonstrate understanding of: - Animal Cells	Core – students to demonstrate understanding of - Tissues, Organ and Organ systems - Human Digestive System - Respiration - Lifestyle & Health - The Nervous System	Core- students to demonstrate understanding of - Infectious Diseases - The role of white blood cells
Vocabulary	Animal Cells Nucleus Cytoplasm Cell Membrane Specialised Cells	Tissue Organ Organ System Digestive System Mouth Oesophagus Stomach Small Intestine Large Intestine Infectious Disease Rectum Enzyme Respiration Trachea Lungs Diet Exercise Diabetes Bronchus Bronchioles	Infectious Disease Pathogens Bacteria Fungi Virus Whit Blood Cells
Autumn 2	**Biology – The Human Body**	**Biology – The Human Body**	
Knowledge	Core Hormones	Core Medicinal Drugs	
Knowledge & Skills	Core – students to demonstrate understanding of - Hormonal control - Hormones that can be used for fertility	Core – students to demonstrate understanding of - Types of medicinal drugs - Process of drug testing	
Vocabulary	Fertility Hormones Contraception	Drug Testing Antibiotics Painkillers	

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Spring 1	Chemistry – Elements, Mixtures and Compounds	Chemistry – Elements, Mixtures and Compounds	Chemistry – Elements, Mixtures and Compounds
Knowledge	Core Atoms and Elements	Core States of Matter and Allotropes	Core Mixtures and Chromatography
Knowledge & Skills	Core – students will demonstrate understanding of - Atoms - Elements - Compounds	Core – students will demonstrate understanding of - Solid, Liquids and Gases - Forms of carbons	Core – students will demonstrate understanding of - Mixtures - Chromatography
Vocabulary	Atoms Periodic Table Elements	Carbon States of Matter	Mixtures Chromatography

Spring 2	Chemistry – Elements, Mixtures and Compounds	Chemistry – Elements, Mixtures and Compounds	Chemistry – Elements, Mixtures and Compounds
Knowledge	Core Metals and Ores	Core Properties of Metals	Core Alloys
Knowledge & Skills	Core – students will demonstrate understanding of - Reactivity of metals - Ores	Core – students will demonstrate understanding of - Insulators - Conductors - Thermal Energy	Core – students will demonstrate understanding of - Alloys - Monomers - Polymers
Vocabulary	Metals Ore Ores Quarrying Reactive	Conductors Insulators	Alloys Polymers Monomers
Summer 1	**Physics – Energy, Forces and Structure of Matter**	**Physics – Energy, Forces and Structure of Matter**	**Physics – Energy, Forces and Structure of Matter**
Knowledge	Core Energy Changes	Core Energy Transfer and Efficiency	Core Energy Resources
Knowledge & Skills	Core – students to demonstrate understanding of - Changes in energy stores	Core – students to demonstrate understanding of - Energy transfer	Core – students to demonstrate understanding of - Fossil fuels

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	- Useful vs. Wasted Energy	- Efficiency - Thermal conductivity - Insulation	- Renewable resources - Non-Renewable resources
Vocabulary	Energy Wasted Energy Useful Energy	Energy Transfer Energy Efficiency	Energy Resources Renewable Energy Non-Renewable
Summer 2	**Physics – Energy, Forces and Structure of Matter**	**Physics – Energy, Forces and Structure of Matter**	**Physics – Energy, Forces and Structure of Matter**
Knowledge	Core Types of Forces and Effects of Forces	Core Speed, Stopping Distance, Reaction Time and Braking Distances	Core Radioactivity
Knowledge & Skills	Core – students to demonstrate understanding of - Contact vs. Non-Contact Forces - Word Done	Core – students to demonstrate understanding of - Speed - Distance - Time - Stopping Distance - Reaction time - Braking Distance - Adverse Weather	Core – students to demonstrate understanding of - Types of radiation
Vocabulary	Force Friction	Speed Reaction Time Braking Distance Stopping Distance	Radiation