

Moor House School & College Curriculum Map

SUBJECT: Science								
YEAR GROUP/PATHWAY: Year 10 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: <ul style="list-style-type: none"> - Atoms - Elements - Compounds 	Core – students will demonstrate understanding of: <ul style="list-style-type: none"> - Solid, Liquids and Gases - Forms of carbons 	Core – students will demonstrate understanding of: <ul style="list-style-type: none"> - Mixtures - Chromatography
Vocabulary	Atoms Elements Periodic Table	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: <ul style="list-style-type: none"> - Reactivity of metals - Ores 	Core – students will demonstrate understanding of: <ul style="list-style-type: none"> - Insulators - Conductors - Thermal Energy 	Core – students will demonstrate understanding of: <ul style="list-style-type: none"> - Alloys - Monomers - Polymers
Vocabulary	Metals Ores Reactive Ore Quarrying	Conductors Insulators	Alloys Monomers Polymers
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: <ul style="list-style-type: none"> - Changes in energy stores 	Core – students to demonstrate understanding of: <ul style="list-style-type: none"> - Energy transfer 	Core – students to demonstrate understanding of: <ul style="list-style-type: none"> - 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 - Work 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