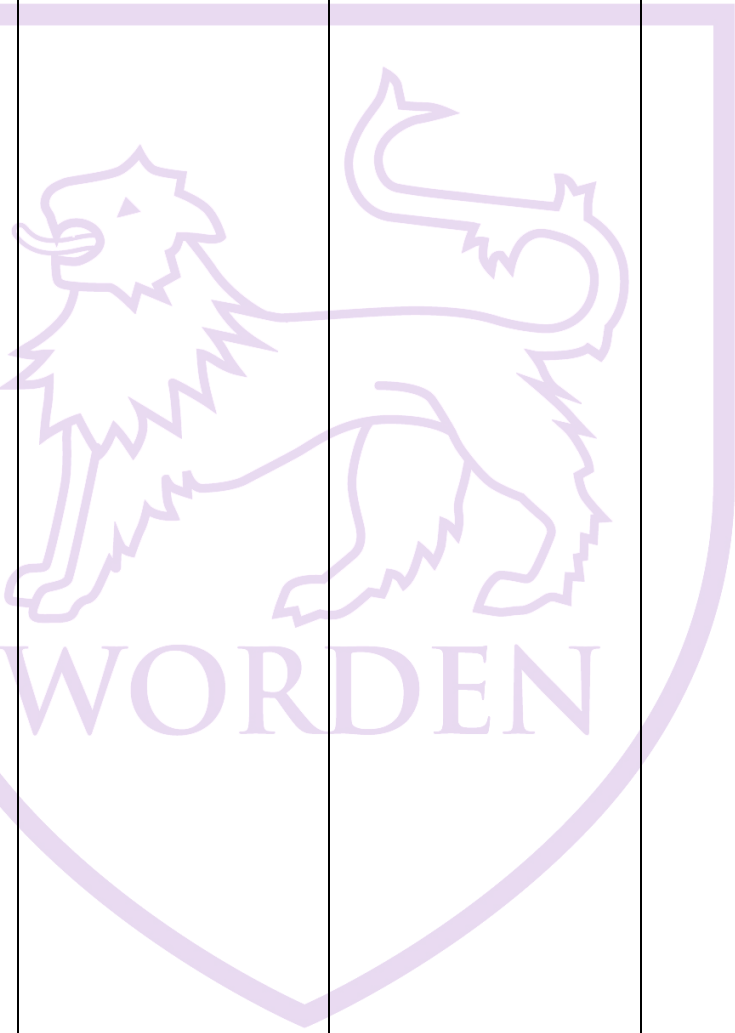


Subject: Science**Year: 9**

<u>Autumn HT1</u>	<u>Autumn HT2</u>	<u>Spring HT1</u>	<u>Spring HT2</u>	<u>Summer HT1</u>	<u>Summer HT2</u>
<u>Electromagnets: Electromagnets and Magnetism:</u> <ul style="list-style-type: none">• Magnetic poles, attraction and repulsion• Magnetic fields by plotting with compass, representation by field lines• How to set up a simple series circuit• Magnetic effect of a current, electromagnets• Explaining how to change the strength of an electromagnet• Uses of electromagnets	<u>Reactions : Metals & Non-metals & Acids & Alkalis</u> <ul style="list-style-type: none">• Identifying an acid based on properties and indicator results.• Identifying alkalis based on properties and indicator results• Understanding neutralisation and the products formed.• Products of a metal and acid reaction• Apply the reactivity series to	<u>Energy: Work & Heating & Cooling.</u> <ul style="list-style-type: none">• Effect of simple machines on energy transferred• Materials reaching thermal equilibrium via conduction, convection and radiation• Insulating materials	<u>Waves: Wave effects and wave properties</u> <ul style="list-style-type: none">• Sound waves as pressure waves and their uses• Light as part of a spectrum and it's uses• Comparing longitudinal and transverse waves	<u>Ecosystems : Respiration and Photosynthesis.</u> <ul style="list-style-type: none">• Aerobic and anaerobic respiration in living organisms• Photosynthesis as a means of producing carbohydrates• Adaptations of leaves, focus on stomata in gas exchange• Transpiration• Minerals in plants	<u>Organisms : Breathing and Digestion.</u> <ul style="list-style-type: none">• Breathing and gas exchange in humans• Effects of disease and lifestyle on organ systems• Adaptations in the tissue and organs of the digestive system

Ludus Admirandus

<ul style="list-style-type: none"> • The Motor Effect 	<p>displacement reactions</p> <ul style="list-style-type: none"> • Products of an oxidation reaction <p><u>Earth : Climate and Earth resources:</u></p> <ul style="list-style-type: none"> • Composition of the Earth's atmosphere • The carbon cycle and how humans are adding Carbon to the atmosphere • The greenhouse effect and consequences of global warming • Extracting Earth's resources 				
--	--	---	--	--	--