

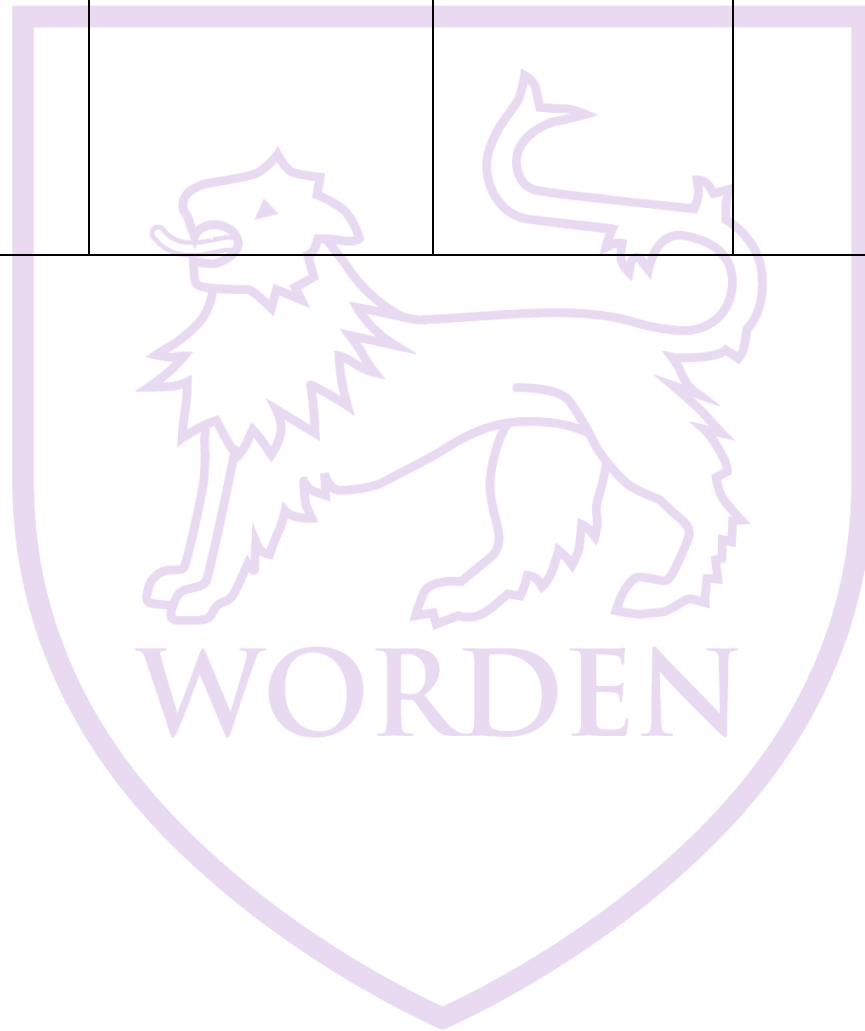
**Subject: Science****Year: 7**

<b><u>Autumn HT1</u></b>	<b><u>Autumn HT2</u></b>	<b><u>Spring HT1</u></b>	<b><u>Spring HT2</u></b>	<b><u>Summer HT1</u></b>	<b><u>Summer HT2</u></b>
<b><u>Key Skills: Safety in Science.</u></b> <ul style="list-style-type: none"><li>• Safety</li><li>• Identifying equipment</li><li>• How to use a Bunsen Burner</li><li>• Recording and displaying data</li><li>• Planning an investigation</li></ul>	<b><u>Organisms: Movement and Cells.</u></b> <ul style="list-style-type: none"><li>• The role of the Human skeleton</li><li>• Biomechanics - The role of joints and muscles</li><li>• Hierarchical organisation of multicellular organisms</li><li>• Functions of organelles in animal and plant cells</li><li>• Adaptations of specialised cells</li></ul>	<b><u>Genes: Variation &amp; Human Reproduction</u></b> <ul style="list-style-type: none"><li>• Types of variation between individuals within a species</li><li>• Structure and function of the female reproductive system</li><li>• Structure and function of the male reproductive system</li><li>• Foetal development</li></ul>	<b><u>Waves: Sound &amp; Light</u></b> <ul style="list-style-type: none"><li>• Frequency of sound waves and medium of travel</li><li>• Reflection and absorption of sound</li><li>• Speed of light waves and differences between light and matter waves</li><li>• Reflection of light</li><li>• Refraction</li></ul>	<b><u>Earth 1: Structure and the Universe</u></b> <ul style="list-style-type: none"><li>• Structure and composition of the Earth</li><li>• The rock cycle</li><li>• Describing stars and galaxies</li><li>• The Earth's motion</li><li>• Gravity as a force, weight and mass calculations</li><li>• Exploring the universe</li></ul>	<b><u>Forces 2 : Contact Forces and Pressure.</u></b> <ul style="list-style-type: none"><li>• Motion as a result of balanced and unbalanced forces</li><li>• Resistive forces and effects on motion</li><li>• Relationship between force and extension (Hook's Law)</li><li>• Pressure in solids</li><li>• Pressure in fluids</li></ul>

*Ludus Admirandus*

<p><b><u>Matter: Particles &amp; Separating Mixtures</u></b></p> <ul style="list-style-type: none"> <li>• Using particles to explain matter</li> <li>• Understanding solids, liquids and gases</li> <li>• What is diffusion and factors that affect diffusion</li> <li>• Explaining Changes of state</li> <li>• Separation techniques</li> <li>• What are solutions and factors affecting solubility</li> <li>• Separating solutions by</li> </ul>	<ul style="list-style-type: none"> <li>• Using a light microscope</li> <li>• Structural adaptations of unicellular organisms</li> </ul>	<ul style="list-style-type: none"> <li>• Stages of the menstrual cycle (no hormones)</li> </ul> <p>2023 Re write Genes 1</p> <ul style="list-style-type: none"> <li>• Human reproductive systems</li> <li>• Puberty</li> <li>• Stages of the menstrual Cycle (no hormones)</li> <li>• Sex cells and fertilisation</li> <li>• Development of a baby</li> <li>• Fertility and IVF</li> <li>• Variation</li> </ul>	<ul style="list-style-type: none"> <li>• Coloured light</li> </ul>		<ul style="list-style-type: none"> <li>• Floating and sinking</li> </ul>
--	---	---	--	--	--

distillation and chromatography					
---------------------------------	--	--	--	--	--



*Ludus Admirandus*