

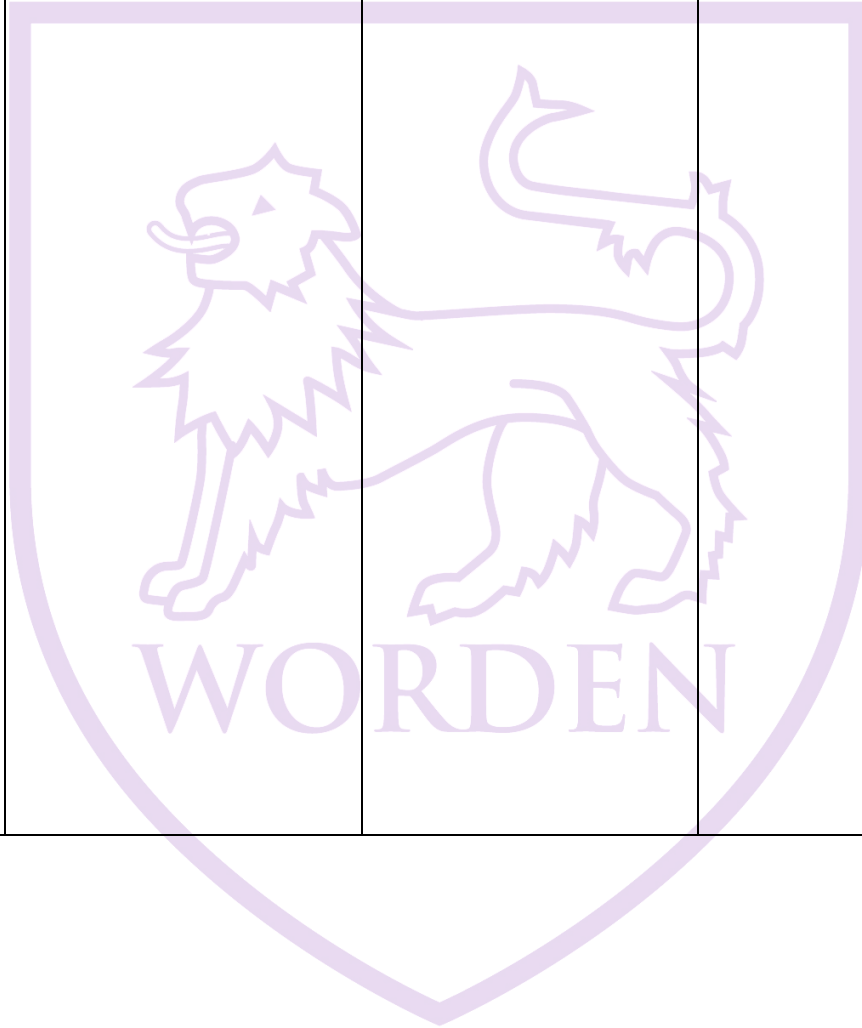
Subject: Science**Year: 8**

<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>Matter: Periodic table and Elements.</u> <ul style="list-style-type: none">• Differences between; atoms, elements and compounds• Principles underlying the Mendeleev periodic table and using it to make predictions• Properties of polymers, ceramics and composites	<u>Energy : Energy Costs and Energy Transfer.</u> <ul style="list-style-type: none">• Energy stores and Energy Transfers• Electricity – costs, usage, efficiency and getting electricity to the home• Energy transferred from foods and fuels• Elastic potential and potential energy	<u>Reactions: Chemical energy and types of reaction.</u> <ul style="list-style-type: none">• Exothermic and Endothermic reactions• Catalysts and Catalytic Converters• Exploring Combustion and Fuels• Thermal decomposition• Conservation of mass in physical and chemical changes	<u>Forces: Speed & Gravity</u> <ul style="list-style-type: none">• Quantitative relationship between average speed, distance and time• Relative Motion• Identification of contact and non-contact forces• Relationship between gravitational fields, mass and weight	<u>Ecosystems: Interdependence and plant reproduction.</u> <ul style="list-style-type: none">• Understanding how energy transfers through food webs• Toxins and the environment and uses of pesticides.• The Importance of insects and Ecological Balance.• Flowering plants – reproduction, fertilisation and seed dispersal	<u>Genes: Evolution and inheritance</u> <ul style="list-style-type: none">• Evolution by means of natural selection• Biodiversity and Extinction• Genetics and Inheritance

Ludus Admirandus

Electromagnets
: Voltage &
Resistance &
Current

- Describing the relationship between current, potential difference and resistance
- Comparing Series and Parallel circuits
- Static Charge
- Electric Fields



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