KS3	Autumn HT1	Autumn HT2	Spring HT1	Spring HT2	Summer HT1	Summer HT2
<u>Science</u>						
Year 8	Matter 2: Periodic table and Elements. Atoms and Elements Atoms and the periodic table The periodic table Metals and Non-metals Practical The Alkali metals The Halogens Nobel Gases Exploring Polymers Ceramics and composits [This topic will also include approximately 4 'Literacy in Science' Lessons] Energy 1: Energy Costs and Energy Transfer.	Electromagnets 1: Voltage & Resistance & Current Describing electric circuits Understanding energy in circuits Explaining resistance MMA 1 Describing series and parallel circuits Comparing series and parallel circuits MMA 2 Investigating static charge Explaining static charge Understanding electrostatic fields [This topic will also include approximately 4 'Literacy in Science' Lessons]	Electromagnets 1: Voltage & Resistance & Current Describing electric circuits Understanding energy in circuits Explaining resistance MMA 1 Describing series and parallel circuits Comparing series and parallel circuits MMA 2 Investigating static charge Explaining static charge Understanding electrostatic fields [This topic will also include approximately 4 'Literacy in Science' Lessons]	Forces 1 : Speed & Gravity Understanding speed Describing journeys with distance—time graphs Exploring journeys on distance—time graphs Investigating the motion of a car on a ramp MMA 1 Understanding relative motion Understanding forces Understanding gravitational fields Understanding mass and weight MMA 2Understanding gravity [This topic will also include approximately 3 'Literacy in Science' Lessons]	Forces 1 : Speed & Gravity Understanding speed Describing journeys with distance—time graphs Exploring journeys on distance—time graphs Investigating the motion of a car on a ramp MMA 1 Understanding relative motion Understanding forces Understanding gravitational fields Understanding mass and weight MMA 2Understanding gravity [This topic will also include approximately 3 'Literacy in Science' Lessons]	Genes 2: Evolution and inheritance Explaining natural selection Understanding the importance of biodiversity MMA 1 Explaining extinction Understanding the nature of genetic material Exploring the role of chromosomes MMA 2 Understanding variation Modelling inheritance [This topic will also include approximately 4 'Literacy in Science' Lessons]

Understanding energy **Reactions 2: Chemical Reactions 2: Chemical Ecosystems 1: Ecosystems 1:** transfers by fuels and energy and types of energy and types of Interdependence Interdependence and food reaction. reaction. and plant plant reproduction. MMA 1 Understanding Understanding reproduction. Understanding food Comparing rates of Understanding food exothermic reactions exothermic reactions webs energy transfers Comparing endothermic webs Understanding the Comparing Looking at the cost of and exothermic reactions endothermic and Understanding the effects of toxins in the energy use in the home MMA 1 exothermic reactions effects of toxins in environment Getting the electricity **Investigating** MMA 1 the environment MMA 1 endothermic reactions MMA 1 we need Investigating Pesticides MMA 2 Explaining the use of endothermic reactions Pesticides Exploring the catalysts importance of insects Using electricity Explaining the use of Exploring the **Exploring combustion** catalysts importance of Exploring ecological responsibly Energy stores and Exploring the use of fuels **Exploring combustion** insects balance Exploring the use of Exploring ecological **Exploring flowering** transfers MMA 2 Understanding thermal Exploring energy fuels balance plants **Exploring flowering Exploring fertilisation** MMA 2 transfers decomposition **Understanding** Explaining changes Understanding plants MMA 2 potential energy and [This topic will also thermal **Exploring fertilisation** Understanding how include approximately 4 decomposition MMA 2 seeds are dispersed kinetic energy Understanding elastic 'Literacy in Science' Explaining changes Understanding how Understanding how [This topic will also potential energy fruits disperse seeds Lessons seeds are dispersed [This topic will also include approximately **Understanding how** [This topic will also include approximately 4 'Literacy in Science' fruits disperse seeds include approximately 3 'Literacy in Science' Lessons1 [This topic will also 4 'Literacy in Science' Lessons include Lessons approximately 4 'Literacy in Science' Lessons]