

Year 7 Science Curriculum Map						
HalfTerm	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Big Themes	Properties of Particles	Cell Electricity and Magnetism	Forces Energy	Reproduction Human Body	Interdependence Photosynthesis	End of year Revision and assessment Universe
Knowledge and skills covered	<ul style="list-style-type: none"> States of matter and changing state Mixtures Condensation Chromatography Dissolving/Saturation Pressure Organisation of the periodic table Size of an atom Writing chemical formula pH Indicators Neutralisation <p>Skills: Making an indicator Using bunsen burners Safety in a science lab Writing a method</p>	<ul style="list-style-type: none"> microscopes Animal cell structure and function plant cell structure and function Differences between animal and plant cells tissues, organs, and organ systems effect of alcohol and smoking on the human body Magnets and magnetic fields insulators and conductors drawing circuits using scientific symbols Series circuits - current and voltage Parallel circuits- current and voltage. <p>Skills: Using a microscope Drawing and labelling scientific diagrams Scale</p>	<ul style="list-style-type: none"> forces resultant forces friction and motion water and air resistance weight and gravity calculate speed? energy transfers energy efficiency in appliances conduction and convection radiation <p>Skills Accurately drawing scientific diagrams Rearranging equations Interpreting graphs</p>	<ul style="list-style-type: none"> adolescence and puberty reproductive organs gametes and fertilisation sexually transmitted disease? uterus and pregnancy Periods and menstrual cycle IVF Skeleton and muscles plant organs and fertilisation <p>Skills Continuous and discontinuous variables Plotting bar graphs Evaluating methods</p>	<ul style="list-style-type: none"> Classification of organisms. Food chains, predators and prey. Pyramids and biomass and numbers Sampling techniques within an ecosystem Adaptation and natural selection Photosynthesis Factors affecting photosynthesis <p>Skills: Variables: controls, independent and dependent</p>	<ul style="list-style-type: none"> Origin of the universe. The solar system Life cycle of stars Seasons Phases of the moon Manmade and natural satellites Astronomy <p>Skills Scale Units Interpreting data Evaluating a model</p>
Knowledge organisers and more detailed topic resources can be found on all student Google Classrooms						



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