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CURRI5.6y>rounded backgro

over developing world around us. We are committed to giving public

Year	Knowledge (Topics / contexts) What pupils will know'.	Skills acquired What pupils will be able to do'.	Concepts developed What pupils will understand'.	Assessments How do we and the pupils know what has been learnt?
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			<p>7.9 Perform calculations, including rearranging equations, involving speed and gravity</p> <p>7.10 Examine the structure of the earth and understand the structure of the universe</p>
<p>Current and Voltage, Breathing and Digestion, Acids and Alkalis</p> <p>Reproduction and Photosynthesis</p> <p>Chemical Energy and Reactions, Energy transfer and costs</p> <p>Wave properties and affects and Interdependence.</p>	<p>Begin to design experiments with the independent and dependent variable in mind, including how to control some of the variables.</p> <p>Plot scatter graphs, and draw lines of best fit.</p>	<p>The importance of repeating and how to handle them.</p>	<p>Each KPI is assessed either through an end of topic assessment, multiple choice quiz or teacher input.</p> <p>8.1 Demonstrate science skills and follow the correct safety procedures</p> <p>8.2 Use scientific language appropriately</p> <p>8.3 Collect, present and analyse data</p> <p>8.4 Explain the interactions of acids and alkalis, metals and non-metals.</p> <p>8.5 Understand electricity through current and voltage</p> <p>8.6 Discuss the effects of interdependence and recall structures involved in plant reproduction</p>

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				8.7 Apply ideas about energy transfer and calculate household costs 8.8 Examine the structures in breathing and digestion and analyse their adaptations 8.9 Establish wave effects and properties 8.10 Model chemical reactions using ideas about energy 8.11 Compare and contrast respiration and photosynthesis
9	Contact forces and Pressure, Evolution and Inheritance, Heating, Cooling and Work.  Wave Properties and Effects, Magnets and Electromagnetism, Earth Structure and Climate and Earth Resources, .	Confidently be able to choose and draw appropriate graphs, including a correct scale, and correct line of best fit. Be able to confidently use Chemical symbols. Begin to convert between units. Construct tables with multiple data sets	The importance and use of preliminary experiments. How scientific thinking has developed over time. How scientific claims and evaluated and the concept of peer review.	Each KPI is assessed either through an end of topic assessment, multiple choice quiz or teacher input.  9.1 Demonstrate science skills and follow the correct safety procedures 9.2 Use scientific language appropriately 9.3 Collect present and analysed data 9.4 Evaluate the role of energy in heating, cooling and work. 9.5 Establish the genetics of inheritance and discuss the evolution of species

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9.6 Resolve contact forces and pressure in different systems  
 9.7 Recall the fundamentals of magnetism and the uses of electromagnetism  
 9.8 Appraise the evidence surrounding climate and the sustainability of earth resources.

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		Pupils will be able to develop key experimental skills both using special equipment and evaluating its uses.		Pupils will also complete the CP practical assessment throughout the course to assess their practical skills
	Year 1+2 Chemistry 1+2 Year 1+2	Using and evaluation Scientific models create and design experiments to create test and evaluate key Chemistry concepts.  Pupils will be able to develop key experimental skills both using special equipment and evaluating its uses.	Pupils will see how our fundamental knowledge of Chemistry has evolved over time. They will also understand key chemical concepts of Physics organic and inorganic chemistry.	Pupils will complete key end topic tests to assess the knowledge and understanding the key concepts.  Pupils will also complete the CP practical assessment throughout the course to assess their practical skills

