Wordsworth Science Curriculum

KS2 Materials and their Properties and states of matter			
Year 3 Spring 2	**Year 4 Spring 1 and 2**	**Year 5 Spring 1 and 2**	**Year 6**
Skills			
• **Set up a simple practical enquiry** to answer a given scientific questions	• **Ask relevant scientific questions** • **Set up a simple practical enquiry** (drying cloths, insulating materials)	• **Plan scientific enquiries** to answer questions including recognising and controlling variables	
• **Make systematic and careful observations** and take measurements	• **Take accurate measurements** (temperature)	• **Take accurate measurements**, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate (use these to explain a degree of trust in results)	
• **Record** findings using simple scientific language, drawings, labelled diagrams and tables	• **Gather, record, present data** in a variety of ways (bar charts, tables, line graphs)	• **Record data** using classification keys, tables, bar and line graphs (e.g. rate of evaporation or dissolving)	
Use results to draw **simple conclusions and present findings** in a written report	• Use results to draw **simple conclusions** and **raise further questions**	• Use results to **make predictions** about future enquiries • **Report and present findings**	
Knowledge			
• **Compare** and group together different kinds of rocks on the basis of their appearance and simple physical properties partially outsides • **Describe** in simple terms how fossils are formed when things that have lived are trapped within rock – Steve has fossils • **Recognise** that soils are made from rocks and organic matter.	• Be able to **identify** solids, liquids or gases • **Know** that some materials change state when they are heated or cooled, • **Know** the part played by evaporation and condensation in the water cycle • **Know** that temperature is associated to the rate of evaporation.	• **Compare** and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets potentially could test materials outside • **Know** that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution • **Know** how to separate mixtures using filtering, sieving and evaporating • **Explain** why everyday materials have particular uses	

| | | could discuss things outside as a part of this.

• **Know** that dissolving, mixing and changes of state are reversible changes
• **Know** that some changes are irreversible | |