

Year 7 Science – Outline Programme of Study

	Term 1	For the rest of the	e year all Year 7s will s	udy the following topic, each group will study the topics in a different order.			Term 6
s/	Scientific Bringiples	Living Things in	Reactive	Particles	Forces	The Solar System	Cells
Big idea	Findpies		Chemistry				
	An	The variation and	In a chemical	The particle model	Measuring forces,		Structure and
	introduction	classification of	reaction, new	of matter.	bending and	Seasons and day	function of the
	to the	living things.	materials are	The use of the	stretching,	lengths, features	component parts of
	concepts of	Including limited	formed and are	particle model of	Floating and	of our moon,	plant and animal
	science at	to the five	normally	matter to describe	sinking, Friction,	phases of the	cells- limited to cell
Key Knowledge	Faringdon	kingdoms and the	irreversible.	and explain the	density, speed	moon, Eclipses,	wall, cell
	community	five classes of	Physical changes	properties of	and stopping	the relationship	membrane,
	college	vertebrates. How	are often	solids, liquids and	distance, graph	between gravity,	cytoplasm, nucleus,
	including	organisms interact	reversible, for	gases and explain	drawing and air	mass and weight,	vacuole and
	experimental	within a habitat	example, changes	diffusion and	resistance	light-years, the	chloroplast.
	procedures	including	of state.	solubility.		scale of the	Introduction to the
	and health	predator/prey	The reactions of	The law of		universe	use of microscopes.
	and safety.	relationships,	acids with metals,	conservation of			Cell differentiation
		feeding	carbonates, alkalis	mass applied to			and specialism –
		relationships (food	and the associated	solutions.			including sperm,
		chains and webs)	general word	The difference			muscle, nerve, egg,
		and how we can	equations.	between pure			root hair and
		protect the	Combustion and	substances and			palisade cell.
		environment	the fire triangle.	mixtures. Using			Cell division -
		these organisms		chromatography			mitosis
		live in.		and distillation to			
				senarate mixtures			

Further information and reading list					
BBCbitesize					
• <u>Educake</u>					
<u>Focuselearning</u>					
<u>CGP revision guide</u>					
<u>Richard Dawkins book the magic of reality</u>					
<u>Tim Peak book</u>					
<u>https://www.docbrown.info/</u>					
<u>What if? Randal Munroe</u>					
Ways to support and extend student learning in this subject					
<u>Kurzgesagt youtube</u>					
<u>Veritasium youtube</u>					
Ask your child what they are studying in science					
Cook a meal					
Go to a science museum					
<u>https://scienceoxford.com/</u>					
Gardening					