

Bishop Stopford's School Curriculum Map Year 7

Science

	controlion intent. To hispite every scudent to engage in lessons and t	vant to explore the curriculum beyond the classroom				
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	How Science Works	Forces 1	Waves 1	Reactions 1	Organisms 1 Ecosystems 1	Genes 1
	Why? Pupils learn about how scientists work to develop theories, present data and the	Electromagnets (Electricity) 1	Matter 1	Earth 1		
	ways scientists communicate. Pupils are given a wide range of theoretical and practical	Energy 1			why? This topic underpins the idea organisms are made fromcells we are learning this so	Why? Ithis topic builds upon work done in both PSHLE and KS2 on reproduction to look
	learning opportunities. We believe science should generate awe and wonder and		wny? Inese topics underpin all of the sciences; matter is made from particles and	why? Reactions topic includes Acids and alkalis, which is a fundamental	that we can explain why plants are so important for the survival of all life on Earth. Students	at now numans are different from each other and the changes that take place during
	stimulate a desire to explore the world around us in exciting and creative ways. As well as	why? Forces topic is essential in Physics as it neips pupils to explain now the same	organisms are made from	Chemistry concept. This will also allow them to deal with situations like this in real	then go on to look at noworganisms depend on each other in	puberty to allow us to reproduce,
	increasing subject knowledge, pupils in Year 7 develop their confidence, teamwork and	forces that hold the	cells. The pure and impure topic starts to build on	life e.g. bee stings.	an ecosystem.	
	problem solving skills by designing and carrying out investigations.	universe together also hold atoms together and	practical based skills which are essential for all	students are introduced to the periodic		
		heip us to move around.	practicals e.g. filteration as well as the practical	table early in year 7 so that they have practise in		
×		Electricity is a large topic in and brings	equipment names and nearth and safety	identifying elements and using the periodic table as a tool to support learning.		
8		further application of science to everyday life and	precautions.	students will develop their understanding of reactions to		
e,		possible career locals. Scoperits need to be able to	down accors key state 2. In Year 7 students can describe how sound and light	functione word and symbol equations which is a functionental skill		
듣		devices to be deciment for the future	transfer information for right and round	Turnaumentan akin.		
⊃		Bunile are learning about energy to they can evolution	contract internation for agent and aband.			
		rimple energy transfers which builds from				
		knowledge from KS2 and into equations for KS4				
	* Scientific Enquiry - making and testing a hypothesis , devising simple methods	* Use of simple formula * Drawing	* Draw ray diagrams to show reflection and refraction * Draw aprticle	*Make and record accurate observations of chemical reactions	* Set up and use a microscope to observe cells *Identify key	* Describe examples of continuos & discontinous variation * Plot an appropriate
	* Making simple observations * Using core	and interpreting graphs of distance/time * Comparing energy resources	models * Follow an experimental	*Follow an experimental method *Write word	structures in cells from microscoe images	graph to show types of variation
	laboratory apparatus * Making measurements	* Describing simple relationships *Identify	method * Record measurements from arange of	equations *Scientific enquiry -		
	* Recording observations * Working as	circuit symbols and draw a simple circuit diagram	apparatus into a basic table of results	how observations of space and our understanding of space have changed over		
	a team * Working safely in a	* Take readings from analogue and digital apparatus and record in a simple table	*Plot graphs and draw basic conclusions from them	time		
	science laboratory					
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+	all groups beein with safety, lab equipment and some simple experimental methods to	Units covers aspects forces which include forces at a distance or well or balanced	Units covers aspects of Sound waves wave speed loudness and amplitude	Units covers aspects Chemical reactions, acids and alkalis, indicators and old acid	Units cover aspects levels of organisation, the skeleton, joints and murcher, observing cells	Units cover aspects of Variation, Continuous/Discontinuous variation, adaption to
	develop the excitement for science, but also safety awareness.	and unbalanced	frequency and pitch, the ear and hearing, light, reflection, refraction, the eve and	strength, neutralisation, making salts, elements, chemical reactions, metals and	plant and animal cells, specialised cells, movement of substances, Unicellular oreanisms	change, adolescence, reproductive systems, fertilisation and implantation, development
	Enquiry process:	forces. Speed, distance- time graphs. Gravity,	vision. colour.	acids/ oxygen/ water, displacement reactions.	How to interpret food chains and food webs.	of a fetus, the menstrual cycle.
	1 Asking scientific questions	Unit covers aspects of Current, Resistance, Potential Difference, Static electricity,	Units covers aspects of the particle model, states of matter, melting and freezing,	Units covers aspects Structure of the Earth. Types of rocks. The rock cycle.	Plant reproduction.	
ě	2 Planning investigations	Series and Parallel circuits.	diffusion, gas pressure, substances, solutions, solubility, separation techniques.	Ceramics, The night sky, Solar System, The Earth, The Moon and changing ideas.	Units cover aspects of food chains and webs, disruption to food chains and webs,	
옷	3 Recording data	Unit covers aspects of Food and fuels, Energy Resources, Energy and Power, Energy			ecosystems, competition, flowers and pollination, fertilsationand germination, seed	
é	4 Analysing patterns	adds up, Energy Dissipation.			dispersal.	
ž	5 Evaluating data					
or e	12 Review theories 1					
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	Parallan test during first works at DFF to serve					
~	Easemption MM tarke					
ac	End of topic test	Formative HW tasks.				
ti i		Lasks.	Formative HW tasks.	Formative HW tasks.	Formative Hw cases.	Formative Hw tasks.
Fe		Once per two weeks Beer Arrensment (BA) and Self Arrensment (SA) using green	tasks.	tasks.	End of tools test	Lasks.
es Se		nee Next steer to be acted upon and monitored	End of topic test.	End of topic test.	Once per two weeks Rees Accessment (RA) and Self Accessment (SA) using green pen. Next	Once per two weeks Beer Arrensment (BA) and Self Arrensment (SA) using green pen
En 1		DC1 - rummative arrangement brand on all content delivered up until this point in	Once per two weeks Peer Assessment (PA) and Self Assessment (SA) using green	Once per two weeks Peer Assessment (PA) and Self Assessment (SA) using green	cher to be acted upon and monitored	Next steps to be acted upon and monitored
E		the curriculum	pen. Next steps to be acted upon and monitored.	pen. Next steps to be acted upon and monitored.	Summative assessment based on all curriculum delivered in Year 7	DF2 - Summative assessment that covers all topics and skills covered this year
4es						
Link to prior lear ning	Learning H - Hondright and gest and described and gest and described an					
Outside learning/trips	Pupils complete an experienteal write up on a specific practical	Pupils look at the energy break of different types of foods.	Pupils research how atMetes are caught cheating.	Pupils look at the range of substances which are acids and alkall in the home.	Small group opportunities to work beyond the classroom based on current topic. Seen club.	Small group opportunities to work beyond the classroom based on current topic. Stem club.