

Bishop Stopford's School

Curriculum Map Year 10 Science AQA

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Infection and response This unit develops ideas from Key Stage 3 and explores	Bioenergetics This unit develops ideas from Key Stage 3 and explores the	Homeostasis and response This unit develops ideas from Key stage 3 and explores concepts	Homeostasis and response This unit develops ideas from Key Stage 3 and explores	Inheritance, variation and evolution This unit develops ideas from Key Stage 3 about variation	Inheritance, variation and evolution This unit develops ideas from Key Stage 3 about variation and
	comunicable and non-communicable diseases, the role of the	reactions of Photosynthesis and respiration in detail including	relating to Homeostasis such as Osmoregulation, diabetes and	concepts relating to Homeostasis such as Osmoregulation,	and explores concepts about DNA, inheritance,	explores concepts about DNA, inheritance, reproduction and
	immune systems, as well as diseases in plants.	how they are proved through experimentation	temperature control.	diabetes and temperature control.	reproduction and variation.	variation.
	Quantitative Chemistry	Quantitative Chemistry	Chemical Changes	Energy Changes	Energy Changes	Energy Changes
	This unit develops ideas from Key Stage 3 and explores	This unit develops ideas from Key Stage 3 and explores	This unit develops ideas from Key Stage 3 and explores ideas	This unit develops ideas from Key Stage 3 and explores	This unit develops ideas from Key Stage 3 and explores	This unit develops ideas from Key Stage 3 and explores ideas
	calculations in Chemistry.	calculations in Chemistry.	about reactivity of metals and extracting metals, as well as	ideas about energy changes in reactions, such as	ideas about energy changes in reactions, such as	about energy changes in reactions, such as endothermic and
	Electricity	Particle Model of Matter	introducing the concept of electrolysis.	endothermic and exothermic reactions, as well as bond	endothermic and exothermic reactions, as well as bond	exothermic reactions, as well as bond energies.
	This unit develops ideas from Key Stage 3and explores Electric	This unit develops ideas from Chemistry and Physics at Key	Atomic Structure	energies.	energies. Forces	Forces
~	circuits and electricity in the home with an emphasis on the calcuations used to quantify energy transfers,	Stage 3 and explores concepts about the states of matter, density and latent heat and internal energy.	This unit develops ideas from Key Stage 3 about atoms and explores ideas about Radioactivity.	Ideas about changes in energy during a reaction and bond energy calculations.	This unit develops ideas from Key Stage 3 around	This unit develops ideas from Key Stage 3 around balanced and unbalanced forces and explores ideas in terms of motion and
ş	All units equip students for the modern world, devloping their	All units equip students for the modern world, devloping their	All units equip students for the modern world, devloping their	Atomic Structure	balanced adn unbalanced forces and explores ideas in	Hooke's Law.
£	knowledge and understanding.	knowledge and understanding.	knowledge and understanding.	This unit develops ideas from Key Stage 3 and explores	terms of motion and Hooke's Law.	All units equip students for the modern world, devloping their
ŧ				ideas about Radioactivity.	All units equip students for the modern world, devloping	knowledge and understanding.
5				All units equip students for the modern world, devloping	their knowledge and understanding.	
				their knowledge and understanding		
	• Enquiry	• Enquiry	• Enquiry	• Enquiry	• Enquiry	• Enquiry
	Communication (literacy)	Communication (literacy)	Communication (literacy)	Communication (literacy)	Communication (literacy)	Communication (literacy)
	Develop extended writing	Develop extended writing	Develop extended writing	Develop extended writing	Develop extended writing	Develop extended writing
	Critical thinking	Critical thinking	Critical thinking	Critcal thinking	Critical thinking	Critical thinking
	Analysis Critical evaluation	Analysis Critical evaluation	Analysis Critical evaluation	Analysis	Analysis Critical evaluation	Analysis Critical evaluation
Skills	Critical evaluation Make judgements	Critical evaluation Make judgements	Critical evaluation Make judgements	Critical evaluation Make judgements	Critical evaluation Make judgements	Critical evaluation Make judgements
	Make judgements Make arguments	Make judgements Make arguments	Make judgements Make arguments	Make judgements Make arguments	Make judgements Make arguments	Make judgements Make arguments
Ore	Draw informed decisions	Draw informed decisions	Draw informed decisions	Draw informed decisions	Draw informed decisions	Draw informed decisions
Ö	Synthesis of information	Synthesis of information	Synthesis of information	Synthesis of information	Synthesis of information	Synthesis of information
	Inference	Inference	Inference	Inference	Inference	Inference
	Numeracy	Numeracy	Numeracy	Numeracy	Numeracy	Numeracy
	Infection and response	Bioenergetics	Homeostasis and response	Homeostasis and response	Inheritance, variation and evolution	Inheritance, variation and evolution
	Microbes, how the body responds to infections	Photosynthesis and respiration	Osmoregulation, diabetes and temperature control.	Osmoregulation, diabetes and temperature control.	Inheritance of characteristics and DNA Reproduction.	Inheritance of characteristics and DNA Reproduction.
	Also testing systems for drugs.	Quantitative Chemistry	Chemical Changes	Energy Changes	Energy Changes	Energy Changes
	Quantitative Chemistry	Chemical calculations, including RFM and reacting masses.	Ideas about reactivity of metals and extracting metals.	Ideas about changes in energy during a reaction and bond	Ideas about changes in energy during a reaction and	Ideas about changes in energy during a reaction and bond
	Chemical calculations, including RFM and reacting masses.	Particle Model of Matter	Reactions of metals with acids. Atomic Structure	energy calculations.	bond energy calculations. Forces	energy calculations. Forces
	How to calculate the flow of charge	Ideas about states of matter, density and latent heat and internal energy.	How an unstable nucleus changes when it	How an unstable nucleus changes when it		The difference between a vector and a scalar and how to
	How to work out the resistance and potential	internal energy.	becomes stable and why the radiation it gives	becomes stable and why the radiation it gives out is	represent a vector	represent a vector
	difference in an electric circuit		out is harmful	harmful	How to find the resultant of two forces and to resolve a	How to find the resultant of two forces and to resolve a force
edge	How mains electricity differs from the		What nuclear fission and fusion are	What nuclear fission and fusion are	force into perpendicular	into perpendicular
eq	electricity supplied by batteries				components.	components.
Know	How to calculate the power of an electrical appliance				The difference between speed and velocity and what is meant by acceleration.	The difference between speed and velocity and what is meant by acceleration.
7	арриансе				What is meant by terminal velocity and why objects fall	What is meant by terminal velocity and why objects fall through
o.e					through water at a constant velocity.	water at a constant velocity.
0					What is meant by the conservation of	What is meant by the conservation of
					momentum and when we can sue the rule.	momentum and when we can sue the rule.
					How to measure the stiffness of a spring and what is	How to measure the stiffness of a spring and what is meant by
					meant by elasticity How to calculate the weight on an object	elasticity How to calculate the weight on an object
					from its mass and the gravitational field	from its mass and the gravitational field
					strength of where it is.	strength of where it is.
*	Formative HW tasks.	Formative HW tasks.	Formative HW tasks.	Formative HW tasks.	Formative HW tasks.	Formative HW tasks.
adpac	tasks.	tasks.	tasks.	tasks.	tasks.	tasks.
Feed	End of topic test. Once per two weeks Peer Assessment (PA) and Self	End of topic test. Once per two weeks Peer Assessment (PA) and Self Assessment	End of topic test. Once per two weeks Peer Assessment (PA) and Self Assessment	End of topic test. Once per two weeks Peer Assessment (PA) and Self	End of topic test. Once per two weeks Peer Assessment (PA) and Self	End of topic test. Once per two weeks Peer Assessment (PA) and Self Assessment
-⊗ 2°	Once per two weeks Peer Assessment (PA) and Self Assessment (SA) using green pen. Next steps to be acted	Once per two weeks Peer Assessment (PA) and Self Assessment (SA) using green pen. Next steps to be acted upon and	(SA) using green pen. Next steps to be acted upon and	Once per two weeks Peer Assessment (PA) and Self Assessment (SA) using green pen. Next steps to be acted	Once per two weeks Peer Assessment (PA) and Self Assessment (SA) using green pen. Next steps to be acted	(SA) using green pen. Next steps to be acted upon and
Ĕ	upon and monitored.	monitored.	monitored. DC1 - Summative	upon and monitored.	upon and monitored.	monitored. DC2 - Summative assessment
ä			assessment of GCSE work covered up to this point		The second second	of Paper 1 content
Asser						
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200						
in					What is variation, types of variation, specialised cells.	
learr	Cells, Keeping healthy, Plant Structures Atomic	Equations for photosynthesis and respiration from Key Stage 3.	Specialised cells, cell structures, diet and keeping healthy.	Specialised cells, cell structures, diet and keeping healthy	fossils and evolution Word and chemical equations.	What is variation, types of variation, specialised cells, fossils and
	structure, formulae, the periodic table	Tissues in plants and humans.	Word and chemical equations, formulae, observing and	Word and chemical equations, formulae, observing and	formulae, observing and describing chemical reactions,	evolution Word and chemical equations, formulae, observing
prior	Series & Parallel Circuits, resistance	Atomic structure, formulae, the periodic table States of matter, particle diagrams.	describing chemical reactions, acids and alkalis. Atomic structure	describing chemical reactions, types of bonding , atomic structure	types of bonding Balanced &	and describing chemical reactions, types of bonding Balanced & unbalanced forces, measuring force
2		parucie ulagrams.	Atomic structure	structure	unbalanced forces, measuring force	Summer of unbalanced forces, measuring force
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ries						
ning/tı						Corall aroun apportunities to work bound the al-
Æ	Research tecniques applied beyond the classroom.	Research tecniques applied beyond the classroom.		Small group opportunities to work beyond the classroom	Small group opportunities to work beyond the classroom	Small group opportunities to work beyond the classroom based on current topic.
eau			IT based opportunities to widen broader knowledge.	based on current topic.	based on current topic	on current topic.
e e					Access on our one sugar	
Outside						
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