



The King's School Long Term Plan 2019-2020 Subject: Science

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
7	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics
	Cells & Transport	Cells & Transport	Variation & Human	Variation & Human	Ecology &	Ecology &
	Elements, Compounds &	Elements, Compounds &	Reproduction	Reproduction	Interdependence	Interdependence
	Mixtures	Mixtures	Reactions: Acids & Alkalis	Reactions: Metals & Non-	Energy Transfers	
	Motion	Motion	Earth & The Universe	Metals		Investigations
				Sound & Light		
	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:
			Atomic Structure from	Acids & Alkalis from Term	Cell Structure from Term	Drawing on investigative
			Term 1	3	1	skills from across the year
				Speed from Term 1		
	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:
	CELLS and ELEMENTS and	CELLS and MIXTURES	REACTIONS and EARTH &	VARIATION and	ECOLOGY and ENERGY	ASSESSMENT 2
	MOTION	ASSESSMENT 1	THE UNIVERSE and	REACTIONS and SOUND &		
			VARIATION	LIGHT		
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
	Science Club	Science club	Science club	Science club	Science club	Science club
			Trip to Ferrybridge power	Science Week	National Physics Day	Science fair
			station	ZooLab		
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle
	and educake (online	and educake (online	and educake (online	and educake (online	and educake (online	and educake (online
	platforms)	platforms)	platforms)	platforms)	platforms)	platforms)
_	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics
8	Breathing	Digestion	Respiration	Photosynthesis	Genes & Inheritance	Genes & Inheritance
)	The Periodic Table	The Periodic Table	Reactions and Chemical	Earth's Climate &	Heating and Cooling	
	Forces	Forces	Energy	Resources		Investigations
			Electric Circuits	Electromagnets		
				Waves		
	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:
	Cell Structure from Year 7		'Energy in Food' covered	Leaf Structure from Year	Cell Structure from Year 7	Drawing on investigative
			after 'Digestion' in Term 2	7	Variation from Year 7	skills from across the year





	Particle Model from Year 7 Elements, Compounds & Mixtures form Year 7 Scalar & vector from Year 7	Link between Breathing & Digestion with 'Lifestyle Factors'	Cell Structure from Year 7	Magnets from Year 7 Sound & Light from Year 7	Link between Waves and heating & Cooling with 'Infrared'	
	Assessments: BREATHING and PERIODIC TABLE and FORCES	Assessments: DIGESTION ASSESSMENT 1	Assessments: ELECTRICITY and REACTIONS and RESPIRATION	Assessments: PHOTOSYNTHESIS and EARTH'S CLIMATE and ELECTROMAGNETS / WAVES	Assessments: INHERITANCE and HEATING & COOLING	Assessments: ASSESSMENT 2
	Enrichment: Science Club	Enrichment: Science club	Enrichment: Science club	Enrichment: Science club Science Week ZooLab	Enrichment: Science club National Physics Day	Enrichment: Science club Science fair
	Activities on Kerboodle and educake (online platforms) Curriculum Topics	Activities on Kerboodle and educake (online platforms) Curriculum Topics	Homework: Activities on Kerboodle and educake (online platforms) Curriculum Topics	Homework: Activities on Kerboodle and educake (online platforms) Curriculum Topics	Activities on Kerboodle and educake (online platforms) Curriculum Topics	Activities on Kerboodle and educake (online platforms) Curriculum Topics
9	Cell Biology Atomic Structure Energy 1	Cell Biology Atomic Structure	Organisation Atomic Structure Bonding Particle Model	Organisation Bonding Energy 2	Infection & Response Chemical Changes Electricity	Infection & Response Chemical Changes Electricity
	Sequencing: Cell Structure from KS3	Sequencing: Atomic Structure aligned in both Chemistry & Physics	Sequencing: States of Matter from Chemistry Term 1 Human Digestive System from KS3	Sequencing: Plant Structure from KS3	Sequencing: Bacteria and Viruses from Term 1 Reactivity of Metals & Acids from Term 2	Sequencing:
	Assessments: CELLS and ATOMIC STRUCTURE and ENERGY	Assessments: ASSESSMENT 1	Assessments: ORGANISATION and BONDING and PARTICLE MODEL	Assessments: ORGANISATION and BONDING and PARTICLE MODEL	Assessments: INFECTION & RESPONSE and CHEMICAL CHANGES and ENERGY	Assessments: ASSESSMENT 2





	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
	Science Club	Science club	Science club	Science club	Science club	Science club
			Science Live	Science Week	National Physics Day	
				Science careers focus		
				ZooLab		
				Big Bang Fair		
				RSB Biology Challenge		
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle
	and educake (online	and educake (online	and educake (online	and educake (online	and educake (online	and educake (online
	platforms)	platforms)	platforms)	platforms)	platforms)	platforms)
40	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics	Curriculum Topics
10	Bioenergetics	Bioenergetics	Homeostasis	Ecology	Ecology	Ecology
	Chemical Changes	Homeostasis	Periodic table	Energy changes	Quantitative chemistry	Atmospheric chemistry
	Electricity	Chemical changes	Forces 1	Quantitative chemistry	Waves	Forces 2
		Electricity		Forces 1		
		Chemical analysis		Waves		
	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:
	Plant Structure from KS3	Specialised Cells from	IVF from KS3	Levels of Organisation	Distillation from KS3	
	and Year 9	Year 9	Atomic structure from	from Year 9	Waves from KS3	
	Cell Structure from Year 9		Year 9	Photosynthesis and		
				Respiration from Term 1		
				& 2		
	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:
		Paper 1 Assessments in				Paper 1 Assessments in
		Biology, Chemistry and				Biology, Chemistry and
		Physics				Physics
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
			Science Live Trip	Science week		
				Science careers focus		
				RSB Biology Challenge		
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle	Activities on Kerboodle
	and educake (online	and educake (online	and educake (online	and educake (online	and educake (online	and educake (online
	platforms)	platforms)	platforms)	platforms)	platforms)	platforms)





4.4	Curriculum Topics	Curriculum Topics				
	REVISIT: PAPER 2 TOPICS	REVISIT: PAPER 1 TOPICS	REVISIT: PAPER 2 TOPICS	REVISIT: PAPER 1 TOPICS	REVISIT: PAPER 1 and 2	
					TOPICS	
	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:	Sequencing:
	Paper 1 and Paper 2 are					
	both given dedicated					
	curriculum time: Paper 1					
	revisited in lesson, Paper					
	2 revisited through					
	Homework	Homework	Homework	Homework	Homework	
	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:
	Paper 1 Assessments in	Paper 2 Assessments in		Paper 2 Assessments in		
	Biology, Chemistry and	Biology, Chemistry and		Biology, Chemistry and		
	Physics	Physics		Physics		
	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:	Enrichment:
	Science achieve					
	Homework:	Homework:	Homework:	Homework:	Homework:	Homework:
	Activities on Seneca and	Activities on Seneca and				
	educake (online	educake (online				