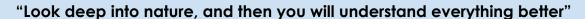






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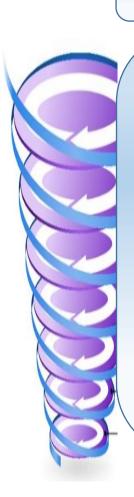
Albert Einstein

The intent of the science department is to convey to students that science underpins everything.

At The King's, we study:

- **Physics** to be able to understand the fundamental principles that govern all Energy and matter in the Universe. Physics gives us tools to understand nature from the scale of a sub-a-tomic particles up to the inter-galactic scale of the universe;
- **Chemistry** to be able to understand the nature of substances: how they are composed, their behaviors, and their physical and chemical properties. Chemistry allows us to identify unknown substances, monitor concentrations and synthesize new chemicals. Above all, chemistry is about finding solutions to the problems that concern us and our surroundings;
- **Biology** to be able to understand life and thereby understand ourselves. Biology allows us an understanding od the amazing complexity of many life processes and mechanisms. Biology encourages us to seek out reasons for strange, surprising and sometimes usual observations.

Science provides some incredibly challenging topics helping to gauge an awareness of topical issues and their impact on the climate, earth as well as human growth.





Curriculum plan: BTEC Science



	Please clicl	k on the icons to acce	ess our online portal who	ere vou can learn more	about each topic					
	Half term points									
12	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2				
	Unit 1: Principles and Applications of Science		Unit 2: Practical Scientific Procedures and Techniques			Unit 1: Princip <mark>les and</mark> Applications o <mark>f Science</mark>				
	 Learning to include: A Periodicity and properties of elements B Structure and functions of cells and tissues C Waves in communication 		 Learning to include: A Undertake titration and colorimetry to determine the concentration of solutions B Undertake calorimetry to study cooling curves C Undertake chromatographic techniques to identify components in mixtures D Review personal development of scientific skills for laboratory work. 			(Resit opportunity)				
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Curriculum plan: BTEC Science



	Please clid	k on the icons to acces	ss our online portal whe	ere you can learn more	about each topic					
	Half term points									
	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMME <mark>R 2</mark>				
	Unit 3: Science Investigation Skills		Unit 8: Physiology of Human Body Systems			Unit 3: Sci <mark>ence</mark> Investigatio <mark>n Skills</mark>				
	 Learning to include: A Planning a scientific investigation B Data collection, processing and analysis/interpretation C Drawing conclusions and evaluation D Enzymes in action 		 Learning to include: A Understand the impact of disorders of the musculoskeletal system and their associated corrective treatments 			(Resit opportun <mark>ity)</mark>				
13			B Understand the lymphatic system C Explore the phy corrective treatm							
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