

Feedback form: Science

What are we currently learning in lessons?	
<p>Thus far this academic year, Year 8 have covered topics on Earth and Space, Digestion, and Combustion.</p> <p>We are currently studying the topic of Fluids, wherein which students will build on their knowledge of solids, liquids and gases to now learn in more detail about what happens to particle arrangement and temperature during changes of state, how to calculate the density of a material, how liquids exert pressure, the reason for an object either floating or sinking, and how to reduce drag on moving objects.</p> <p>Knowledge and skills in these topics will be developed by a mixture of theoretical and practical activities in lessons.</p> <p>Over the course of this academic year, students will additionally learn the following topics:</p> <ul style="list-style-type: none"> • Biology: Breathing and respiration, Plant reproduction, and Photosynthesis • Chemistry: The Periodic Table, and Metals and their uses • Physics: Energy transfers and Light <p>The key vocabulary for each topic is included in the knowledge organiser for the topic, and it is essential that this important knowledge is committed to students' memories.</p>	
Areas of Excellence	
Heart	Mind
<p>Lesson are conducted in a manner which upholds and promotes our HEART values, which are firmly rooted in our faith ethos.</p> <p>We develop our students' spiritual, moral, social and cultural knowledge by giving them many clear examples of how science relates to our ethos and is applied in everyday life.</p> <p>In science we view the observable world around us, asking questions about to how different phenomena occur. We remind students to look for signs of their Creator while learning about the physical laws of the universe, the properties of materials and how life processes work.</p> <p>We ensure students know about how scientific knowledge has been built over time, by the collaborative work of scientists from many different civilisations and periods in history.</p>	<p>Students' minds are developed by building up a strong core of scientific knowledge across biology, chemistry and physics over five years.</p> <p>Everything your child will learn in Year 8 builds upon what she already knows, and serves as a foundation for all the knowledge and skills required at GCSE level.</p> <p>In science lessons we focus on literacy, numeracy, logical thinking and oracy. These are all whole-school aims and working to develop these skills in our students helps them both in school and in life beyond school.</p> <p>Students must learn their core knowledge as it is taught in lessons, and be able to apply it to new and practical situations – both in school and in life outside of school.</p>

Lessons in science are always taught in accordance with our faith, including aspects of RSE that we cover in biology.	We ensure lessons are linked strongly to the school's overall provision of careers education, and sparks students' intellectual curiosity so they are inspired to apply their scientific knowledge to everyday life, or study science beyond GCSE.
Areas of Development	
Heart	Mind
<p>Your child may develop further by:</p> <ul style="list-style-type: none"> Ensuring her attitude to learning is always at its best, paying close attention to knowledge and guidance provided by her teacher. As your child's science knowledge broadens and deepens, to apply this to the science she may read, watch or hear about in everyday life. Linking her scientific knowledge to our faith, as her knowledge of both increases. 	<p>Your child may develop further by:</p> <ul style="list-style-type: none"> Ensuring she is keeping up to date with her learning of key knowledge, skills and vocabulary as directed by her teacher, by using her knowledge organiser, notes from her class work, and websites as shown below. Ensuring she is responding to teachers' feedback with respect to accuracy and correct detail. Keeping up to date with current scientific developments, by reading the news.
How can you support your child at home?	
<p>Please ensure your child has the space and time to complete their homework on time.</p> <p>Excellent ways your child could be helped in science include:</p> <ul style="list-style-type: none"> Using the knowledge organiser given to them by the school, for pre-reading, practice and revision Reading up on topics we are learning using BBC Bitesize KS3 Science - BBC Bitesize Using the CGP Key Stage 3 Revision Guide to revise key concepts <p>For stretch and challenge, it is really important to be reading up on science in the news. The easiest way to do this is to click on the 'Science' tab on BBC News online.</p>	