

KS3 COURSE OPTIONS

Course Title	KS3 Science – Year 7
Course Description	<p>KS3 Science at Guilsborough is taught in termly topics that merge Biology, Chemistry and Physics.</p> <p>The course is designed and written by our teachers to address the needs of Guilsborough students and with a direct aim to make science interesting for all students.</p> <p>We have embedded lessons that encourage students to think independently, investigating scientific phenomena, using electronic devices, textbooks and practical's. This approaches allows students to ask their own questions, thereby stimulating curiosity in the subject</p>
Course Content (Term 1,2,3 etc.)	<p><u>Term 1</u> <u>Becoming a Scientist</u> During this topic students carry out practical investigations with an aim to increase confidence with newly introduced laboratory equipment and develop their 'working scientifically' skills Students will think about what variables must be changed, measured or controlled, what equipment to use, how to present their data and how to analyse data. Students will then go onto to make further progress in these practical skills as they embark on the following topics.</p> <p><u>Term 2</u> <u>Honey I Shrunk the Kids</u> Students will study the smaller, fundamental aspects of Science. Atoms and elements, animal and plant cells and states of matter.</p> <p><u>Term 3</u> <u>You are What You Eat</u> Students learn about the role of the digestive system, including where enzymes are found and their purpose. Students also consider energy provided by food and the energy provided by other sources e.g. fossil fuels</p> <p><u>Term 4</u> <u>Chemical Detectives</u> Student learn how to identify solids, liquids and gases. Students will also try to separate mixtures and compounds using various techniques e.g. distillation, evaporation and chromatography</p> <p><u>Term 5</u> <u>The Hospital</u> Students will be taught about the life cycle of a human from conception to birth.</p>

	<p>They will look at impact of inheritance on evolution and the significance of pioneering techniques like IVF and Saviour Siblings.</p> <p>They will also consider the impact of drugs, alcohol and smoking have on the human body and the impact of these factors on the healthcare system.</p> <p><u>Term 6</u></p> <p><u>Formula One</u></p> <p>Timed to occur during the Formula One season students will look at forces and friction and their impact on speed.</p> <p>Students will be introduced to the Plimsoll Line and investigate why objects may float or sink</p>
Extra-Curricular Opportunities	Year 7 students are welcome to attend a weekly Science Club run on a Wednesday evening, 3.20-4.30pm.
Useful Websites	We would recommend reliable websites like KS3 BBC Bitesize.
Provision For Most Able	<p>Our more able students will be working through the topics above, regularly referencing Science in the real world, looking at how the science we learn may apply to the latest discoveries.</p> <p>More able students will be asked to suggest, evaluate and predict how new technologies may impact our lives now and in the future.</p>
Assessment	<p>Students are assessed summatively each term on each topic.</p> <p>Students will be given a multiple choice test towards the end of the term to allow them and the teacher to diagnose the quality of their knowledge of the topic.</p> <p>From this students will be given support to improve any misconceptions or specific content areas before their end of topic test.</p> <p>Feedback from their end of topic test will be provided to students in the format of the pathway they have achieved and the skill in which they should continue to improve.</p>