



Sutton Coldfield Grammar School for Students Year 9 Curriculum Map: Autumn Term 2020



The purpose of this curriculum map is to give you a general outline of what your daughter is learning in school during this term. We are hoping that this will allow you to support your daughter more effectively in her studies and further enable you to have an open dialogue about learning with your daughter. Each department has made suggestions as to activities that will further support learning in their subject outside the curriculum.

Subject	What we learn	Outside the Curriculum
Art	During this term students continue to develop their confidence and creative aptitude by experimenting with a variety of processes and techniques. The area of inspiration is Surrealism. Students will research several artists for inspiration and work with ink, watercolour and discover how to generate original surreal images. They will develop their observational drawing skills and produce a creative outcome.	Practise your drawing and mixed-media skills. Students can also take an interest in photography and practise this skill at home. Visit Online art galleries and enjoy seeing art and photography with family and friends.
Biology	In Year 9 we start the GCSE Biology course. In the Autumn term students will start to work their way through the B1 Cell Level Systems module. This includes work on cell structures, what happens in cells, respiration and photosynthesis. Students will develop their practical skills and longer answers so that they perform to the best of their ability in exams.	Students will be learning to use a microscope. There are some microscopes available in shops that interested students could use. There are also lots of images taken through microscopes available at: http://www.cell.com/pictureshow
Chemistry	Students will commence the GCSE course by studying the particle model and the structure of the atom. They will then move on to study purity and separating techniques, which will involve lots of interesting practical work. Students will be introduced to the style of GCSE examination questions including multiple choice and long answer questions.	Students are encouraged to take time to view a range of on line resources such as YouTube and BBC Bitesize, to broaden knowledge and understanding about the models and techniques being studied.
Rotation of Subjects:- Food Product Design Textiles	In Food and Nutrition: Year 9 will be increasing their skill-base by practising different methods of cooking. This will equip them for feeding themselves and others, healthily in the future as they will be able to transfer the skills and knowledge they gain across a wide variety of recipes. Students will use their skills in the food room to develop their own recipe kit to make a meal suitable for a festival. Resistant materials and Graphic products: Students are required to design and manufacture a whole product using a range of materials and processes. The focus for this terms product is the promotion of an event and a suitable piece of merchandise. Students will then have to promote the product and produce the necessary packaging so it will be ready for sale. In Textiles: Students are looking at culture for inspiration to make masks. They will be looking at the processes of free machine embroidery, applique art and the versatility of modern products such as 'solufleece' to create 3D form. Particular emphasis will be placed on line, form, colour and pattern to make an inspiring pieces of work.	Practise higher level kitchen skills at home by making a range of bread and pastry products. Develop presentation ideas by watching Great British Bake Off and other cookery programs. Visit sketch a day website to develop their design skills and drawing at speed. http://www.sketch-a-day.com/ Look at how products are advertised in the real world. Visit a variety of the websites of retailers to explore textiles for a range of target markets
Drama	Students are exploring key extracts from various plays. They will consider the roles of performers, designers and directors when bringing to life key extracts from the texts. Students will consider their artistic vision for the plays and what they want to communicate to their audience. They will experiment with staging and key practitioners will be introduced throughout this unit.	When possible: Visit the Midlands Art Centre which frequently has interactive exhibitions or drama workshops. The Royal Shakespeare Company often runs free workshops during school holidays which can be good taster sessions for everyone from beginners to experienced performers. Go to local theatres such as Birmingham Rep/Library Theatre/Hippodrome/Lichfield Garrick which offer excellent performances all year round.
English	This term in English we begin by studying short stories and exploring how writers shape meanings through the language they use and the way they construct the narratives. Students are initially practising and developing their analytical skills. Later in the term we will go on to explore creative writing methods and giving students opportunity to utilise the techniques they have seen other writers use in their own short story and descriptive writing. Our second unit is a study of crime writing, starting with Arthur Conan Doyle's Sherlock Holmes stories and moving on to trace his influence in more modern and diverse texts. Once a fortnight, year 9 students are encouraged to practise extended reading and writing by spending half of a lesson reading a challenging text of their choice whilst the other half is given over to free writing. Students have a workbook of writing challenges which should enable them to, as the title suggests, 'Just Write'.	As always, encouraging independent reading is invaluable for developing enhanced skills in English. We recommend that students begin to read more challenging texts by this stage and recommendations are available from both class teachers and the librarian. Similarly, practising writing is important too and we suggest students try their hand at writing letters, stories, diaries, emails, blogs etc.
French	Expo 2 Module 4 : Introduction of food vocabulary. Through the course of the module, students will learn how to: discuss eating habits and food preferences; buy food at a market; use expressions of quantity; take part in short dialogues in a restaurant.	Use online website such as www.linguascope.com to revise and extend key vocabulary and www.languagesonline.org.uk to practise the past, present and future tenses. When possible, visit a local French restaurant or crêperie

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Geography	<p>This term will start with studying 'Africa: A continent of contrasts' – giving students the opportunity to explore many aspects of this vast continent. We will look at why people are migrating from the countryside into one of Africa's biggest cities, Lagos. Students will also study several of the modern challenges Africa is facing in education and health.</p> <p>In the topic "Amazon" we explore the structure of a rainforest, plants and animal adaptations and the lives of tribal people living in this environment. The local, national and global impacts of deforestation are explored along with sustainable solutions.</p>	<p>Read around the topic in the news – look for up to date articles on gender inequality in education, the impact of HIV and malaria in Africa and urban population growth in Africa.</p> <p>BBC and National Geographic documentaries on rainforests will enable students to see for themselves rainforest life. When possible, a trip to Birmingham Botanical gardens would allow students to witness these amazing plants for themselves</p>
History	<p>Students will be studying the impact of dictators in the 1930s. We will focus on life in the Soviet Union during the regime of Stalin and the events in that led up to Holocaust and the Final Solution of 1942.</p>	<p>When next possible and if in London visit the Imperial War Museum and experience their excellent exhibition on the Holocaust. Entry is free.</p> <p>Try some wider reading, 'Schindler's Ark' by Thomas Keneally or 'Between Shades of Grey' by Ruta Sepetys</p>
Computing	<p>In year 9 students will first take a unit in System Architecture. They will learn the role of the key CPU components including, Memory Address Register (MAR), Memory Data Register (MDR), Program Counter (PC), and the Accumulator. They will learn how the various characteristics of CPUs affect their performance. Next, they will learn about various computational thinking techniques, including decomposition, abstraction, pattern recognition and algorithmic thinking. The final unit will be understanding Boolean logic. They will learn what logic gates are and how they are used in a CPU. They will be able to develop logic diagrams using the operators AND, OR and NOT.</p>	<p>Visit Bletchley Park's website Learn Python programming using the website https://www.w3schools.com/python/ Use programming websites eg www.python.org Free online Python IDE https://repl.it/languages/python3 (Allows you to code online without downloading Python onto your computer) BBC Bitesize Computer Science has topics and end of unit tests. https://www.bbc.co.uk/bitesize/subjects/z34k7ty</p>
Mathematics	<p>In Geometry we look at trigonometry in right angled triangles and its practical applications. In number we look at reciprocals and the definitions of zero, negative and fractional indices along with the rules of indices. We will use standard form in calculations. In Algebra we develop our work on expanding brackets to look at triple brackets. We also look at the process of factorisation and use it to solve basic quadratic equations. We develop our graph work by going further with line graphs, parallel lines and perpendicular lines. In Statistics we look at probability including sample spaces and probability trees.</p>	<p>Mymaths.co.uk has lessons on all of the topics, as well as puzzles, games and extension materials. Students have been issued the current password by their Maths teachers.</p>
Music	<p>In the first half term students will look at Programme Music (music which depicts a scene, picture or a story). Students will study Mussorgsky's 'Pictures at an Exhibition' and then compose their own musical responses to a given picture.</p> <p>In the second half term students will be looking at variations and cover versions. Students look at a range of pieces that have been 'altered' and identify these techniques through listening. Students then demonstrate their understanding of variation techniques through performance and composition.</p>	<p>Consider buying a keyboard if you have not already got one at home</p> <p>While 'live music' is restricted at present widen your listening by retuning your radio to a new station, e.g. Classic FM or Radio 3.</p>
PE	<p>For the Autumn term the PE curriculum is broken down into two week blocks. In each block the students participate in a programme of study for one activity area. In the Autumn term students will take part in an introductory unit, which may include fitness tests, taster sport sessions and team building activities. Other activities in the Autumn programme of study will be netball, football, rounders, orienteering, badminton, fitness and gymnastics. Throughout each lesson the students will be developing their performance skills, fitness levels as well as their ability to officiate and lead.</p>	<p>Check notices to see what extra-curricular clubs are running.</p> <p>Look out for our extra-curricular activities weekly plan and join in some of the activities.</p> <p>Make sure that you are making every effort to take part in regular exercise. A minimum of 1 hour a day is recommended.</p> <p>Research different sporting activities to try out in our area.</p>
Physics	<p>Students are starting their GCSE course with Unit 2, Motion and Forces. (Unit 1 is key ideas that are applied throughout the entire course). Students will study the way objects move and how forces affect their movement. They will also make calculations of speeds and accelerations, and be introduced to ideas about momentum and road safety, including stopping distances.</p>	<p>Look at the Highway code, particularly the pages on stopping distances, to see how stopping and braking distances change with speed. Look at the tyres on your family car, or a friend's car, to examine the depth of the tread. How well do you think your tyres would push water out of the way?</p>
Religious Studies	<p>Students have the opportunity in Year 9 to begin to consider religion in a philosophical way. In the first half term, they consider the arguments for and against the existence of God and in the second half term, they complete an in-depth study into the debate about evil and suffering.</p>	<p>Take the opportunity to discuss arguments for and against the existence of God within your family. Are you atheists? Why? Are you members of a particular faith community? What are the reasons behind your beliefs? Look out for stories in the news that are relevant to the study of religion.</p>
Spanish	<p>Claro 1 Unit 4: In Unit 4 students will learn to talk about the area where they live, describe types of house, discuss the different rooms in a house, describe their bedroom, talk about their dream home using the conditional tense and describe household tasks.</p>	<p>Use www.linguascope.com and www.kerboodle.com to practise reading and listening to new vocabulary. Aim to have conversations in Spanish with your friends.</p>