

# QMGS Key Stage 3 Curriculum 2016-17



Subject	Year 7	Year 8	Year 9	Other notes
<b>Art</b>	Pop Art. Through investigating Pop Art pupils are introduced to basic drawing, research and evaluation skills. The topic is split into three smaller projects that build on these skills over the year.	Art History. Looking at and experimenting with techniques used by 6 Artists. Using several different mediums to learn and develop a range of drawing and painting techniques. Poly printing. Printing project; learning how to develop ideas from concept to final outcome. Graphic design using computers. Using Photoshop to develop and produce creative outcomes.	Fantasy Illustration Project. Introduction to GCSE Art. Mixed Media Assemblage. Mixed media. Exploring the creative process.	
<b>Biology</b>		Term 1: Cells, tissues, organs and organ systems. Respiration and Photosynthesis. Term 2: Physiology and adaptations of the body. Term 3: Food chains and webs including tropic levels. Adaptation of organisms.	Term 1: DNA. Cell division including mitosis and meiosis. Genetics. Term 2 & 3: AQA GCSE Biology Unit 1. Cell Structure.	
<b>Chemistry</b>		Pupils are taught the a range of topics covering the a number of key concepts: 1) Substances and mixtures 2) Simple chemical reactions 3) Solubility 4) Earth and atmosphere 5) Formulae and equations A key feature is the development of not only theoretical understanding but also practical skills.	Pupils are taught the a range of topics covering the a number of key concepts: 1) Periodic table 2) Chemical reactions 3) Metals 4) Rates A key feature is the development of not only theoretical understanding but also practical skills.	
<b>Design &amp; Technology</b>	Chocolate Moulds: Vacuum forming. Competition with link to Food Technology. Ear-Phone Cable Tidy: Iterative design challenge. Laser cut acrylic and use of CAD	Textiles: Introduction to compliant materials STEM Racing Car Challenge: An iterative design challenge	Passive Amplifier: A design challenge using pine as the main construction material. Pewter Casting: Designing jewellery influence by shapes in nature	

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	<p>Egg Holder: Use of acrylic and the laser cutter together with hand tools.          SMART Thermometer: SMART materials and aluminium sheet. Bending jigs for accuracy          Pull-a-long Toy: Simple mechanisms and woodwork tools.          Electronics: Soldering 3 simple PCBs. An introduction to components and soldering.          Graphics: Oblique drawing and orthographic projection          House Competition: Design a product for the shop at the National Memorial Arboretum.          Formal Tests: December and May</p>	<p>Sublimation Printing: Design and making a set of coasters          Structures: A team challenge          Graphics: Isometric drawing and orthographic projection. Simple rendering          Tea-Light Candle Holder: Sustainable design. Reuse HIPS to form the project          Architectural Challenge: Scale model of a bus shelter or bike rack          House Competition: Design a product for a teenager's bedroom in the style of <i>JJD Furniture</i>          Formal Test: December and May</p>	<p>Product Models: Using Styrofoam to produce scale prototype models          Post-Modern Clock: Design and make a clock based on the Post-Modern design era          PICAXE Control Technology: Solder a circuit and then programme the microchip          Graphics: Perspective drawing and orthographic projection          Mobile Phone Holder: CAD and CAM. Product made on the laser cutter using acrylic.          House Competition: Design a product for the home in the style of Alessi          Examination: 90 minute examination in the summer term.</p>	
<p><b>English</b></p>	<p>In Year 7 we try to foster enjoyment of reading, writing and oracy. It is vital that pupils embed the core skills essential to success at GCSE and beyond and thus equip themselves as lifelong lovers of English. They will do so through their classwork, their daily reading at home and their wider cultural experiences provided in and out of school.</p> <p>In Year 7, pupils are welcomed into the school with a unit of work on autobiographies, an opportunity to express themselves to their peers and teacher. Other topics covered include the novel <i>Tamburlaine's Elephants</i> by Geraldine McCaughrean and an introduction to Shakespeare through the sonnets.</p>	<p>In Year 8 pupils continue to develop a knowledge and love of Shakespeare by studying <i>Henry V</i> and exploring what it means to be a leader – and a man. Reading and writing crime fiction is extremely popular with the boys, alongside other topics.</p>	<p>Pupils continue to develop their core skills and increasingly work to situate text within social, historical and cultural contexts. They build comparative connections across their reading in lessons and beyond. Pupils are taught about Shakespeare's <i>Romeo and Juliet</i>, a range of 19th century gothic fiction, 20th century war poetry and other texts besides.</p>	

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<b>Food Technology</b>	One full day of cooking- 2 savoury and 1 sweet recipe to prepare and take home	One full day of cooking – 2 savoury and 1 sweet recipe to prepare and take home  1 session of PSHE – Healthy Eating	One full day of cooking – 2 savoury and 1 sweet recipe to prepare and take home	Food Safety Nutrition and Consumer Awareness advice inputted when possible during the 1 day session
<b>French</b>	Listening/speaking/reading/writing skills Greetings/classroom language/where live/numbers/dates/family/home/pets/important dates/weather/family activities/towns/school/meals/sports	Listening/speaking/reading/writing skills In town/countries/transport/school/family life and visitors/cafés/travel plans/clothes/parts of the body/going out/holiday activities	Listening/speaking/reading/writing skills French-speaking world/Relationships/ Paris/Leisure time/School and jobs/Hotels/Québec/Environment/ Health/Holidays	
<b>Geography</b>	What is Geography? Earthquakes & Volcanoes Geographical Skills Settlements and Sustainability	Coasts Population & Resources The Age of Stupid Extreme Geography RGS Young Geographer	Get the Picture Development Geography in the News Tectonic Hazards	
<b>History</b>	Introduction to History skills The Romans The Norman Conquest Medieval English life The Crusades Islamic Empires	The Tudors The English Civil War The English Republic, Restoration & Glorious Revolution Witches , Plagues, Fires Slavery Campaign for Equality: GB, USA, N. Ireland, Windrush Industrial Revolution	The First World War International Peace? The Inter-war Years Outbreak of World War II Peoples of Britain: Migration, empires & the people c.790-present	Research projects: Roman shield building, model castle building, Islamic Empires, Industrial Revolution, German Unification. Year 9 follows a GCSE style course from the Spring term.
<b>ICT/ Computing</b>	Introduction to our computer network e-Safety Websites What is a computer system?	Students prepare of a Cambridge International Examinations IGCSE in ICT taken at the end of Year 9. The course is all exam based. Further details can be found at: <a href="http://www.cie.org.uk/programmes-and-qualifications/cambridge-igcse-information-and-communication-technology-0417/">http://www.cie.org.uk/programmes-and-qualifications/cambridge-igcse-information-and-communication-technology-0417/</a> . The course gives students		

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	<p>Hardware and Software                  Desk Top Publishing                  Spreadsheets                  Databases                  Programming using Microbits                  Graphics</p>	<p>excellent practical skills using the main office applications and creating websites. In addition, to a good working knowledge of computer systems hardware and software, ICT in society and the principles of software development.</p> <p>In addition, we also do an introduction to programming unit (Not part of the IGCSE). This is using the Python programming language. This gives students a flavour for what students should expect the Computer Science GCSE to be like. This is offered in Year 10 and 11 and is very different from the IGCSE ICT qualification.</p>		
<b>Mandarin</b>	<p>About yourself                  Family                  Time Expression + Spring Festival                  Basic strokes                  Food and Drinks                  Hobbies</p>	<p>Home area                  Time expression                  School life                  Food and Drinks                  Leisure activities</p>	<p>Home Area                  Meeting People                  Education                  Shopping                  Visiting places</p>	
<b>Maths</b>	<p>Pupils follow the MyMaths for KS3 1C text book, available through Kerboodle and supplemented by MyMaths.co.uk. This covers all the <i>usual suspects</i> for a KS3 scheme of work: introductory algebra, shape and space, data handling, number work. The lessons cover all the fundamental skills so that any gaps in a pupil's knowledge, from primary school, are filled.</p>	<p>Pupils follow the MyMaths for KS3 2C text book, available through Kerboodle and supplemented by MyMaths.co.uk. This covers all the <i>usual suspects</i> for a KS3 scheme of work: further developing algebraic skills to solve multi-step equations and further investigation of formulae, shape and space extending to including similar triangles, constructions, data handling and probability and the continued practise of number work. The lessons develop all the fundamental skills and expand on the pupils learning from year 8.</p>	<p>Pupils follow the MyMaths for KS3 3C text book, available through Kerboodle and supplemented by MyMaths.co.uk. This covers all the <i>usual suspects</i> for a KS3 scheme of work: further developing algebraic skills to solve tough problems involving complex algebraic fractions, in shape and space developing an understanding of trigonometry and begin to explore the circle theorems, in probability work with independent and mutually exclusive events, and understand linear and quadratic graphs, equations and sequences. These lessons further develop all the skills which they will need to be successful at GCSE.</p>	<p>Annually we enter our pupils for the Junior Maths Challenge and our best pupils represent the school in the Team Maths challenge. We are also lucky to have a plethora of willing sixth formers who offer support in lessons and mentoring outside of the lesson to aid and assist our weaker pupils.</p>

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<p><b>Music</b></p>	<p>In year 7, all boys receive a musical instrument on free loan for 12 months. Boys have the option of choosing either trumpet, trombone, baritone or clarinet. Everybody learns together in their form groups and by the end of the year it is hoped that all will have developed some basic instrumental technique and an understanding of proper musical notation.</p>	<p>In years 8 &amp; 9, the music curriculum is taught through various projects, each developing performing, composing and listening/appraising skills. The lessons continue to be highly practical with more emphasis now on keyboard skills. Year 8 projects....Blues music/ Dance music/ Scales Year 9 projects....Reggae/ Theme &amp; Variations/ Ostinato patterns</p>		<p>The KS3 music curriculum is designed to hopefully engage pupils of all musical ability.....from those who are naturally musically gifted to those who have had little or no prior musical experience</p>
<p><b>PE</b></p>	<p>Swimming Basketball Volleyball Badminton Rugby Union Hockey Cricket Athletics Tennis</p>	<p>Swimming Basketball Volleyball Badminton Rugby Union Hockey Cricket Athletics Tennis</p>	<p>Swimming Basketball Volleyball Weights/Cardio Rugby Union Hockey Cricket Athletics Tennis</p>	
<p><b>Physics</b></p>		<p>Sound including wave idea and speed measurement techniques Light including ray diagrams and analysis Forces including Hooke's Law and numerous mathematical methods. Space including pupil presentations on the Solar System and beyond.</p>	<p>Motion including graphical and mathematical methods of analysis Electricity including many practical based activities using various electrical meters Magnetism including an electromagnet based practical assessment Energy including pupil presentations on electrical generation methods KS4 work starts after Easter with the GCSE Energy and Heat topics</p>	
<p><b>PSHEE</b></p>	<p>Year 7 pupils have a fortnightly timetabled PSHEE lesson with their form tutors. Pupils explore personal, social and health-related issues through the following modules: 'Settling in and</p>	<p>Year 8 have a day off timetable for PSHEE rather than a timetabled lesson. This year's 'drop-down day' is 26<sup>th</sup> May and will cover the following topics: First-Aid,</p>	<p>Year 9 also have a fortnightly timetabled PSHEE lesson, delivered by a team of five staff who each deliver their specialist topic, with the</p>	


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	Relationships', 'Understanding Others', 'Physical and Mental Health', and 'Staying Safe'. Sub-topic include setting personal goals, expectations at QMGS, diversity, human rights, personal hygiene, cancer prevention and road safety.	Bullying, Mental Health, Careers and Nutrition, delivered both by in-house staff and external agencies.	year group split into classes of around 24 and rotating after four sessions. These topics are: 'Sex and Relationships', 'Careers', 'Money Management', 'Alcohol and Drugs' and 'Human Rights, Multiculturalism and the Legal System'.	
<b>Religion, Philosophy &amp; Ethics</b>	<ul style="list-style-type: none"> <li>A. Existential Questions (the nature of truth, the nature of belief, worldviews)</li> <li>B. The Metaphysics and Existence of God (what is "God"? Does God exist?)</li> <li>C. Philosophy (Possible worlds semantics; truth; divine paradoxes; miracles; religious morality in the Bible and Koran; the relevance of Scripture; religious radicalism; morality in Christianity, Judaism, Islam and Sikhism;</li> <li>D. The Jewish Worldview (Truth and Authority; The Torah and Moses; the Patriarchs; Circumcision and Covenant)</li> <li>E. Hermeneutics (What words mean; Religious Fundamentalism; Context; Extremism)</li> <li>F. The Koran (The History and message of the Koran; Submission; The Friends and Enemies of God; Shirk, sin and paradox; The Clatterer)</li> <li>G. Toleration (The meaning of "tolerance"; racism and intolerance)</li> </ul>	<ul style="list-style-type: none"> <li>A. Theism (The causes of belief; the nature of Scripture; the Kalaam Cosmological Argument; reasons for belief in God)</li> <li>B. Secularism (the nature of secularism; arguments in favour of secularism; atheism)</li> <li>C. Humanism (Blasphemy; Humanism)</li> <li>D. Tradition and Change (Idolatry; Revelation; Authority; Traditionalism and Progressivism)</li> <li>E. The Koran (The Koran in the Modern World; The Koran and Science; The Koran and Tolerance; The Koran and Equality.)</li> <li>F. Dharmic Religion (Hinduism and Sikhism)</li> </ul>	<ul style="list-style-type: none"> <li>A. Epistemology &amp; Metaphysics (the nature of knowledge and reality; the Allegory of the Cave; Propositions and Truth; The Ethics of Lying - why is lying wrong? The conscience in theism and secularism; The Ontological Argument)</li> <li>B. The Christian Worldview (Basic facts; the tripartite theory of human history; Original Sin, Grace, Love, Free Will; the Fall of Man; the hermeneutics of the Genesis Creation Myth; the Stanford Prison Experiment)</li> <li>C. Jesus Christ (Jesus's Childhood; Jesus's Mission and Messianism; Jesus's Death and Resurrection)</li> </ul>	<p>Check out our website: <a href="http://www.qmgsrpe.co.uk">www.qmgsrpe.co.uk</a></p> <p>Twitter: @QMGSRPE</p>
<b>Science</b>	<ul style="list-style-type: none"> <li>Safety and laboratory techniques</li> <li>Electrical circuits and electromagnets</li> <li>Use of microscopes</li> <li>Using pH indicators</li> <li>Force and weight measurements</li> <li>Reproduction</li> <li>Solids, liquids and gases</li> <li>Investigating energy from fuels</li> <li>Flower dissection</li> <li>Separation techniques</li> </ul>			

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<p><b>Spanish</b></p>	<p>Listening/speaking/reading/writing skills Greetings/classroom language/where live/numbers/dates/family/home/pets/important dates/weather/family activities/towns/school/meals/sports</p>	<p>Listening/speaking/reading/writing skills In town/countries/transport/school/family life and visitors/cafés/travel plans/clothes/parts of the body/going out/holiday activities</p>	<p>Listening/speaking/reading/writing skills French-speaking world/Relationships/ Paris/Leisure time/School and jobs/Hotels/Québec/Environment/ Health/Holidays</p>	
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