

Computing at KS4 in EBACC subjects				
subject	Year 10		Year 11	
English	<ul style="list-style-type: none"> - Digital literacy (reading/decoding digital texts) - Creating & writing digital texts (blogs, websites, texts etc.) 			
Maths	<p>Foundation</p> <p><u>Autumn term</u></p> <ul style="list-style-type: none"> • Charts and Graphs --- Produce bar charts and record data on Microsoft Excel (2 lessons) • Constructions and Loci --- Use of notebook to construct triangles and a loci of shapes. (2 to 3 lessons) • Angles --- Measuring and estimating angles on Mymaths. Mymaths online Homework (1) <p><u>Spring term</u></p> <ul style="list-style-type: none"> • Real – life graphs --- Analysing speed/Time graphs on Autograph National Strategy software (1 or 2) • Scatter Graphs --- Plotting scatter graphs on the notebook. A template of the axes is saved on the maths common drive (1) <p><u>Summer term</u></p> <ul style="list-style-type: none"> • 3D Shapes --- A National strategy software “building a house”(1 lesson) 	<p>Higher</p> <p><u>Autumn term</u></p> <p>October</p> <ul style="list-style-type: none"> • Fractions, percentages and decimals: Interactive games and activities. Mymaths online homework. (1 lesson) <p>November</p> <ul style="list-style-type: none"> • Constructions and Loci: Use of notebook to construct triangles, bisectors, etc. (2 lessons) • Angles: Measuring and estimating angles on Mymaths. Mymaths online Homework (1 lesson) <p><u>Spring Term</u></p> <p>February</p> <ul style="list-style-type: none"> • 2D and 3D shapes: ‘Building a house’ software from the National Strategy – Project a solid and ask students to draw the side, plan and front elevations. (1 lesson) • Displaying data: students to enter data on excel and draw bar charts, pie charts and frequency polygons (1 lesson and may be a homework) • Histograms: use of Autograph to draw histograms (2 lesson) <p>March</p> <ul style="list-style-type: none"> • Linear graphs: use of autograph or geogebra to enter coordinates and 	<p>Foundation</p> <ul style="list-style-type: none"> • Transformations --- The interactive software on Mymaths that shows Rotations, Reflection and Translations (4 lessons) • Formulae --- Deriving formulas and the input of formulas into Microsoft Excel. (1 lesson) 	<p>Higher</p> <p>October</p> <p>Transformations --- The interactive software on Mymaths the shows Rotations, Reflection and Translations or use of geogebra (3 lessons)</p> <p>Quadratics: use of geogebra or autograph to draw quadratic graphs (1 lesson)</p> <p>March</p> <p>Transformations of functions: geogebra (2 to 3 lessons)</p> <p>Revision: Research exam types questions, My Maths,bbc bitesize, PowerPoint presentation on a topic of their choice – students led lesson.</p> <p>Research and use real life problems for functional skill questions – eg carpeting a room – students to shop online for the price of carpets per square metres</p>

	<ul style="list-style-type: none"> • Fractions, percentages and decimals - - - Interactive games and activities. Mymaths online homework. (1 lesson) 	<p>equations of linear graphs. They learn how to edit axes as well. (2 lessons)</p> <p>May</p> <ul style="list-style-type: none"> • Pythagoras' Theorem: research on the history of Pythagoras (1 for the research and 1 to present their work on powerpoint) 		
<p>Science</p>	<p>Term1</p> <ul style="list-style-type: none"> • HSW 11 Use ICT tools to present information (charts and graphs) • HSW 10 Use data logging equipment to collect data • HSW 12/13 Impact of using technology <p>Term2</p> <ul style="list-style-type: none"> • HSW 11 Use ICT tools to present information (charts and graphs) • HSW 10 Use data logging equipment to collect data • HSW 12/13 Impact of using technology <p>Term3</p> <ul style="list-style-type: none"> • HSW 11 Use ICT tools to present information (charts and graphs) • HSW 10 Use data logging equipment to collect data • HSW 12/13 Impact of using technology • Data loggers <ul style="list-style-type: none"> ○ Temperature ○ pH ○ oxygen sat ○ heartbeat (pulse) <ul style="list-style-type: none"> • Tutor Software (online homework) • Animations and movie making 	<p>Term1</p> <ul style="list-style-type: none"> • HSW 11 Use ICT tools to present information (charts and graphs) • HSW 10 Use data logging equipment to collect data • HSW 12/13 Impact of using technology <p>Term2</p> <ul style="list-style-type: none"> • HSW 11 Use ICT tools to present information (charts and graphs) • HSW 10 Use data logging equipment to collect data • HSW 12/13 Impact of using technology <p>Term3</p> <ul style="list-style-type: none"> • HSW 11 Use ICT tools to present information (charts and graphs) • HSW 10 Use data logging equipment to collect data • HSW 12/13 Impact of using technology • Data loggers <ul style="list-style-type: none"> ○ Temperature ○ pH ○ oxygen sat ○ heartbeat (pulse) <ul style="list-style-type: none"> • Tutor Software (online homework) • Animations and movie making 		

	<ul style="list-style-type: none"> Filming practicals 		<ul style="list-style-type: none"> Filming practicals 	
Geography	<p>half-term before and after Easter break</p> <ul style="list-style-type: none"> Controlled Assessment <p>40 lessons (Use of satellite imagery, using GIS packages to illustrate and interpret geographical data, creative use of Excel packages for data presentation and reports)</p> <ul style="list-style-type: none"> Google Earth Time Slider Use of World Mapper <p>Gap minder – grappling development indicators.</p>		<ul style="list-style-type: none"> half-term before Christmas Geography Unit 2 Carbon Footprint Calculations <p>2 lessons (Use of online data package to calculate and compare carbon footprints, examination of digital mapping to make global comparisons)</p> <ul style="list-style-type: none"> Google Earth Time Slider Use of World Mapper <p>Gap minder – grappling development indicators.</p>	
History	<p>Movie Maker project(2-3 lessons)</p> <p>Students are taught how to create short films using imovie or windows movie player. Students produce the films in small groups and work collaboratively on the content and style. There is then a film premier where the class peer assess / review each other's movies.</p>			
Languages	<p>Bengali & Spanish</p> <p>Healthy living Students use MP3 Audio recording equipment in the VLE. Edit Audio equipment.</p> <p>Media, technology, shopping and free time Students use word documents and web based software to edit writing preparation for Controlled assessments.</p> <p>Relationships and choices Use website based resources and</p>	<p>French</p> <p>Free time and media Students use word documents and web based software to edit writing preparation for Controlled assessments.</p> <p>Holidays Use power point to present past holidays. Use video recording and editing equipment</p> <p>Relationships and choices Use website based resources and documents to practise reading and</p>	<p>Bengali& Spanish</p> <p>Education and work Students use MP3 audio recording equipment to prepare for speaking exam.</p> <p>Holidays Use power point to present past holidays. Use video recording and editing equipment</p> <p>Home, local area and environment Use website based resources and documents to practise reading and listening.</p>	<p>French</p> <p>Education and work Use website based resources and documents to practise reading and listening.</p> <p>Home and local area Students use MP3 audio recording equipment to prepare for speaking exam.</p> <p>Environment Use website based resources and documents to practice reading and listening.</p>

	documents to practise reading and listening.	listening.		
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Computing at KS4 in options	
music	Students develop knowledge and skills in using <ul style="list-style-type: none"> - Garage band (Software) - Logic (Software) - Sibelius (Software) - Office (Software) - Audacity (Software)
Resistant material	Students develop knowledge and skills in using <ul style="list-style-type: none"> - 2D Design - Google sketcher - 3D printing Illustrator
Art	Students develop knowledge and skills in using <ul style="list-style-type: none"> - Animation - Photoshop illustrator
Graphics	Students develop knowledge and skills in using <ul style="list-style-type: none"> - Photoshop - Illustrator - Digital photography - Animation
Business	Students develop knowledge and skills in using <ul style="list-style-type: none"> - Moviemaker Access

