

# 2019/20 Curriculum Plan – ICT

|        | Term | Year 7  | Year 8   | Year 9   | Year 10   | Year 11  |
|--------|------|---|--|--|---|--|
| Autumn | 1    | <p><b>E-Safety:</b><br/>Students will create a booklet using Publisher, covering issues such as: Staying safe online, Cyberbullying, grooming, Phishing, Health and Safety. Viruses, password security and digital footprints</p> | <p><b>Websites-HTML</b> coding.<br/>Students will create a simple 3 page website using Notepad</p> <p><b>What is a computer:</b><br/>Students will create a Website covering topics such as: Input/Output, RAM/ROM, CPU, Storage and Binary. The website will include; Roll over buttons, hyperlinks, hotspots and an animation.</p> | <p><b>Graphics Project:</b><br/>Students will create a Games CD cover using graphics software eg Photoshop and Fireworks. During this project they will; Research designs for games covers, Design a games cover, Implement the games cover using advanced ICT Skills and evaluate their work. <b>Business Skills:</b><br/>Students will use a variety of software packages to solve an of assortment business problems.</p> | <p><b>iMedia Creating Digital Graphics:</b> This is a continuation from Year 9. This unit aims to give students the skills to use the tools and techniques provided by artwork and imaging software to design and create effective graphic products for specified purposes and audiences. Students will demonstrate their ability to create effective images and graphic products through their work on a major project set by OCR.</p> | <p><b>Continue with 2nd optional unit</b><br/>Students will continue with their 2nd Optional Unit from the examination board list this can either be:<br/>R083 Creating 2D and 3D digital Graphics<br/>R084 Story Telling with Comic Strip<br/>R085 Creating a website<br/>R086 Creating an Animation<br/>R087 Creating an IMP</p> |
|        | 2    | <p><b>E-Safety</b><br/>Continued<br/><b>Computational Thinking</b> , Using <a href="http://www.Teach-ICT.com">www.Teach-ICT.com</a> website students will complete the online exercises which cover breaking a</p>                |  |  | <p><b>1<sup>st</sup> Optional Unit of choice:</b><br/>Students can select an Optional Unit from the examination board list this can either be:<br/>R083 Creating 2D and 3D digital Graphics<br/>R084 Story Telling with Comic Strip<br/>R085 Creating a website</p>   | <p><b>Prep for exam</b> on the 8th of January.<br/>Students will need to understand the purpose and content of pre-production, be able to plan pre-production, be able to produce pre-production documents, be able o review pre-production documents</p>  |

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|        |      | problem down into smaller parts in order to find a solution   |  |   | R086 Creating an Animation<br>R087 Creating an IMP  |  |
| Spring | 3    | <b>Scratch, Coding and Flowol:</b><br>Students will use Code.org , MSW Logo and Scratch to create shapes and games. They will use Flowol to control traffic lights and a light house. | <b>Boolean and Representing Data::</b><br>Students will complete the exercises on <a href="http://www.teach-ict.com">www.teach-ict.com</a> to learn about Boolean<br><br>logic, truth tables and logic gates. They will also use the same website to learn about how data is represented using images, sounds and text.  | <b>imedia Creating a Website;</b> Students will select the Web design software to; design and implement a website for a given scenario. |   | <b>Continue with 2<sup>nd</sup> Optional unit</b><br>Students will continue with their 2nd Optional Unit from the examination board list this can either be:<br>R083 Creating 2D and 3D digital Graphics<br>R084 Story Telling with Comic Strip<br>R085 Creating a website<br>R086 Creating an Animation<br>R087 Creating an IMP |
|        | 4    |   | Using <a href="http://www.Teach-ICT.com">www.Teach-ICT.com</a> website <b>Pseudocode</b> , students will complete the online exercises where they will write examples of basic pseudocode and use mathematical symbols, conditions and variables in their pseudocode<br><b>Algorithms:</b> Students will use several key algorithms that reflect computational thinking, for example, algorithms for sorting and |   | <b>Preparation for examination</b> June 9<br>Students will need to understand the purpose and content of pre-production, be able to plan pre-production, be able to produce pre-production documents, be able o review pre-production documents | <b>Preparation for examination</b> June 9 (retake only)  |

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|--------|------|---|---|---|---|---------|
|        |      |   | <p>searching</p> <p><b>Binary;</b> be able to convert larger denary numbers to binary (i.e. up to 255) and binary back to denary</p>  |   |   |         |
| Summer | 5    | <p><b>Spreadsheets:</b><br/>Students will format a spreadsheet, use simple formulas and advanced functions.</p>   | <p><b>Python an Introduction:</b><br/>Using <a href="http://www.Teach-ICT.com">www.Teach-ICT.com</a> website students will write a simple computer program, avoid basic syntax errors when writing a program, assign a suitable name to a variable and identify a value that might be stored within that variable</p> | <p><b>Creating Digital Graphics:</b> Students will start the current iMedia exam board set assignment on the mandatory unit R082 Creating Digital Graphics, they will use graphics software. During this project they will; Research designs, create an image, using advanced ICT Skills and evaluate their work.</p> |   |         |
|        | 6    | <p><b>Data bases:</b><br/>Students will interrogate a database for a given purpose</p> <p><b>Video Editing:</b><br/>Students will add text and credits to a video; they will add transitions and other effects.</p> |   |   | <p><b>2<sup>nd</sup> Optional Unit of choice:</b><br/>Students can select an Optional Unit from the examination board list this can either be:<br/>R083 Creating 2D and 3D digital Graphics<br/>R084 Story Telling with Comic Strip<br/>R085 Creating a website<br/>R086 Creating an Animation<br/>R087 Creating an IMP</p> |         |