

COMPUTER SCIENCE: Key Stage 4 Curriculum

Year 11

Content (Intent)	Links to prior learning	Skills and Assessment (Implementation)	Expected Learning Outcomes (Impact)
<p>Term 1/2 Paper 1 Systems software</p> <ul style="list-style-type: none"> - Operating Systems - Utility software <p>Ethical, legal, cultural, and environmental impacts of digital technology</p> <p>Paper 2 Practice Practical Programming Task</p> <p>Producing robust programs</p> <ul style="list-style-type: none"> - Maintenance of code - Testing - Test Data 	<p>Year 10 term 6: That all computer systems need software to make them work</p> <p>Year 10 term 5/6 Develop coding ability using a High-Level programming Language</p> <p>Being able to identify and correct errors in code</p>	<p>Skills:</p> <ul style="list-style-type: none"> - Use of operating systems - Maintenance of hardware or software - Written communication <p>Assessment: End of topic tests Test Plan with outcomes</p>	<p>Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.</p>
<p>Term 3/4 Practical Programming Task</p>		<p>Skills:</p> <ul style="list-style-type: none"> - Use of a text-based programming language - Written communication 	<p>Can use a text based high level programming language to solve a real-world problem.</p>

		Assessment: <ul style="list-style-type: none"> - Full documentation evidence of a task having been developed, implemented, tested and evaluated - 20 minutes in class tests 	
Term 5 Revision of all topics in preparation for external GCSE examinations	Recapping of all topics covered in Key Stage 4, all terms	Skills: <ul style="list-style-type: none"> - Examination technique - Writing Long answer responses Assessment: <ul style="list-style-type: none"> - Past paper questions - 20 minutes in class tests 	Application of knowledge to answer specific questions Written communication, answering lone essay style questions

Resources and/or activities to support learning

Textbook: Computer Science OCR J277 By PG Online (provided to students at start of Year 10)

You Tube – Craig 'n' Dave videos for OCR GCSE J277

You Tube – Crash Course Computer Science videos

Useful programming websites:

Practicing Python coding: [Code Marker UK](#)

Online tutorials for Python: [Python Tutorial \(w3schools.com\)](#)