

Subject: Computer Science

Year group: 11

Department Curriculum Vision: Enabling students to understand and learn how to use technology effectively and safely,as well as, developing their computer coding skills, preparing them for the increasingly digital world.

	Autumn Term 1	Autumn Term 2
Content: (Know what...)	• Defensive Design • IDE • Testing	• Architecture of the CPU
Skills: (know how...)	How to make coding robust. IDEs make it easier for programmers to code. To test programs to ensure robustness.	The architecture of a computer can affect performance.

Key vocabulary	Debugging Compilers Defensive design Well maintained Logic error	CPU Cores Cache Quad Overflow Clock speed RAM ROM
Mid Term Assessment	Unit tests	Unit tests.
End Term Assessment	Past papers for Unit 01 and 02	Past papers for Unit 01 and 02
	Spring 1	Spring 2
Content: (Know what...)	• Programming Techniques (Python) • Revision • Searching and sorting algorithms	Exams for Paper 1 and Paper 2

Skills: (Know how...)	Know how to implement selection, sequence and iteration for various scenarios.	Effective revision techniques.
Key vocabulary	Debugging Repeat Iteration Sequence Selection	Sequence Iteration Selection Debugging Repeat CPU Cores
Mid Term Assessment	Unit tests	Unit tests
End Term Assessment	Past papers for Unit 01 and 02	Past papers for Unit 01 and 02
	Summer 1	Summer 2
Content: (Know what...)	Exams for Paper 1 and Paper 2	N/A

Skills: (Know how...)	Describe how a computer system works and be able to code.	N/A
Key vocabulary	Sequence Iteration Selection Debugging Repeat CPU Cores	N/A
Mid Term Assessment	Past paper questions on various topics.	N/A
End Term Assessment	Past paper questions on various topics.	N/A
Additional information		
Homework	Revision for tests Knowledge based assignments Worksheets to support Unit 1 and 2 Past paper questions.	
Extra curricular and enrichment opportunities	Drop in sessions at lunch time for help.	
Useful links that will	Download Python to help students with coding. Sign up to Codeacademy to help with coding	

support learning	Buy the CGP GCSE Computer Science OCR Revision Guide
How parents can support learning	Encourage students to code at home. Encourage students to keep abreast of the latest news in technology Buy the OCR GCSE Computer Science OCR Revision Guide