

Curriculum Overview Computer Science KS4 – Holly Lodge Girls’ College

Year 10		
Title	Curriculum content	Assessment
Term 1	<ul style="list-style-type: none"> • 2.4.1 Boolean logic • 1.2.3 Units • 1.2.4 Data storage - Numbers • 1.2.4 Data storage - Characters • 2.1.1 Computational thinking • Practical Programming 	Written Assessments will take place throughout year and at the end of each topic
Term 2	<ul style="list-style-type: none"> • 1.2.4 Data storage - Images • 1.2.4 Data storage - Images • 1.2.4 Data storage - Sound • 1.2.4 Data storage - Sound • 1.2.5 Data storage - Compression • 1.2.5 Data storage – Compression • 2.1.2 Designing, creating and refining algorithms • Practical Programming 	End of year exam
Term 3	<ul style="list-style-type: none"> • Architecture of the CPU • 1.1.2 CPU Performance • 2.2.1 Programming fundamentals • 2.2.2 Data types 	
	<ul style="list-style-type: none"> • 1.1.3 Embedded systems • 1.2.1 Primary storage (Memory) • 1.2.2 Secondary storage • 2.2.1 Programming fundamentals • 2.2.3 Additional programming techniques 	
	<ul style="list-style-type: none"> • 1.2.2 Secondary storage • 1.3.1 Networks and topologies • 2.2.3 Additional programming techniques • Practical Programming Skills 	

	<ul style="list-style-type: none"> • 1.3.1 Networks and topologies • 1.3.2 Wired and wireless networks, protocols and layers • 1.3.2 Wired and wireless networks, protocols and layers • 1.3.2 Wired and wireless networks, protocols and layers • Exam Prep • Year 10 exam 	
Year 11		
Title	Curriculum content	Assessment
Term 1	<ul style="list-style-type: none"> • 1.4.1 Threats to computer systems and networks • 1.4.2 Identifying and preventing vulnerabilities • 1.5.1 Operating systems • 2.3.1 Defensive design • 2.3.2 Testing • 1.5.2 Utility software • 1.6.1 Ethical, legal, cultural and environmental impact • 2.3.2 Testing • 2.5.1 Languages • 2.5.2 The Integrated Development Environment (IDE) 	Assessments will take place throughout year Dec - Mock exam
Term 2	<ul style="list-style-type: none"> • Programming Revision • 2.1.3 Searching and sorting algorithms • Searching and Sorting Practical Programming skills • Theory Revision • Practical Programming Skills Revision 	
Term 3		