

of modules which will help them to develop their understanding of computer systems, number systems, programming and how to stay safe when accessing information online							
Term/Length	Outline	Assessment/Teacher	Homework and Literacy resources				
of Time		Feedback Opportunities					
Autumn 1	Using a Computer	MS Forms based end of unit	Minimum homework expectation - to be set on G4S				
	Students will familiarise	assessment.	Completion of revision activity using Seneca Learning				
	themselves with the school	Mixture of Open and Closed					
	network and learn how to use	questions with an additional	Optional homework tasks and Literacy resources				
	computers and the computer	focus on keywords/literacy	Creation of revision resource (e.g. mind map) to be submitted				
	room safely and effectively.		alongside compulsory activity				
	Students learn how to use						
	OneNote for lessons. Students		Complete some Bronze Award badges on the iDEA Award to				
	will understand how to be safe		showcase your digital literacy and employability skills. Once complete				
	and responsible on the internet:		you can move to Silver and then Gold certificates				
	fake websites, safe searching,						
	copyright, staying safe online,		Access BBC Bitesize and research more into this topic				
	cyber bullying, predators, sexting,						
	etc. including how to report		Complete an activity on <u>Hour of Code</u>				
	dangers.						
			Watch an episode of <u>BBC Click</u> on the BBC iPlayer				
			Additional Reading for Budding Computer Scientists: <u>Choose a book</u>				
			from this recommended reading list some of which can be found in				
			the department or the library				
Autumn 2	What is a Computer?	MS Forms based end of unit	Minimum homework expectation - to be set on G4S				
	Students understand the	assessment.	Completion of revision activity using Seneca Learning				
	differences between input and	Mixture of Open and Closed					
	output devices including the IPO	questions with an additional	Optional homework tasks and Literacy resources				
	model. Students are able	focus on keywords/literacy	Creation of revision resource (e.g. mind map) to be submitted				
	to recognise the key components		alongside compulsory activity				

Year 7 Curriculum Overview

	that make up a computer and explain their functionality. Students will understand the function of the CPU and its relationship with RAM and the hard drive including the F-D-E cycle. Students will gain an understanding of good learning habits and create a revision resource for their final assessment on this unit.		Complete some Bronze Award badges on the <u>iDEA Award</u> to showcase your digital literacy and employability skills. Once complete you can move to Silver and then Gold certificates Access <u>BBC Bitesize</u> and research more into this topic Complete an activity on <u>Hour of Code</u> Watch an episode of <u>BBC Click</u> on the BBC iPlayer Additional Reading for Budding Computer Scientists: <u>Choose a book</u> <u>from this recommended reading list</u> some of which can be found in the department or the library
Spring 1	Computer Networks Students are able to recognise the different types of computer networks (WAN/LAN) including their topologies and explain where they are used. Students learn about how the internet works including packet switching. Students will understand the security risks (viruses/malware/etc.) of using computes including prevention measures.	MS Forms based end of unit assessment. Mixture of Open and Closed questions with an additional focus on keywords/literacy	Minimum homework expectation - to be set on G4S Completion of revision activity using Seneca LearningOptional homework tasks and Literacy resources Creation of revision resource (e.g. mind map) to be submitted alongside compulsory activityComplete some Bronze Award badges on the iDEA Award to showcase your digital literacy and employability skills. Once complete you can move to Silver and then Gold certificatesAccess BBC Bitesize Complete an activity on Hour of Code Watch an episode of BBC Click on the BBC iPlayer

			Additional Reading for Budding Computer Scientists: <u>Choose a book</u> <u>from this recommended reading list</u> some of which can be found in the department or the library
Spring 2	Data Students gain an understanding of data and binary. Students understand how to decode denary to binary, convert them to letters using ASCII.	MS Forms based end of unit assessment. Mixture of Open and Closed questions with an additional focus on keywords/literacy/numeracy	Minimum homework expectation - to be set on G4S Completion of revision activity using Seneca LearningOptional homework tasks and Literacy resources Creation of revision resource (e.g. mind map) to be submitted alongside compulsory activityComplete some Bronze Award badges on the iDEA Award to showcase your digital literacy and employability skills. Once complete you can move to Silver and then Gold certificatesAccess BBC Bitesize Watch an episode of BBC Click on the BBC iPlayerAdditional Reading for Budding Computer Scientists: Choose a book from this recommended reading list some of which can be found in the department or the library
Summer 1	HTML Programming - Web Page Students will learn how to create a simple webpage using html including body, tags and head. Students will understand how to format text and page backgrounds whilst learning how to insert images and hyperlinks.	MS Forms based end of unit assessment. Mixture of Open and Closed questions with an additional focus on keywords/literacy/numeracy	Minimum homework expectation - to be set on G4S Completion of revision activity using Seneca Learning Optional homework tasks and Literacy resources Creation of revision resource (e.g. mind map) to be submitted alongside compulsory activity

			Complete some Bronze Award badges on the <u>iDEA Award</u> to showcase your digital literacy and employability skills. Once complete you can move to Silver and then Gold certificates Access <u>BBC Bitesize</u> and research more into this topic Complete an activity on <u>Hour of Code</u> Watch an episode of <u>BBC Click</u> on the BBC iPlayer Additional Reading for Budding Computer Scientists: <u>Choose a book</u> <u>from this recommended reading list</u> some of which can be found in the department or the library
Summer 2	Block Programming with Microbits Students gain an introduction to algorithms and understand the need for precision in framing instructions. Students will gain an introduction to block based programming	Verbal teacher feedback on production of working Microbit activities. Recognition and rewards for additional activities completed beyond the classroom.	<ul> <li>Minimum homework expectation - to be set on G4S</li> <li>Access <u>Make Code</u> and complete an additional Microbit activity</li> <li>Optional homework tasks and Literacy resources</li> <li>Creation of revision resource (e.g. mind map) to be submitted alongside compulsory activity</li> <li>Complete some Bronze Award badges on the <u>iDEA Award</u> to showcase your digital literacy and employability skills. Once complete you can move to Silver and then Gold certificates</li> <li>Complete an activity on <u>Hour of Code</u></li> <li>Watch an episode of <u>BBC Click</u> on the BBC iPlayer</li> <li>Additional Reading for Budding Computer Scientists: <u>Choose a book</u> from this recommended reading list some of which can be found in the department or the library</li> </ul>