Corby Business Academy



Year 9 - Computer Science - Term 6 - Curriculum Overview

Hardware and software and computational thinking - Searching and sorting algorithms and logic			
Week Commencing	Learning	Assignment completion	
1 st June	 I will understand why sorting algorithms are needed I will understand that there are a number of different sorting algorithms I will be able to explain how a bubble sorting 	The lesson content and resources are all online here: https://www.teach-ict.com/2016/ks3/sows/sow11/s lesson1.php Students download a worksheet with questions then use the website to find the answers and the submit it through teams.	
8 th June	algorithm works I will be able to complete a flowchart showing a bubble sort algorithm I will be able to describe a bucket sort I will be able to	The lesson content and resources are all online here: https://www.teach-ict.com/2016/ks3/sows/sow11/s_lesson2.php Students download a worksheet with questions then use the website to find the answers and the submit it through teams.	
15 th June	describe an insertion sort I will understand	Students have a choice of three	
	that there are different searching algorithms I will be able to explain how a linear search algorithm works I will be able to explain how a binary search algorithm works	computational challenges increasing in difficulty. They need to create a flowchart for one of the algorithms they have learnt about in this topic then submit it on teams.	
22 nd June	I will understand what is meant by Boolean logic I will be able to use binary numbers to represent Boolean logic I will understand how to complete a truth table for AND	The lesson content and resources are all online here: https://www.teach-ict.com/2016/ks3/sows/sow4/s lesson1.php Students download a worksheet with questions then use the website to find the answers and the submit it through teams	

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	 I will recognise an AND logic gate 	
29 th June	 I will understand how to complete a truth table for OR and NOT logic I will be recognise an OR and NOT logic gate I will be able to combine different logic gates and write their corresponding truth tables 	The lesson content is online here: https://www.teach-ict.com/2016/ks3/sows/sow4/s lesson2.php Students have to complete a challenge based on the learning from the previous lesson. They complete the challenge on a word document and submit through teams.
6 th July	 I can solve computational problems 	Students will be given a selection of 'hour of code' activities to choose from and will submit the certificate awarded on completion via teams.
13 th July	 I can solve computational problems 	Students will be given a selection of 'hour of code' activities to choose from and will submit the certificate awarded on completion via teams.