

Computer Science Long Term Plan Year 7 2021-22

Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study				Getting Started				
Core Learning				Objectives: Identify strong passwords Organise files in folders Content: Login/Password File management		Objectives: Create, save and open documents Send (and reply to) to an email Content: Using Emails		
Opportunities for Challenge				Use of BCC/Forward				
Assessment				Questioning / Task completion		Questioning / Task completion		

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	Block programming – Scratch Maze Game						
Core Learning	Objectives: Recall and use simple commands Sequence instructions Content: Background and sprites Controlling sprite movement (events, sequences, loops).		Objectives: Recall and use a variety of commands Use conditional statements Content: Detecting collisions (conditional statements) Adding scoring / lives (variables)		Objectives: Identify and resolve errors Evaluate solutions Content: Functions / procedures Peer Review / Improvements		
Opportunities for Challenge	Tricky game idea Random movements		Complex conditions Using lists		"Funky functions"		
Assessment	Questioning / Task completion		Questioning / Task completion		Socrative Test		

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Justice Term

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM
Area of Study	Computer Basics						
Core Learning	<u>Objectives:</u> Identify a range of input and output devices Describe the function of range of devices <u>Content:</u> Input & output devices		<u>Objectives:</u> Identify components in a computer Describe the function of internal components <u>Content:</u> Internal parts of a computer		<u>Objectives:</u> Convert binary numbers to integers Describe types of computer networks <u>Content:</u> Representing data (numbers) Computer Networks (LAN & WAN)		
Opportunities for Challenge	Less common devices		Additional components		Topologies		
Assessment	Questioning / Task completion		Questioning / Task completion		Socratic Test		

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	HALF TERM
Area of Study	Spreadsheet Modelling – Vending Machine Project						
Core Learning	<u>Objectives:</u> Identify different datatypes Format spreadsheets effectively <u>Content:</u> Datatypes and entry Formatting data		<u>Objectives:</u> Perform simple spreadsheet calculations Perform more complex spreadsheet calculations <u>Content:</u> Spreadsheet calculations		<u>Objectives:</u> Create graphs Display data using an appropriate graph type <u>Content:</u> Charts and Graphs		
Opportunities for Challenge	Formatting for accessibility		Absolute cell references and additional functions		Customising graphs		
Assessment	Questioning / Task completion		Questioning / Task completion		Socratic Test		