Computing Medium Term Planning
Year: 6

DL – Digital Literacy

IT – Information Technology

CS – Computer Science

Term	Main Computing Theme	Sub Questions / Key Knowledge	Subject Specific Vocabulary	Software / Resources
Autumn 1 	**DL – Computer Systems and Networks – Communication and Collaboration**	**What is the importance of internet addresses?** **How is data transferred across the internet?** **How can sharing information online help people work together?** **What are different ways of working together online?** **How can we communicate using technology?** **What different methods are there of online communication?** I know the importance of internet addresses. I know data is transferred across the internet. I know sharing information online can help people to work together. I know different ways of working together online. I know we communicate using technology. I know about different methods of online communication.	Responsible Phishing Virus Anonymity verify	Google Chrome
Autumn 2 	**IT - Fake News/ Blogging – Green screen**	**What keyboard shortcuts are effective?** **What is the purpose of the snipping tool?** I know keyboard shortcuts work efficiently. I know the snipping tools purpose.	Blogging Fake Inauthentic Scams dopamine	Snipping Tool
Spring 1 	**IT – Excel**	**What keyboard shortcuts are effective?** **What is the purpose of the snipping tool?** **What is the format of cells?** **How can simple graphs be created from inputted data?** **How can data be filtered and sorted?** I know keyboard shortcuts work efficiently. I know the snipping tools purpose.	Filter Sort Format cells	Microsoft Excel

Assessment will be based on a formative approach of children being able to answer the key questions using the knowledge acquired over the half term through a quiz-based approach.

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		I know the format of cells. I know simple graphs can be created from inputted data I know data can be filtered and sorted.			
Spring 2 	**CS – Microbits**	**What is a radio signal?** **How does hardware communicate through radio signals?** **What are variables used for?** **What are 'selection' blocks needed for?** **How can sensors be utilised when using hardware?** I know what a radio signal is. I know hardware can communicate through radio signals. I know that hardware uses variables (Called ID's) to communicate. I can use 'selection' blocks to complete a project using hardware. I know the practical uses for a range of sensors for hardware.	Radio signal ID's Sensors LED's PIN GND antenna	Microbit – Coding Microsoft MakeCode for micro:bit (microbit.org)	
Summer 1 	**CS - Vex VR**	**What is a simulation?** **What is virtual reality?** **What can a simulation evaluate?** **What do nested loops do?** **What do selection codes do?** **How can you use selection codes?** I know what a simulation is. I know what virtual reality is. I know what a simulation can evaluate.	Simulation Virtual reality Nested loops Selection codes	VEX VR - VEXcode VR VEX Activities - VEXcode VR Activities	

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		I know that nested loops create more efficient complex programs. I know what selection (If then) code does and how it can be utilised.			
Summer 2 	**CS - Vex Robotics**	**What does each part of a robot do?** **How do you code each controller?** **How can you upload code to the robot?** **What are the strategies needed to complete a set goal?** I know what each part of the robot does. I know that each controller input can be coded separately. I know that code can be uploaded to the robot efficiently. I know of a range of strategies to complete a set goal.	Controller Upload Variable	VEX Robotics kit VEX Robotics field	