

KEVICC KS3 Curriculum:	Subject: Computer Science	Key terms and vocabulary.
Year: 9 Term: 5	Topic: Computer Networks	Which words will be explicitly taught & how frequently will understanding be checked? How will assimilation of new vocab be checked?
<p>What is the essential knowledge from this unit? What do students need to remember and understand?</p> <ul style="list-style-type: none"> • Be able to describe what a computer network is • Be able to describe the pros and cons of computer networks • Be able to name and describe equipment needed to create computer networks • Understand the differences between wired and wireless networks • Understand the differences between personal, local and wide area networks • Be able to describe the star and bus network topologies • Be able to describe the pros and cons of star and bus topologies • Understand the importance of keeping a network secure • Be able to describe how each of these help to keep networks are kept secure: <ul style="list-style-type: none"> • User Authentication • Firewall • Encryption • MAC Address filtering • Understand how network operation can be broken down into four layers • Be able to name, describe and sequence the four layers • Understand what is meant by the term network protocol • Be able to identify the correct protocol for a particular purpose 		<p>Network Hub Switch Ethernet Fibre-optic Server Router Wireless access point Personal area network Local area network Wide area network Topology Star topology Bus topology Backbone Terminator Authentication Firewall Encryption MAC address Application layer Transport layer Network layer Data link layer Protocol</p> <p>Used in context during lessons and understanding checked in end of unit assessment</p>
<p>What prior learning supports understanding of this content?</p> <ul style="list-style-type: none"> • Year 8 unit on Computer Networks 	<p>How does this content link to future learning?</p> <ul style="list-style-type: none"> • Essential learning for students going on to take GCSE Computer Science course 	
<p>Reading: <i>Where in the unit are students supported to read complex academic text?</i></p> <ul style="list-style-type: none"> • Students will be directed to read age-appropriate content from BBC Bitesize pages and other relevant online sources 	<p>Writing: <i>Independent writing tasks and how they are structured</i></p> <ul style="list-style-type: none"> • Short written answers to worksheet questions • Extended written descriptions using key words as prompts 	
<p>Key assessments: <i>How will students review the information learned?</i> <i>How will feedback be seen?</i></p> <ul style="list-style-type: none"> • Students will get short personalised feedback (mainly verbal) on individual tasks • End of unit assessment in penultimate lesson, with final lesson used to give feedback and enable corrections/improvements 		