

KEVICC KS3 Curriculum:	Subject: Computing	Key terms and vocabulary.
Year: 8 Term: 5	Topic: Data Storage and Networks	<i>Which words will be explicitly taught & how frequently will understanding be checked? How will assimilation of new vocab be checked?</i>
<p>What is the essential knowledge from this unit? What do students need to remember and understand?</p> <ul style="list-style-type: none"> Understand the term 'storage capacity' and how this is measured Be able to identify different storage media and their maximum capacities Understand the term 'cloud storage' and describe its advantages and disadvantages Be able to name and describe different ways in which data is stored on computers Be able to compare the different ways and what they are used for Be able to recommend a data storage method for a particular situation Understand ways in which data might be stored on computers in the future Understand what a computer network is and why they are used Be able to identify the benefits and risks of setting up and using computer networks Be able to name and describe networks of different size (PAN, LAN and WAN) Understand what is meant by a network topology Be able to name and describe two different network topologies be able to identify the pros and cons of these network topologies Understand the importance of keeping data on a network secure Be able to name and describe different methods of network security (Authentication, Encryption, Firewalls, MAC Address filtering) Understand how each of these methods works to protect data on a network 		<p>Data storage Capacity Device Cloud storage Magnetic Optical Solid state Network Personal Area Network Local Area Network Wide Area Network Topology Star Bus Node Hub/Switch Server Terminator Authentication Encryption Firewall MAC address filtering White list Black list</p>
<p>What prior learning supports understanding of this content?</p> <ul style="list-style-type: none"> Year 7 lessons on Internet and WWW and components inside a computer 	<p>How does this content link to future learning?</p> <ul style="list-style-type: none"> Year 9 units on Computer Systems and Computer Networks 	
<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 	<p>Used in context during lessons and understanding checked in end of unit assessment</p>
<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 		