

Year 11 Curriculum Overview Plan: Digital Information Technology

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><u>Key Theme:</u> Revision for Component 3 exam - Learning aim A (modern technologies) and Learning aim B (cyber security)</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> -Ad hoc networks - Cloud computing - Collaborative working - Disaster recovery policies - Internal threats - External threats - Why systems are attacked - Impacts of a security breach</p>	<p><u>Key Theme:</u> Revision for Component 3 exam - Learning aim C (The wider implications of digital systems) and Learning aim D (forms of notation)</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> - Password policy - Disaster recovery policy - Acceptable use policy -Software policy -Environmental issues - Flowcharts -Information flow diagrams</p>	<p><u>Key Theme:</u> Exam preparation</p> <p>Revision for Component 3</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> -Ad hoc networks - Cloud computing - Collaborative working - Disaster recovery policies - Internal threats - External threats - Why systems are attacked - Impacts of a security breach - User access restrictions</p>	<p><u>Key Theme:</u> Revision for Component 3 exam - Learning aim A (modern technologies) and Learning aim B (cyber security)</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> -Ad hoc networks - Cloud computing - Collaborative working - Disaster recovery policies - Internal threats - External threats - Why systems are attacked - Impacts of a security breach</p>	<p><u>Key Theme:</u> Revision for Component 3 exam - Learning aim C (The wider implications of digital systems) and Learning aim D (forms of notation)</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> - Password policy - Disaster recovery policy - Acceptable use policy -Software policy -Environmental issues - Flowcharts -Information flow diagrams</p>	<p><u>Key Theme:</u> Exam preparation</p> <p>Revision for Component 3</p> <p><u>Key Concepts, Knowledge & Skills to be Embedded:</u> -Ad hoc networks - Cloud computing - Collaborative working - Disaster recovery policies - Internal threats - External threats - Why systems are attacked - Impacts of a security breach - User access restrictions</p>

<p>- User access restrictions - Backup recovery and encryption</p> <p><u>Links to Prior Learning:</u> Ad hoc networks, external threats and cloud computing taught across KS3.</p> <p><u>Key Assessment Pieces:</u></p> <p><u>Feb 2022</u> - Component 3 exam - 1.5 hours written paper</p> <p><u>Tier 3 Vocabulary Vault:</u> Network Ad-hoc Cloud Remote</p>	<p>-Tables</p> <p><u>Links to Prior Learning:</u> Flowcharts covered at KS3 in programming units. Password policy taught at KS3 in Y7.</p> <p><u>Key Assessment Pieces:</u> Mock exam - Nov 2022 - 1.5 written exam</p> <p><u>Tier 3 Vocabulary Vault:</u> -data -manipulation -Malware -Virus -Trojan -Hacker -Man in the middle - Phishing</p>	<p>- Backup recovery and encryption - Password policy - Disaster recovery policy - Acceptable use policy -Software policy -Environmental issues - Flowcharts -Information flow diagrams -Tables</p> <p><u>Links to Prior Learning:</u> Multiple topics covered at KS3 including threats to computers, flowcharts, accessibility features, data protection act and password policy.</p>	<p>- User access restrictions - Backup recovery and encryption</p> <p><u>Links to Prior Learning:</u> Ad hoc networks, external threats and cloud computing taught across KS3.</p> <p><u>Key Assessment Pieces:</u></p> <p><u>March 2022</u> - Mock exam - 1.5 hours</p> <p><u>Tier 3 Vocabulary Vault:</u> Network Ad-hoc Cloud Remote Storage</p>	<p>-Tables</p> <p><u>Links to Prior Learning:</u> Flowcharts covered at KS3 in programming units. Password policy taught at KS3 in Y7.</p> <p><u>Key Assessment Pieces:</u> Practice test May 2022</p> <p><u>Tier 3 Vocabulary Vault:</u> -data -manipulation -Malware -Virus -Trojan -Hacker -Man in the middle</p>	<p>- Backup recovery and encryption - Password policy - Disaster recovery policy - Acceptable use policy -Software policy -Environmental issues - Flowcharts -Information flow diagrams -Tables</p> <p><u>Links to Prior Learning:</u> Multiple topics covered at KS3 including threats to computers, flowcharts, accessibility features, data protection act and password policy.</p>
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<p>Storage Collaboration Hacker Phishing Pharming Trojan Malware Virus Firewall</p> <p><u>Reading Exposure:</u></p> <p>Component 3 knowledge organiser</p> <p>Revise BTEC Tech Award Digital Information Technology Revision Guide</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u></p> <p>Repetition, Retrieval exercises (DIN's),</p>	<p>-Pharming -Should surfing -Encryption -Firewall -User access restrictions -Biometrics -Password -Environment - Disaster recovery -Server -Software -Data protection act</p> <p><u>Reading Exposure:</u></p> <p>Component 3 knowledge organiser</p> <p>Revise BTEC Tech Award Digital Information Technology Revision Guide</p>	<p><u>Key Assessment Pieces:</u></p> <p>Exam - Feb 2022</p> <p><u>Tier 3 Vocabulary Vault:</u></p> <p>Network Ad-hoc Cloud Remote Storage Collaboration Hacker Phishing Pharming Trojan Malware Virus Firewall -data -manipulation -Malware -Virus -Trojan -Hacker -Man in the middle - Phishing -Pharming</p>	<p>Collaboration Hacker Phishing Pharming Trojan Malware Virus Firewall</p> <p><u>Reading Exposure:</u></p> <p>Component 3 knowledge organiser</p> <p>Revise BTEC Tech Award Digital Information Technology Revision Guide</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u></p> <p>Repetition, Retrieval exercises (DIN's), chunking, low-stakes</p>	<p>- Phishing -Pharming -Should surfing -Encryption -Firewall -User access restrictions -Biometrics -Password -Environment - Disaster recovery -Server -Software -Data protection act</p> <p><u>Reading Exposure:</u></p> <p>Component 3 knowledge organiser</p> <p>Revise BTEC Tech Award Digital Information Technology Revision Guide</p>	<p><u>Tier 3 Vocabulary Vault:</u></p> <p>Network Ad-hoc Cloud Remote Storage Collaboration Hacker Phishing Pharming Trojan Malware Virus Firewall -data -manipulation -Malware -Virus -Trojan -Hacker -Man in the middle - Phishing -Pharming -Should surfing -Encryption -Firewall -User access restrictions</p>
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<p>chunking, low-stakes quizzing, true false, odd one out, false facts, retrieval, interleaving</p>	<p>https://www.bbc.co.uk/bitesize/guides/znxxh39/revision/1</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u> Repetition, Retrieval exercises (DIN's), chunking, low-stakes quizzing, true false, odd one out, false facts, retrieval, interleaving</p>	<ul style="list-style-type: none"> -Should surfing -Encryption -Firewall -User access restrictions -Biometrics -Password -Environment - Disaster recovery -Server -Software -Data protection act <p><u>Reading Exposure:</u> Component 3 knowledge organiser</p> <p>Revise BTEC Tech Award Digital Information Technology Revision Guide</p> <p><u>Strategies to enable new concepts, knowledge & skills</u></p>	<p>quizzing, true false, odd one out, false facts, retrieval, interleaving</p>	<p>https://www.bbc.co.uk/bitesize/guides/znxxh39/revision/1</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u> Repetition, Retrieval exercises (DIN's), chunking, low-stakes quizzing, true false, odd one out, false facts, retrieval, interleaving</p>	<ul style="list-style-type: none"> -Biometrics -Password -Environment - Disaster recovery -Server -Software -Data protection act <p><u>Reading Exposure:</u> Component 3 knowledge organiser</p> <p>Revise BTEC Tech Award Digital Information Technology Revision Guide</p> <p><u>Strategies to enable new concepts, knowledge & skills to embed in long-term memory:</u> Repetition, Retrieval exercises (DIN's), chunking, low-stakes quizzing, true false,</p>
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		<p><u>to embed in long-term memory:</u> Repetition, Retrieval exercises (DIN's), chunking, low-stakes quizzing, true false, odd one out, false facts, retrieval, interleaving</p>			<p>odd one out, false facts, retrieval, interleaving</p>
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