



Week	Learning	Activities
<p>Week 1 beginning 1st June</p>	<p><u>Introduction to network security</u></p> <p>Students will need to learn what network security is and why it is important.</p>	<p><u>Activity 1 – online lesson</u></p> <p>Students will complete a workbook using information provided on a lesson found here: www.teach-ict.com/2016/GCSE_Computing/OCR_J276/1_6_network_security/intro_network_security/student_home.html</p> <p>They will then submit the workbook on teams.</p> <p><u>Activity 2 – keywords</u></p> <p>Students will need to match keywords up to definitions from the previous lesson then add these words to a keyword bank in their online notebooks.</p> <p><u>Activity 3 – Review</u></p> <p>An assignment will be set on www.seneca.com to help students revise this topic and to be assessed on what they have learnt.</p>
<p>Week 2 beginning 8th June</p>	<p><u>Network threats</u></p> <p>Students will learn about the following network threats:</p> <ul style="list-style-type: none"> • Malware • Social engineering • Phishing • Brute force • Denial of service • Data interception • SQL injection • Poor network policy 	<p><u>Activity 1 – online lesson</u></p> <p>Students will complete a workbook using information provided on a lesson found here: http://www.teach-ict.com/2016/GCSE_Computing/OCR_J276/1_6_network_security/network_threats/student_home.html</p> <p>They will then submit the workbook on teams.</p> <p><u>Activity 2 – keywords</u></p> <p>Students will need to match keywords up to definitions from the previous lesson then add these words to a keyword bank in their online notebooks.</p> <p><u>Activity 3 – Review</u></p> <p>An assignment will be set on www.seneca.com to help students revise this topic and to be assessed on what they have learnt.</p>
<p>Week 3 beginning 15th June</p>	<p><u>Malware</u></p> <p>Students will learn about the following types of malware:</p> <ul style="list-style-type: none"> • Malware • Viruses • Worms • Browser malware 	<p><u>Activity 1 – online lesson</u></p> <p>Students will complete a workbook using information provided on a lesson found here: http://www.teach-ict.com/2016/GCSE_Computing/OCR_J276/1_6_network_security/malware/home_malware.html</p> <p>They will then submit the workbook on teams.</p> <p><u>Activity 2 – keywords</u></p> <p>Students will need to match keywords up to definitions from the previous lesson then add these words to a keyword bank in their online notebooks.</p>



		<p>Activity 3 – Review</p> <p>An assignment will be set on www.seneca.com to help students revise this topic and to be assessed on what they have learnt.</p>
<p>Week 4 beginning 22nd June</p>	<p>Preventing vulnerabilities</p> <p>Students will learn about the following ways to prevent network attacks:</p> <ul style="list-style-type: none"> • User access rights • Passwords • Network policy • Acceptable use policy • Backups • Disaster recovery • Network forensics • Anti-malware • Firewall • Penetration testing • Encryption 	<p>Activity 1 – online lesson</p> <p>Students will complete a workbook using information provided here: http://www.teach-ict.com/2016/GCSE_Computing/OCR_J276/1_6_network_security/preventing_vulnerabilities/miniweb/index.php</p> <p>They will then submit the workbook on teams.</p> <p>Activity 2 – keywords</p> <p>Students will need to match keywords up to definitions from the previous lesson then add these words to a keyword bank in their online notebooks.</p> <p>Activity 3 – Review</p> <p>An assignment will be set on www.seneca.com to help students revise this topic and to be assessed on what they have learnt.</p>
<p>Week 5 beginning 29th June</p>	<p>End of topic revision and assessment</p> <p>Students will review what they have learnt on this topic this term</p>	<p>Students will be asked to watch a series of podcasts using www.gcsepod.com and then will be assessed with a series of multiple choice questions.</p>
<p>Week 6 beginning 6th July</p>	<p>Programming</p> <p>Students will be set of programming challenges to refresh their programming skills and prepare them for the algorithm questions in paper 2.</p>	<p>Students will be given a broad range of different algorithm challenges to choose from (https://www.ocr.org.uk/Images/260930-coding-challenges-booklet.pdf) . They will need to select 3 throughout the week choosing an appropriate challenge for their ability. For each one they will complete a flowchart, pseudocode and a python program and submit this for feedback via teams.</p>
<p>Week 7 beginning 13th July</p>	<p>End of year revision</p> <p>Students will be given tasks and resources to review the topics learnt throughout year 10.</p>	<p>Students will be given a revision list of all topics taught in year 10 and will need to self assess their understanding of each topic. They will then be directed to a selection of resources they can use to address gaps in knowledge during this lesson and over the summer holidays.</p>