

Key Stage 3 Curriculum Map 2020-21

Term 3

Year Group: 9	Subject: Computing		
Focus/Topic	Objectives	Key Skills/ UAE Links	Home Learning/ Recommended Reading
<ul style="list-style-type: none"> • Cryptography - Decrypting the Caesar Cipher 	<ul style="list-style-type: none"> • “Build a decryption tool for a Caesar Cipher” 	<ul style="list-style-type: none"> • Decrypting data <i>ANALYSING-Precision</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • Cryptography - Importance of Cryptography 	<ul style="list-style-type: none"> • “Appraise the advantages and disadvantages of encryption” 	<ul style="list-style-type: none"> • Public Key Cryptography Pros and Cons of Cryptography <i>ANALYSING-Precision</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • Cryptography – assessment 			
<ul style="list-style-type: none"> • GCSE preparations • Esafety – Social engineering 	<ul style="list-style-type: none"> • Explain and identify social engineering techniques 	<ul style="list-style-type: none"> • Applanation of safely <i>AGILE- Open minded</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • GCSE preparations • Esafety – Ensuring security 	<ul style="list-style-type: none"> • Ability to describe how to protect yourself and your data while online 	<ul style="list-style-type: none"> • Prevention techniques <i>META-THINKING-Self regulation</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • GCSE preparations • Binary 	<ul style="list-style-type: none"> • Ability to covert between binary and decimal • Demonstrate basic binary arithmetic 	<ul style="list-style-type: none"> • Conversions and basic arithmetic <i>ANALYSING-Precision</i> <i>ANALYSING-Precision</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • GCSE preparations • Compression 	<ul style="list-style-type: none"> • Understanding compressions and the difference between lossy and lossless 	<ul style="list-style-type: none"> <i>LINKING- Connection finding</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • GCSE preparations • Network topologies 	<ul style="list-style-type: none"> • Advantages and disadvantages of various network topologies 	<ul style="list-style-type: none"> • Ability to draw topologies • Ability to debate both side of an argument <i>ANALYSING-Precision</i> 	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams

<ul style="list-style-type: none"> • GCSE preparations • Protocols 	<ul style="list-style-type: none"> • Understanding basic network protocols 	<p><i>ANALYSING-Precision</i> <i>AGILE- Enquiring</i></p>	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • GCSE preparations • Wi-Fi vs ethernet 	<ul style="list-style-type: none"> • Understanding the differences between Wi-Fi and Ethernet • Explain some advantages and disadvantages of each 	<ul style="list-style-type: none"> • Ability to debate both side of an argument <p><i>ANALYSING-Precision</i></p>	<ul style="list-style-type: none"> • Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • Assessments and final preparation for year 10 			
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<p>Summer Break</p>			