KEVICC KS3 Curriculum:	Subject: Computing	Key terms and vocabulary.
Year: 7 Term: 6	Topic: Cryptography	

What is the essential knowledge from this unit? *What do students need to remember and understand?*

- Understand the concept and purpose of cryptography
- Be able to describe the terms plain text, cipher text and cipher key
- Be able to use the Caesar Cipher to encrypt and decrypt messages
- Understand why the Caesar Cipher is so easy to crack
- Be able to use frequency analysis to crack secret messages
- Be able to complete computer programs to crack secret messages
- Understand how Polyalphabetical ciphers improve the Caesar Cipher
- Understand how to crack Polyalphabetical ciphers
- Understand the concept on an unbreakable cipher
- Be able to use a rail fence cipher
- Be able to use a transposition cipher
- Understand the concept of steganography to hide secret messages

Cryptography
Plain text
Cipher text
Cipher key
Caesar Cipher
Frequency analysis
Polyalphabetical
           cipher
Rail fence cipher
Transposition cipher
Steganography

Used in context during lessons and understanding checked in end of unit assessment

What prior learning supports understanding of this content?
- Students will use programming skills from unit earlier in the year

How does this content link to future learning?
- Year 8 unit on networks will show use of cryptography in keeping data secure

Reading: *Where in the unit are students supported to read complex academic text?*
- Students will be directed to read age-appropriate content from BBC Bitesize pages and other relevant online sources

Writing: *Independent writing tasks and how they are structured*
- Students will write full sentence answers each lesson to worksheet questions

Key assessments:
How will students review the information learned?
How will feedback be seen?

- 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