**Year 9 Computing & ICT Assessment – Spring Term**

*Units: Encryption, Rhymes & Chimes*

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|  | Mastery | KS2 L5 | KS2 L4 | KS2 L3 |
| **Knowledge** | I can:* Describe a wide range of programming techniques and constructs
* Describe the importance and impact of a wide range of advanced media editing techniques
 | I can:* Explain how algorithms are used to explain a variety of tasks
* Use technical language to justify my use of video and sound editing techniques
 | I can:* Explain what is meant by the ‘Caesar Cipher’
* Explain why some techniques are used in video and sound editing
 | I can:* Understand what is meant by ‘encryption’
* Name some techniques used in video and sound editing
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| **Skills** | IT Skills:* Use version management to ensure that I can avoid any loss of work

Media Skills:* Use a range of advanced tools to create media products that are effective and professional

Computing Skills:* Independently create computer programs to solve a range of real-world problems
 | IT Skills:* Consistently use file and folder names to organise my work logically

Media Skills:* Use advanced video editing tools such as picture in picture, filters and effects

Computing Skills:* Use sequencing, selection and iteration to create a functioning computer program that solves a problem
* Independently develop algorithms to solve a problem
 | IT Skills:* Use file and folder names to organise my work in a logical manner

Media Skills:* Use media editing tools such as titles, transitions and envelope
* Use multiple tracks

Computing Skills:* Create sequences of instructions to solve a problem using software tools
 | IT Skills:* Use meaningful filenames
* Use formatting tools to create consistent documents

Media Skills:* Import media clips into video and audio editing software
* Use basic cutting tools in media software

Computing Skills:* Follow and describe a manual algorithm
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| **Application** | * Create a range of media products using a consistent style that are expertly matched to their audience
* Develop a computer program to carry out effective encryption and decryption of data using an algorithm other than the Caser Cipher
 | * Plan and produce effective video and audio products that are fit for purpose
* Create a fully functioning computer program for processing data using Python
 | * Create a video and an audio advert that fulfil a brief
* Create an automated system for encrypting or decrypting messages
 | * Create a video and/or audio advert
* Carry out encryption and decryption of messages
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