**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 |
| **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 |
| **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 |