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

*Units: Algorithms, Wouldn’t It Be great*

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|  | Mastery | KS2 L5 | KS2 L4 | KS2 L3 |
| **Knowledge** | I can:   * Describe a wide range of algorithms for different purposes * Consider the impact of technological development across a range of sectors including employment, legislation, quality of life & environmental factors | I can:   * Explain how to carry out 2 different algorithms for searching or sorting * Discuss potential consequences of increased technology | I can:   * Know the names of 2 standard algorithms and their purpose * Describe one area of technological development | I can:   * Understand what is meant by the word ‘algorithm’ * Know about one area of current technology |
| **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:   * Implement algorithms using text based languages | IT Skills:   * Consistently use file and folder names to organise my work logically   Media Skills:   * Plan, create and present using a wide range of effective tools   Computing Skills:   * Choose and justify appropriate algorithms for specific purposes | IT Skills:   * Use file and folder names to organise my work in a logical manner   Media Skills:   * Make use of transitions, animations and other presentation tools effectively   Computing Skills:   * Compare the efficiency of 2 or more algorithms | IT Skills:   * Use meaningful filenames * Use formatting tools to create consistent documents   Media Skills:   * Create presentations that use a range of images, text and consistent styles   Computing Skills:   * Follow and describe a manual algorithm |
| **Application** | * Produce a concise explanation for a wide range of algorithms including those you have researched independently * Demonstrate insight and a thorough understanding of technology and its impact through a range of media | * Produce a detailed, accurate and appropriate explanation for how algorithms are used online * Design, research and create a range of materials to convince and persuade an audience | * Produce an explanation for others on how algorithms are used online * Create an effective presentation about new technologies that is suitable for audience and purpose | * Use algorithms to sort or search a list of items * Create a presentation about a potential new technology |