**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
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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:* 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
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| **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
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