We are representing 'text' in binary numbers				
SOLO LEVEL	One	Many	Relate	Extend
SOLO VERB	*Identify isolated skills*	*Describe and combine serial skills*	*Integrate skills*	*Evaluate skills*
DECLARATIVE KNOWLEDGE Knowing about (talking or writing about) binary numbers Representing 'text' in binary numbers Success criteria	I can **IDENTIFY** **…** the use of 0 and 1 in binary digits For example: ☐ binary digits up to 8 bits ☐ using binary cards to make a binary digit to show ON/OFF state	I can **DESCRIBE** … the use of representing binary numbers and counting in binary when converting binary digits to decimal numbers … the use of binary digits and a table of characters when encoding messages. For example: ☐ using a table with headings 1, 2, 4, 8, 16, etc to write binary numbers and their decimal equivalent ☐ writing dates and other everyday numbered information in binary ☐ referring to a binary character table to encode a message	… AND I can **EXPLAIN** how binary digits are used to represent text and how to convert between binary digits and decimal numbers I can **ANALYSE** information for relevance and give reasons for inclusion in an infographic to explain how binary is used by computers	AND I can **EVALUATE** the effectiveness of my infographic based on: ☐ meeting its intended purpose

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| FUNCTIONING KNOWLEDGE Knowing how to … Representing 'text' in binary numbers Success criteria | I can write a binary digit up to 8 bits | I can independently convert binary digits to decimal numbers BUT I sometimes need support to convert the larger binary digits to the correct decimal number I can encode a word such as my name using a binary character table I can use a spreadsheet made by someone else to convert a binary number to a decimal number | I can independently and confidently convert binary digits to decimal numbers I can independently encode messages using binary following a binary character table I can create my own spreadsheet to convert a binary number based on a sample file I can create an infographic that explains how computers use binary | I can independently create an infographic AND I can seek and act on feedback to improve the infographic |
| Digital technologies Way of thinking | | Computational thinking | Computational thinking | Computational thinking Design thinking |

As learning progresses, it becomes more complex. SOLO stands for the Structure of the Observed Learning Outcome. It is a means of classifying learning outcomes in terms of their complexity. It can help differentiate a task to enable students to operate at their level and provide learning tasks that are progressively more challenging.

For more about SOLO Taxonomy refer to these websites

[John Biggs Solo Taxonomy](#)

[HookED: Solo Taxonomy](#)