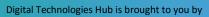
SOLO taxonomy: Representing images using binary (5-6)



We are using an online tool that uses binary numbers to create pixels of different colours. We then design our own image.				
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 representing 1 and 0s as colours) Creating a digital image made up of pixels Success criteria	I can IDENTIFY the use of 0 or 1 in representing the colours black and white For example: in an image made up of black and white pixels	I can DESCRIBE how to make an image made up of black and white pixels how a combination of binary digits is used to represent RGB colours	AND I can EXPLAIN my binary digit choices – when creating an image for a particular purpose such as an avatar for a game or sprite for an animation	AND I can EVALUATE how effectively my image, which is made up of different coloured pixels, meets its functional requirements and intended purpose I can GENERALISE about the effect on file size, comparing my image with one that has more pixels and a bigger range of colours
FUNCTIONING KNOWLEDGE Knowing how to Creating a digital image made up of pixels Success criteria	I can identify numbers on a grid as ones and zeros which represent black (0) or white (1)	I can encode a grid made up of black and white pixels and vary the width and height I can encode a grid using a red, green or blue colours that combine RGB; for example, (1,0,0) to make red or (0,0,1) to make green	I can independently and confidently shade a grid with up to 8 colours by combining binary digits in RGB AND I can debug as I build an image to ensure the correct intended colours are represented	AND I can seek out and act on feedback to improve the effectiveness of my programming choices as I go
Digital technologies Ways of thinking	Computational thinking	Computational thinking	Computational thinking	Computational thinking Design thinking





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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



