SOLO taxonomy: Programming project (3-4)

We are creating a program using a programming blocks				
SOLO LEVEL	**One**	**Many**	**Relate**	**Extend**
SOLO VERB	***Identify and define***	***Combine and perform serial skills***	***Apply and integrate***	***Create and evaluate***
DECLARATIVE KNOWLEDGE Knowing about (talking or writing about) algorithms or the programming code **Success criteria**	*I can define an algorithm as a series of steps* *I can look at a program and identify motion, control and sound blocks and describe what they might do*	*I can describe an algorithm and what each part means and indicate user input and the resulting output or action* *I can read a program of visual blocks and describe what it might do*	*I can explain how to create an algorithm for a task I'm going to program a solution for* *I can explain what a computer program of visual blocks does and show how branching results in different actions or events*	*I can explain how to improve an algorithm for example by adding branching* *I can discuss ways to improve a computer program and suggest ways to debug a program if it is not working as desired*
FUNCTIONING KNOWLEDGE Knowing how to … **Creating an algorithm** **Creating a computer program using a visual programming language** **Success criteria**	I can order steps in the right sequence if I'm given the steps of the task I can identify some visual programming blocks; for example, ones for movement and making sounds	I can describe and follow a series of steps to complete a task I can combine several blocks to create a simple program	I can create an algorithm to describe a task or process I can identify parts of the algorithm where choices are made (branching) and different events or actions result from user input or are sensed from environment I can create a program using visual blocks and include user input and branching to allow for different options	I can create an algorithm for a task and work through it and debug steps that are incorrect I can evaluate my program, seek feedback from others and make changes based on feedback
Digital technologies **Way 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