

We are creating an online game or mobile app						
SOLO LEVEL SOLO VERB	One Identify Isolated Skills	Many Describe, and Combine Serial	Relate Integrate Skills	Extend <i>Evaluate Skills</i>		
		Skills				
DECLARATIVE knowledge (knowing about – talking or writing about the programming code) Create a digital game or app. Success Criteria	I can DEFINE a problem and identify functional requirements such as usability, technical or social constraints/ considerations and data requirements I can IDENTIFY key elements by decomposing the problem. I can IDENTIFY parts of a programming solution that uses a microcontroller	I can DESCRIBE two or three different design ideas and in detail discuss: the 'user experience' the instructions to operate the solution	 AND I can EXPLAIN my programming choices – that involve branching (where decisions by the user are enabled), iteration (where loops and repeat functions have reduced the script length and detail) other functions for example the use of variables. I can EXPLAIN the syntax of the particular programming language required to code the programming board 	 AND I can EVALUATE the effectiveness of mine and other's digital solutions in meeting its functional requirements by explaining: how well it meets its intended purpose how the solution met one functional requirement and one constraint. 		









FUNCTIONING knowledge (knowing how to) Create a digital solution using visual programing language. Success Criteria	I can interpret an algorithm presented as a flow chart and follow the steps I can use a visual programming language or a general purpose programming language IF I copy programming examples created by someone else such as a sketch of an Arduino program.	I can use functional requirements to create an algorithm that I use to plan out a program for a digital solution. I can create a paper-prototype of my design to show screen transitions I can independently program a digital solution using a visual programming language BUT I am still not confident to program using a general purpose programming language	I can independently and confidently create a digital solution that incorporates a microcontroller and use a general programming language AND I can debug as I build. (correct my own code)	AND I can create a 60 sec video to pitch my innovative design
Digital Technologies Way Of Thinking	Design thinking	Computational thinking Design thinking	Computational thinking	Systems 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



