

SOLO taxonomy: Problem-solving processes (5-6)

We are creating an online game

SOLO LEVEL	One	Many	Relate	Extend
SOLO VERB	<i>Identify isolated skills</i>	<i>Describe and combine serial skills</i>	<i>Integrate skills</i>	<i>Evaluate skills</i>
<p>DECLARATIVE KNOWLEDGE Knowing about (talking or writing about) the programming code</p> <p>Creating a digital solution using visual programming language</p> <p>Success criteria</p>	<p>I can DEFINE a problem identifying functional and data requirements</p> <p>I can IDENTIFY</p> <p>... the use of isolated visual programming skills when programming</p> <p>For example, the use of:</p> <ul style="list-style-type: none"> <input type="checkbox"/> an if/then statement <input type="checkbox"/> loops or repetition <input type="checkbox"/> user input 	<p>I can DESCRIBE</p> <p>... the use of isolated and combined visual programming skills when programming</p> <p>For example, the use of loops when:</p> <ul style="list-style-type: none"> <input type="checkbox"/> incorporating repeat instructions <input type="checkbox"/> allowing for varied user input <input type="checkbox"/> selecting options (for example, in a quiz) 	<p>AND I can EXPLAIN my programming choices – when programming a digital solution such as an animation, quiz, choose your own adventure story or controlling a robotic device</p>	<p>AND I can EVALUATE the effectiveness of my digital solution in meeting its functional requirements for:</p> <ul style="list-style-type: none"> <input type="checkbox"/> meeting its intended purpose <input type="checkbox"/> user input.
<p>FUNCTIONING KNOWLEDGE Knowing how to ...</p> <p>Creating a digital solution using visual</p>	<p>I can interpret an algorithm presented as a flow chart</p>	<p>I can create an algorithm that I use to plan out a program for a digital solution.</p>	<p>I can independently and confidently create a digital solution using a visual programming language</p>	<p>AND I can seek and act on feedback to improve the effectiveness of my programming choices as I go.</p>

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programming language Success criteria	I can use a visual programming language IF I copy programming examples created by someone else	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 not sure about my programming and I struggle to debug any errors that occur	AND I can debug as I build (correct my own code)	
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](#)



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