

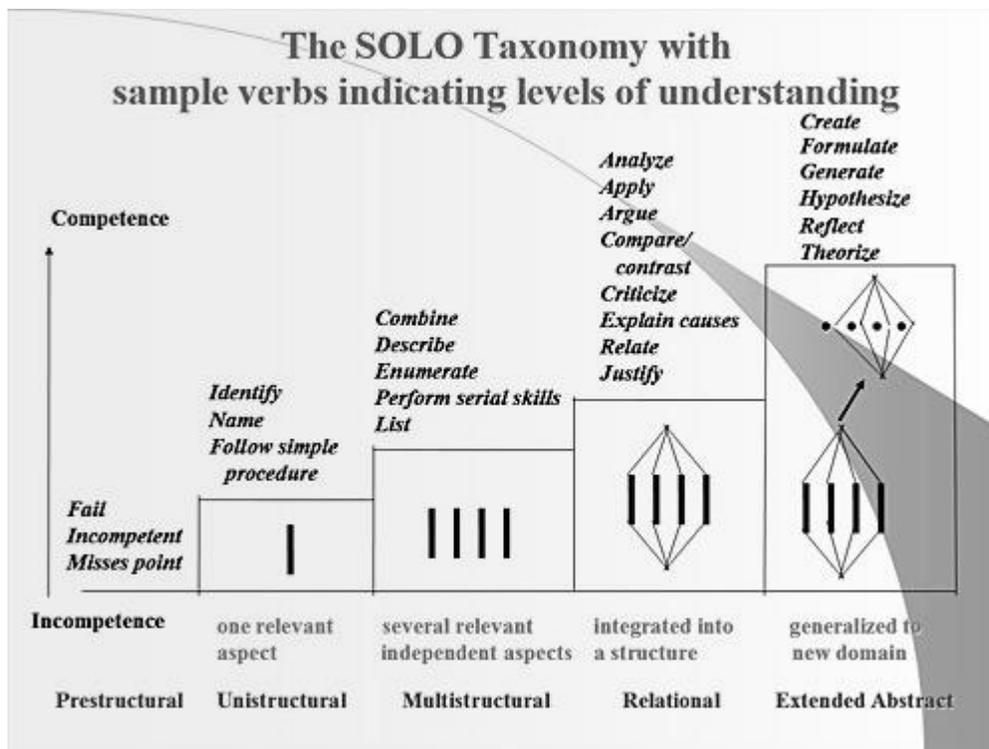
SOLO TAXONOMY

What is the SOLO Taxonomy?

SOLO Taxonomy (Structure of Observed Learning Outcomes) provides a model for different levels of understanding, including surface, deep and conceptual (Biggs and Collis 1982).

SOLO Taxonomy supports teachers to classify learning outcomes in terms of their complexity, enabling teachers to assess students' work in terms of its *quality and depth* as opposed to the *quantity* of items achieved.

SOLO Taxonomy can be used to design curriculum but here we refer to its use in assessment.



(image: <http://www.johnbiggs.com.au/academic/solo-taxonomy>)

HookED describe SOLO levels in the following ways:

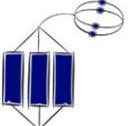
- **Prestructural:** The task is inappropriately attempted. The student requires help or has misunderstood.
- **Unistructural:** One aspect of the task is achieved, but student understanding is disconnected and limited.
- **Multistructural:** Several aspects of the task are achieved but their relationships as a whole are not fully realised.
- **Relational:** Aspects of the task are linked and integrated and contributed to a deeper understanding as a whole.

- **Extended Abstract:** New understanding at the previous relational level is re-thought at another conceptual level and in a new way, and is the basis for prediction, generalisation, reflection, or creation of new understanding.

Example of SOLO Taxonomy Rubric for Digital Technologies

The Digital Technologies Hub adopts Bloom’s Taxonomy as a framework for unpacking assessment approaches by looking at the verb in achievement standards. Similarly, this same approach can be used to generate rubrics with SOLO Taxonomy.

In the example below, we have generated a rubric for the following Year 5-6 statement of achievement: *“Incorporate decision-making, repetition and user interface design into their designs and implement their digital solutions, including a visual program”*.

 Incorporate: decision-making, repetition and user interface design into their designs and implement their digital solutions, including a visual program.					
					
<p>Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program.</p>	<p>I need help to Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program.</p>	<p>I can Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program. if I am prompted or directed.</p>	<p>I use several strategies to Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program. but I am not sure when and or why to use them.</p> <p><i>(trial and error – aware of strategies but not sure why or when to use them so makes mistakes)</i></p>	<p>I use several strategies to Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program. and I know when and why to use them.</p> <p><i>(strategic or purposeful use of strategies – knows why and when).</i></p>	<p>I use several strategies to Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program. and I know when and why to use them.</p> <p>I can teach others to Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program.</p> <p>I act as a role model for others to help them Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program.</p> <p>I seek feedback on how to improve how I can Incorporate decision-making, repetition and user interface design into their designs and Implement their digital solutions, including a visual program. .</p>
<p>Effective Strategies <i>[insert strategies suggested by students and teachers]</i></p>					

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The SOLO Taxonomy Rubric could be used by teachers to assess student work or by students in self-assessment. The rubric can be a way for students and teachers to identify what levels of success look like, effective strategies that demonstrate achievement, and as a tool for providing and receiving feedback.

SOLO Taxonomy Rubric Template

Pam Hook has made available templates for teachers to download and customise (<http://pamhook.com/free-resources/downloadable-resources>) as well as tools that support teachers in the generation of SOLO progressions. You may choose to download and add learning goals or statements of achievement to the a document, or you might like to use the auto-generation feature provided on Pam Hook’s website, HookED (see: <http://pamhook.com/solo-apps/functioning-knowledge-rubric-generator>).

HookED SOLO Functioning Knowledge Rubric Generator

SOLO differentiated success criteria for actions, performance or doing things.

Create SOLO differentiated success criteria for functioning knowledge outcomes.

Insert a [functioning knowledge verb], [content] and [context] in the fields below. Then click “Generate Document” to produce your rubric.

Verb:

Content:

Context:

Achievement standard verb: “Incorporate” or “implement”

Remaining achievement standard description: “decision-making, repetition and user interface design into their designs...”

SOLO Functioning Knowledge Rubric					
	Prestructural	Unistructural	Multistructural	Relational	Extended abstract
Learning Intention <i>[verb] [content] [context]</i>	<i>[Needs help]</i>	<i>[if directed]</i>	<i>[aware but no reasons – makes mistakes]</i>	<i>[purposeful – strategic – knows why and when]</i>	<i>[new ways - seeks feedback to improve – acts as role model – teaches others]</i>
Effective strategies					

HookED
www.pamhook.com

Resources

<http://www.johnbiggs.com.au/academic/solo-taxonomy/>
<http://pamhook.com/>

Biggs, J.B., & Collis, K.F. (1982). *Evaluating the quality of learning: The SOLO taxonomy*. New York: Academic Press.