

SWLSB CYCLE 3

Competency 1: Solving a situational problem

	Level 1	Level 2	Level 3	Level 4
Production of an appropriate solution (procedure and solution)	<ul style="list-style-type: none"> • Always needs assistance • Rarely demonstrates understanding • Understanding is superficial, if evident • Uses unsystematic trial and error as sole strategy • Does not show application of strategies 	<ul style="list-style-type: none"> • Frequently needs assistance • Occasionally demonstrates general understanding • Occasionally selects strategies • Does not create a plan • Has difficulty applying an appropriate strategy 	<ul style="list-style-type: none"> • Occasionally needs assistance • Generally shows adequate understanding • Generally selects strategies • Creates a basic plan • Generally applies an appropriate strategy or applies different strategies as needed 	<ul style="list-style-type: none"> • Rarely needs assistance • Consistently shows understanding • Shows a deeper insight into problem • Consistently selects strategies • Creates a detailed plan • Consistently applies a variety of appropriate strategies
Oral or written explanation of the main aspects of the solution	<ul style="list-style-type: none"> • Always needs assistance • Makes little use of mathematical representation • Rarely provides an explanation • If explanation is provided, it is incomplete and unclear 	<ul style="list-style-type: none"> • Frequently needs assistance • Frequently makes use of mathematical representation • Mathematical representation is not always appropriate • Explanation provided is incomplete but the student is able to explain some steps 	<ul style="list-style-type: none"> • Occasionally needs assistance • Makes appropriate use of mathematical representation • Explanation provided is clear and complete 	<ul style="list-style-type: none"> • Rarely needs assistance • Makes use of a variety of appropriate mathematical representations • Explanation provided is clear, complete, insightful and well supported
Validation and communication of the appropriate solution	<ul style="list-style-type: none"> • Always needs assistance • Does not validate solution • Uses ambiguous mathematical language 	<ul style="list-style-type: none"> • Frequently needs assistance • Has difficulty validating solution independently • Occasionally uses mathematical language • Mathematical language is occasionally accurate and precise 	<ul style="list-style-type: none"> • Occasionally needs assistance • Generally able to validate solution independently • Generally uses mathematical language • Mathematical language is generally accurate and somewhat precise 	<ul style="list-style-type: none"> • Rarely needs assistance • Consistently uses validation as part of their problem solving process • Understands the need to validate solutions • Consistently uses accurate and precise mathematical language