Objective A: Knowing and understanding

i. select appropriate mathematics when solving problems in both familiar and unfamiliar situations

ii. apply the selected mathematics successfully when solving problems

iii. solve problems correctly in a variety of contexts.

Objective B: Investigating patterns

i. select and apply mathematical problem-solving techniques to discover complex patterns

ii. describe patterns as relationships and/or general rules consistent with findings

iii. verify and justify relationships and/or general rules.

Objective C: Communicating

i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written explanations

ii. use appropriate forms of mathematical representation to present information

iii. move between different forms of mathematical representation

iv. communicate complete and coherent mathematical lines of reasoning

v. organize information using a logical structure.

Objective D: Applying mathematics in real-life contexts

i. identify relevant elements of authentic real-life situations

ii. select appropriate mathematical strategies when solving authentic real-life situations

iii. apply the selected mathematical strategies successfully to reach a solution

iv. explain the degree of accuracy of a solution

v. explain whether a solution makes sense in the context of the authentic real-life situation.

Math Year 3 Summative Assessment Criteria Rubric

Level	Criteria A: Knowing and Understanding	Criteria B: Investigating Patterns	Criteria C: Communicating	Criteria D: Applying Mathematics in Real World Contexts
1-2	i. select appropriate mathematics when solving simple problems in familiar situations ii. apply the selected mathematics successfully when solving these problems iii. generally solve these problems correctly in a variety of contexts	i. apply, with teacher support, mathematical problem-solving techniques to recognize simple patterns. ii. state predictions consistent with simple patterns	i. use limited mathematical language ii. use limited forms of mathematical representations to present information iii. communicate through lines of reasoning that are difficult to interpret	i. identify some elements of the authentic real-life situation ii. apply mathematical strategies to find the solution to authentic real-life situation with limited success.
3-4	i. select appropriate mathematics when solving more complex problems in familiar situations ii. apply the selected mathematics successfully when solving these problems iii. generally solve these problems correctly in a variety of contexts	i. apply mathematical problem-solving techniques to recognize simple patterns. ii. suggest relationships and /or general rules consistent with these findings	i. use some appropriate mathematical language ii. use appropriate forms of mathematical representations to present information adequately iii. communicate through lines of reasoning that are able to be understood although these are not always clear iv. adequately organize information using a logical structure.	i. identify the relevant elements of the authentic real-life situation ii. select with some success, adequate mathematical strategies to model the authentic real-life situation iii. apply mathematical strategies to reach a solution to the authentic real-life situation iv. Describe whether the solution makes sense in the context of the authentic real-life situation
5-6	i. select appropriate mathematics when solving challenging problems in familiar situations ii. apply the selected mathematics successfully when solving these problems	i. select and apply mathematical problem-solving techniques to discover complex patterns ii. describe patterns as relationships or general rules consistent with findings iii. verify these relationships and/or general rules	i. usually use appropriate mathematical language ii. usually use appropriate forms of mathematical representations to present information correctly iii. move between different forms of mathematical representation with some success	i. identify the relevant elements of the authentic real-life situation ii. select adequate mathematical strategies to reach a solution to authentic real-life situation iii. apply the selected mathematical strategy to reach a valid solution to the authentic real-life situation iv. describe the degree of accuracy of the solution

	iii. generally solve these problems correctly in a variety of contexts		iv. communicate through lines of reasoning that are clear although not always coherent or complete v. present work that is usually organized in a logical structure	v. discuss whether the solution makes sense in the context of the authentic real-life situation
7-8	i. select appropriate mathematics when solving challenging problems in familiar and unfamiliar situations ii. apply the selected mathematics successfully when solving these problems iii. generally solve these problems correctly in a variety of contexts	i. select and apply mathematical problem-solving techniques to discover complex patterns ii. describe patterns as relationships and/or general rules consistent with correct findings iii. verify and justify these relationships and/or general rules	i. consistently use appropriate mathematical language ii. use appropriate forms of mathematical representations to present information correctly iii. move between different forms of mathematical representation with some success iv. communicate through lines of reasoning that are clear and coherent v. present work that is usually organized in a logical structure	i. identify the relevant elements of the authentic real-life situation ii. select appropriate mathematical strategies to model the authentic real-life situation iii. apply the selected mathematical strategy to reach a correct solution iv. explain the degree the accuracy of the solution v. explain whether the solution makes sense in the context of the authentic real-life situation