



	A: Knowing and Understanding	B: Investigating patterns	C: Communicating	D: Applying mathematics in real-life contexts
0	The student does not reach a standard described by any of the descriptors below			
1-2	<ul style="list-style-type: none"> i. select appropriate mathematics when solving simple problems in familiar situations ii. apply the selected mathematics when solving these problems iii. generally solve these problems correctly. 	<ul style="list-style-type: none"> i. apply, with teacher support, mathematical problem-solving techniques to recognize simple patterns ii. state predictions consistent with simple patterns. 	<ul style="list-style-type: none"> i. use limited mathematical language ii. use limited forms of mathematical representation to present information iii. communicate through lines of reasoning that are difficult to understand. 	<ul style="list-style-type: none"> i. identify some of the elements of the authentic real-life situation ii. apply mathematical strategies to find a solution to the authentic real-life situation, with limited success
3-4	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> i. apply mathematical problem-solving techniques to recognize simple patterns ii. suggest how these patterns work 	<ul style="list-style-type: none"> i. use some appropriate mathematical language ii. use different forms of mathematical representation to present information adequately iii. communicate through lines of reasoning that are able to be understood, although these are not always coherent iv. adequately organize information using a logical structure. 	<ul style="list-style-type: none"> i. identify the relevant elements of the authentic real-life situation ii. apply mathematical strategies to reach a solution to the authentic real-life situation iii. state, but not always correctly, whether the solution makes sense in the context of the authentic real-life situation.
5-6	<ul style="list-style-type: none"> i. select appropriate mathematics when solving challenging problems in familiar situations ii. apply the selected mathematics successfully when solving these problems iii. generally solve these problems correctly. 	<ul style="list-style-type: none"> i. apply mathematical problem-solving techniques to recognize patterns ii. suggest relationships or general rules consistent with findings iii. verify whether patterns work for another examples. 	<ul style="list-style-type: none"> i. usually use appropriate mathematical language ii. usually use different forms of mathematical representation to present information correctly iii. communicate through lines of reasoning that are usually coherent iv. present work that is usually organized using a logical structure. 	<ul style="list-style-type: none"> i. identify the relevant elements of the authentic real-life situation ii. select adequate mathematical strategies to model the authentic real-life situation iii. apply the selected mathematical strategies to reach a valid solution to the authentic real-life situation iv. describe the degree of accuracy of the solution v. state correctly whether the solution makes sense in the context of the authentic real-life
7-8	<ul style="list-style-type: none"> i. select appropriate mathematics when solving challenging problems in both familiar and unfamiliar situations ii. apply the selected mathematics successfully when solving these problems iii. generally solve these problems correctly. 	<ul style="list-style-type: none"> i. select and apply mathematical problem-solving techniques to recognize correct patterns ii. describe patterns as relationships or general rules consistent with correct findings iii. verify whether patterns work for other examples. 	<ul style="list-style-type: none"> i. consistently use appropriate mathematical language ii. use different forms of mathematical representation to present information correctly iii. communicate clearly through coherent lines of reasoning iv. present work that is consistently organized using a logical structure. 	<ul style="list-style-type: none"> 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 strategies to reach a correct solution iv. explain the degree of accuracy of the solution v. describe correctly whether the solution makes sense in the context of the authentic real-life situation.



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1-2	<ul style="list-style-type: none"> i. select appropriate mathematics when solving simple problems in familiar situations ii. apply the selected mathematics when solving these problems iii. generally solve these problems correctly. 	<ul style="list-style-type: none"> iii. apply, with teacher support, mathematical problem-solving techniques to discover simple patterns iv. state predictions consistent with patterns. 	<ul style="list-style-type: none"> iv. use limited mathematical language v. use limited forms of mathematical representation to present information vi. communicate through lines of reasoning that are difficult to interpret. 	<ul style="list-style-type: none"> iii. identify some of the elements of the authentic real-life situation iv. apply mathematical strategies to find a solution to the authentic real-life situation, with limited success
3-4	<ul style="list-style-type: none"> iv. select appropriate mathematics when solving more complex problems in familiar situations v. apply the selected mathematics successfully when solving these problems vi. generally solve these problems correctly. 	<ul style="list-style-type: none"> iii. apply mathematical problem-solving techniques to discover simple patterns iv. Suggest relationships and/or general rules consistent with findings. 	<ul style="list-style-type: none"> v. use some appropriate mathematical language vi. use different forms of mathematical representation to present information adequately vii. communicate through lines of reasoning that are able to be understood, although these are not always clear viii. adequately organize information using a logical structure. 	<ul style="list-style-type: none"> iv. identify the relevant elements of the authentic real-life situation v. select, with some success, adequate mathematical strategies to model the authentic real-life situation vi. apply mathematical strategies to reach a solution to the authentic real-life situation vii. describe whether the solution makes sense in the context of the authentic real-life situation.
5-6	<ul style="list-style-type: none"> iv. select appropriate mathematics when solving challenging problems in familiar situations v. apply the selected mathematics successfully when solving these problems vi. generally solve these problems correctly. 	<ul style="list-style-type: none"> iv. select and apply mathematical problem-solving techniques to discover complex patterns v. describe patterns as relationships and/or general rules consistent with findings vi. verify and justify these relationships and/or general rules. 	<ul style="list-style-type: none"> v. usually use appropriate mathematical language vi. usually use different forms of mathematical representation to consistently present information correctly vii. move between different forms of mathematical representation with some success viii. communicate through lines of reasoning that are clear although not always coherent or complete ix. present work that is usually organized using a logical structure. 	<ul style="list-style-type: none"> vi. identify the relevant elements of the authentic real-life situation vii. select adequate mathematical strategies to model the authentic real-life situation viii. apply the selected mathematical strategies to reach a valid solution to the authentic real-life situation ix. describe the degree of accuracy of the solution x. discuss whether the solution makes sense in the context of the authentic real-life
7-8	<ul style="list-style-type: none"> i. select appropriate mathematics when solving challenging problems in both familiar and unfamiliar situations ii. apply the selected mathematics successfully when solving these problems iii. generally solve these problems correctly. 	<ul style="list-style-type: none"> iv. select and apply mathematical problem-solving techniques to discover complex patterns v. describe patterns as relationships and/or general rules consistent with correct findings vi. verify and justify these relationships and/or general rules. 	<ul style="list-style-type: none"> v. consistently use appropriate mathematical language vi. use different forms of mathematical representation to consistently present information correctly vii. move effectively between different forms of mathematical representation viii. communicate through lines of reasoning that are complete and coherent ix. present work that is consistently organized using a logical structure. 	<ul style="list-style-type: none"> vi. identify the relevant elements of the authentic real-life situation vii. select appropriate mathematical strategies to model the authentic real-life situation viii. apply the selected mathematical strategies to reach a correct solution ix. explain the degree of accuracy of the solution x. explain whether the solution makes sense in the context of the authentic real-life situation.