



Criterion A: Knowing and understanding

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor				
0	The student does not reach a standard described by any of the descriptors below.				
1-2	<p>The student is able to:</p> <ul style="list-style-type: none"> i) select appropriate mathematics when solving simple problems in familiar situations ii) apply the selected mathematics successfully when solving simple familiar problems iii) generally solve simple familiar problems correctly. 				
3-4	<p>The student is able to:</p> <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 more complex familiar problems iii) generally solve more complex familiar problems correctly. 				
5-6	<p>The student is able to:</p> <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 challenging familiar problems iii) generally solve challenging familiar problems correctly. 				
7-8	<p>The student is able to:</p> <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 challenging familiar and unfamiliar problems iii) generally solve challenging problems correctly. 				



Criterion B: Investigating patterns

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor		Level descriptor	
0	The student does not reach a standard described by any of the descriptors below.	The student does not reach a standard described by any of the descriptors below.		The student does not reach a standard described by any of the descriptors below.	
1-2	The student is able to: i) apply, with teacher support , mathematical problem-solving techniques to recognize simple patterns ii) state predictions consistent with simple patterns.	The student is able to: i) apply, with teacher support , mathematical problem-solving techniques to discover simple patterns ii) state predictions consistent with patterns.		The student is able to: i) apply, with teacher support , mathematical problem-solving techniques to discover simple patterns ii) state predictions consistent with patterns.	
3-4	The student is able to: i) apply mathematical problem-solving techniques to recognize patterns ii) suggest how these patterns work.	The student is able to: i) apply mathematical problem-solving techniques to discover simple patterns ii) suggest relationships and/or general rules consistent with findings.		The student is able to: i) apply mathematical problem-solving techniques to discover simple patterns ii) suggest general rules consistent with findings.	
5-6	The student is able to: 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 example .	The student is able to: 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 these relationships and/or general rules.		The student is able to: i) select and apply mathematical problem-solving techniques to discover complex patterns ii) describe patterns as general rules consistent with findings iii) verify the validity of these general rules.	
7-8	The student is able to: 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 .	The student is able to: 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.		The student is able to: i) select and apply mathematical problem-solving techniques to discover complex patterns ii) describe patterns as general rules consistent with correct findings iii) prove or verify, and justify these general rules.	



Criterion C: Communicating

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor		Level descriptor	
0	The student does not reach a standard described by any of the descriptors below.	The student does not reach a standard described by any of the descriptors below.		The student does not reach a standard described by any of the descriptors below.	
1-2	The student is able to: i) use limited appropriate mathematical language ii) use limited forms of mathematical representation to present information iii) communicate through lines of reasoning that are difficult to understand .	The student is able to: i) use limited appropriate mathematical language ii) use limited forms of mathematical representation to present information iii) communicate through lines of reasoning that are difficult to understand .		The student is able to: 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 interpret .	
3-4	The student is able to: 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.	The student is able to: 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 clear iv) adequately organize information using a logical structure.		The student is able to: i) use some appropriate mathematical language ii) use appropriate forms of mathematical representation to present information adequately iii) communicate through lines of reasoning that are complete iv) adequately organize information using a logical structure.	
5-6	The student is able to: 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.	The student is able to: i) usually use appropriate mathematical language ii) usually use different forms of mathematical representation to present information correctly iii) move between different forms of mathematical representation with some success iv) communicate through lines of reasoning that are clear although not always coherent or complete v) present work that is usually organized using a logical structure.		The student is able to: i) usually use appropriate mathematical language ii) usually use appropriate forms of mathematical representation to present information correctly iii) usually move between different forms of mathematical representation iv) communicate through lines of reasoning that are complete and coherent v) present work that is usually organized using a logical structure.	
7-8	The student is able to: i) consistently use appropriate mathematical language ii) consistently 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.	The student is able to: i) consistently use appropriate mathematical language ii) use different forms of mathematical representation to consistently present information correctly iii) move effectively between different forms of mathematical representation iv) communicate through lines of reasoning that are complete and coherent v) present work that is consistently organized using a logical structure.		The student is able to: i) consistently use appropriate mathematical language ii) use appropriate forms of mathematical representation to consistently present information correctly iii) move effectively between different forms of mathematical representation iv) communicate through lines of reasoning that are complete, coherent and concise v) present work that is consistently organized using a logical structure.	



Criterion D: Applying mathematics in real-life contexts

Achievement level	Grade 6 (MYP 1)	Grade 7 (MYP 2)	Grade 8 (MYP 3)	Grade 9 (MYP 4)	Grade 10 (MYP 5)
	Level descriptor	Level descriptor			Level descriptor
0	The student does not reach a standard described by any of the descriptors below.	The student does not reach a standard described by any of the descriptors below.			The student does not reach a standard described by any of the descriptors below.
1-2	The student is able to: i) identify some of the mathematical elements of the authentic real-life situation ii) apply mathematical strategies to find a solution to the authentic real-life situation, with limited success .	The student is able to: i) identify some of the mathematical elements of the authentic real-life situation ii) apply mathematical strategies to find a solution to the authentic real-life situation, with limited success .			The student is able to: i) identify some of the mathematical 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	The student is able to: i) identify the relevant mathematical 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.	The student is able to: i) identify the relevant mathematical 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.			The student is able to: i) identify the relevant mathematical 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) discuss whether the solution makes sense in the context of the authentic real-life situation.
5-6	The student is able to: i) identify the relevant mathematical 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 situation.	The student is able to: i) identify the relevant mathematical 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) discuss whether the solution makes sense in the context of the authentic real-life situation.			The student is able to: i) identify the relevant mathematical 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) explain the degree of accuracy of the solution v) explain whether the solution makes sense in the context of the authentic real-life situation.
7-8	The student is able to: i) identify the relevant mathematical 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 correct solution to the authentic real-life situation 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.	The student is able to: i) identify the relevant mathematical 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 correct solution to the authentic real-life situation iv) explain the degree of accuracy of the solution v) explain whether the solution makes sense in the context of the authentic real-life situation.			The student is able to: i) identify the relevant mathematical 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 correct solution to the authentic real-life situation iv) justify the degree of accuracy of the solution v) justify whether the solution makes sense in the context of the authentic real-life situation.