

MYP Mathematics Assessment Criteria – M4 & M5

CRITERION A		KNOWLEDGE & UNDERSTANDING
Achievement level	Descriptor	
0	The student does not reach a standard described by any of the descriptors given below.	
1–2	The student generally makes appropriate deductions when solving simple problems in familiar contexts.	
3–4	The student generally makes appropriate deductions when solving more complex problems in familiar contexts.	
5–6	The student generally makes appropriate deductions when solving challenging problems in a variety of familiar contexts.	
7–8	The student consistently makes appropriate deductions when solving challenging problems in a variety of contexts including unfamiliar situations .	

CRITERION B		INVESTIGATING PATTERNS
Achievement level	Descriptor	
0	The student does not reach a standard described by any of the descriptors given below.	
1–2	The student applies, with some guidance , mathematical problem-solving techniques to recognize simple patterns.	
3–4	The student applies mathematical problem-solving techniques to recognize patterns, and suggests relationships or general rules.	
5–6	The student selects and applies mathematical problem-solving techniques to recognize patterns, describes them as relationships or general rules, and draws conclusions consistent with findings.	
7–8	The student selects and applies mathematical problem-solving techniques to recognize patterns, describes them as relationships or general rules, draws the correct conclusions consistent with the correct findings, and provides justifications or a proof .	

CRITERION C		COMMUNICATION
Achievement level	Descriptor	
0	The student does not reach a standard described by any of the descriptors given below.	
1–2	The student shows basic use of mathematical language and/or forms of mathematical representation. The lines of reasoning are difficult to follow .	
3–4	The student shows sufficient use of mathematical language and forms of mathematical representation. The lines of reasoning are clear though not always logical or complete . The student moves between different forms of representation with some success .	
5–6	The student shows good use of mathematical language and forms of mathematical representation. The lines of reasoning are concise, logical and complete . The student moves effectively between different forms of representation.	

CRITERION D		REFLECTION
Achievement level	Descriptor	
0	The student does not reach a standard described by any of the descriptors given below.	
1–2	The student attempts to explain whether his or her results make sense in the context of the problem. The student attempts to describe the importance of his or her findings in connection to real life where appropriate.	
3–4	The student correctly but briefly explains whether his or her results make sense in the context of the problem. The student describes the importance of his or her findings in connection to real life where appropriate. The student attempts to justify the degree of accuracy of his or her results where appropriate.	
5–6	The student critically explains whether his or her results make sense in the context of the problem. The student provides a detailed explanation of the importance of his or her findings in connection to real life where appropriate. The student justifies the degree of accuracy of his or her results where appropriate. The student suggests improvements to his or her method where appropriate.	

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