

CHAPTER 7: RUBRIC FOR CHALLENGE 1

Assessment Category	Scores and Criteria			
	Passable level of achievement – below provincial standard LEVEL 1	Moderate level of achievement – below, but approaching provincial standard LEVEL 2	High level of achievement – at provincial standard LEVEL 3	Very high to outstanding level of achievement – above provincial standard LEVEL 4
Knowledge and Understanding				
Performance of an algorithm by hand, mentally, or using technology	Some steps of using points to determine the equation are performed but may contain inaccuracies.	Most steps of using points to determine the equation are performed but may contain inaccuracies.	Steps for using points to determine the equation are performed completely; most computations generally correct.	Steps for using points to determine the equation are performed completely and accurately and are verified or supported.
Thinking, Inquiry, Problem Solving				
Creation of a model (algebraic, graphical, geometric, physical, technological) to solve a problem	A model was used that fits few aspects of the data collected.	A model was used that addresses some aspects of the data collected.	An appropriate model was used that addresses most aspects of the collected data.	An appropriate model was used that integrates all aspects of the data and is verified.
Justification of reasoning and/or conclusion	Reasoning is evident but lacks consistency.	Reasoning is evident and logical in parts of the problem.	Reasoning is logical and consistent within the context of the problem.	Reasoning is logical and consistent and relates to broader context.
Making conclusions and inferences	Conclusions are somewhat connected with work but are not supported.	Conclusions are consistent with work but are not fully supported.	Conclusions are supported by evidence and integrate aspects of the problem.	Conclusions are supported, integrate all aspects of the problem, and are convincing.
Communication				
Correct use of mathematical symbols, labels, and conventions	Few mathematical conventions are used.	Some mathematical conventions are used correctly.	Most mathematical conventions are used correctly.	Mathematical conventions are used correctly.
Ability to read and interpret mathematics	The student gathers limited but accurate information from measurements, calculations, and the Internet.	The student gathers some information from measurements, calculations, and the Internet but has difficulty interpreting the information.	The student gathers sufficient information from measurements, calculations, and the Internet and interprets the information correctly.	The student gathers complex information from measurements, calculations, and the Internet and interprets the information fully.
Degree of clarity in explanations and justifications	Explanations and justifications lack clarity.	Explanations and justifications are understandable but lack clarity.	Explanations and justifications are clear.	Explanations and justifications are clear and thorough.