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CHAPTER 1: 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				
Demonstration of understanding of a concept	• Attempted solution demonstrates limited understanding of geometric sequences.	• Solution demonstrates some evidence of understanding of geometric sequences.	• Solution demonstrates sufficient evidence to show understanding of geometric sequences.	• Detailed solution demonstrates thorough understanding of geometric sequences.
Thinking, Inquiry, Problem Solving				
Selection and sequencing of a variety of tools and strategies to solve a problem	• The student selects and uses a few appropriate tools to make a limited attempt to solve the problem.	• The student selects some appropriate tools and uses these to solve part of the problem.	• The student chooses appropriate tools and uses these to solve most of the problem.	• The student chooses appropriate tools and incorporates these in the execution of the plan to solve problem and verify solution.
Making conclusions and inferences	• Conclusions are somewhat connected with the student's solution but are not supported.	• Conclusions are consistent with the student's solution but are not fully supported.	• Conclusions are supported by evidence and aspects of the problem are integrated with the conclusions.	• Conclusions are supported and convincing. Conclusions integrate all aspects of the problem.
Communication				
Correct use of mathematical symbols, labels, and conventions	• The student uses few mathematical conventions.	• The student correctly uses some mathematical conventions.	• The student correctly uses most mathematical conventions.	• The student correctly uses mathematical conventions.
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.
Application				
Use of a selected tool or strategy	• Selected tool or strategy is used with some inaccuracies.	• Selected tool or strategy is used, but solution may contain minor errors.	• Selected tool or strategy is used correctly.	• Selected tool or strategy is used correctly and is verified or supported.

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