Chapter 1 Task Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • Provides solutions for questions 1 to 8.	Demonstrates limited understanding of quadratic functions, making major errors in the solutions.	Demonstrates some understanding of quadratic functions, making only minor errors in the solutions.	Demonstrates considerable understanding of quadratic functions, making no errors in the solutions.	Demonstrates thorough understanding of quadratic functions, with complete and correct solutions.
Thinking • Prepares a plan to complete the task. • Carries out the plan.	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
Communication • Correct use of mathematical language. • Clear explanations and full justifications.	Maintains the correct units in some parts of the solution. Does not clearly explain or justify solution.	Maintains the correct units throughout most of the solution. Explains and justifies solution somewhat.	Maintains the correct units throughout the solution. Explains and justifies solution fully.	Maintains the correct units throughout the solution. Explains, justifies, and shows insight into the complexities of the solution.
Application • Provides a quadratic function problem and its solution for question 9.	Provides a simple quadratic problem with an incorrect solution.	Provides a simple quadratic problem with a mostly correct solution.	Provides a complex quadratic problem with a mostly correct solution.	Provides a complex quadratic problem with a correct solution.