

Chapter 6 Problem Wrap-Up Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Examines the table and determines there is no constant value for the first or second differences in part a). Determines an exponential function for the data based on calculated ratios. 	Demonstrates limited understanding of the differences between linear, quadratic, and exponential functions, making major errors.	Demonstrates some understanding the differences between linear, quadratic, and exponential functions, making minor errors.	Demonstrates considerable understanding of the differences between linear, quadratic, and exponential functions, making no errors.	Demonstrates thorough understanding of the differences between linear, quadratic, and exponential functions, making no errors and providing a complete solution.
Thinking <ul style="list-style-type: none"> Prepares a plan to solve the problem. 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 <ul style="list-style-type: none"> Uses mathematical language correctly. Clear explanations and full justifications. 	Maintains the correct units in some 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 <ul style="list-style-type: none"> Uses the exponential function to make decisions regarding the problem. 	Interprets the information ineffectively, needing considerable assistance to make recommendations about the problem.	Interprets the information somewhat effectively, needing some assistance to make recommendations about the problem.	Interprets the information with considerable effectiveness, needing little assistance to make recommendations about the problem.	Interprets the information with a high degree of effectiveness. Is able to make recommendations about the problem without assistance.