

## Chapter 7 Problem Wrap-Up Rubric

Category	Level 1	Level 2	Level 3	Level 4
<b>Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>Demonstrates an understanding of exponential relations.</li> </ul>	Demonstrates limited understanding of exponential relations. Makes major errors.	Demonstrates some understanding of exponential relations. Makes minor errors.	Demonstrates considerable understanding of exponential relations. Makes few minor errors.	Demonstrates thorough understanding of exponential relations. Makes very few or no errors.
<b>Thinking</b> <ul style="list-style-type: none"> <li>Prepares a plan to solve the problem.</li> <li>Carries out the plan.</li> </ul>	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.
<b>Communication</b> <ul style="list-style-type: none"> <li>Clear explanations and full justifications.</li> <li>Correct use of mathematical language.</li> </ul>	Does not clearly explain or justify solution. Uses mathematical language incorrectly.	Explains and justifies solution somewhat. Sometimes uses mathematical language incorrectly.	Explains and justifies solution fully. Correctly uses mathematical language.	Explains, justifies and shows insight into the complexities of the solution. Correctly uses mathematical language fluently.
<b>Application</b> <ul style="list-style-type: none"> <li>Applies knowledge of exponential relations to determine the effect of continued exposure to loud sounds.</li> </ul>	Applies knowledge of exponential relations ineffectively and has difficulty determining the effect of continued exposure to loud sounds.	Applies knowledge of exponential relations somewhat effectively and has some difficulty determining the effect of continued exposure to loud sounds.	Applies knowledge of exponential relations with considerable effectiveness and has little difficulty determining the effect of continued exposure to loud sounds.	Applies knowledge of exponential relations with a high degree of effectiveness and has no difficulty determining the effect of continued exposure to loud sounds.