

Name: _____

Date: _____

Chapter 5 Problem Wrap-Up Rubric

BLM 5-12

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> graphs the equations that model the roller coaster 	<ul style="list-style-type: none"> demonstrates limited understanding of modeling with trigonometric functions, by producing an inadequate sketch 	<ul style="list-style-type: none"> demonstrates some understanding of modeling with trigonometric functions, by producing an adequate sketch but without identifying the important points 	<ul style="list-style-type: none"> demonstrates considerable understanding of modeling with trigonometric functions, by producing an accurate, fully labelled sketch 	<ul style="list-style-type: none"> demonstrates thorough understanding of modeling with trigonometric functions, by producing an accurate, fully labelled sketch using technology
Thinking <ul style="list-style-type: none"> prepares a plan to solve the problem carries out the plan 	<ul style="list-style-type: none"> needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow 	<ul style="list-style-type: none"> needs some assistance to begin organizing a plan and needs some steps to follow 	<ul style="list-style-type: none"> needs minimal assistance to organize and implement an effective strategy 	<ul style="list-style-type: none"> needs no assistance to organize and implement an effective strategy
Communication <ul style="list-style-type: none"> correctly uses mathematical language clearly explains and fully justifies solution 	<ul style="list-style-type: none"> maintains the correct language in some of the solution does not clearly explain or justify solution 	<ul style="list-style-type: none"> maintains the correct language throughout most of the solution explains and justifies solution somewhat 	<ul style="list-style-type: none"> maintains the correct language throughout the solution explains and justifies solution fully 	<ul style="list-style-type: none"> maintains the correct language throughout the solution explains, justifies and shows insight into the complexities of the solution
Application <ul style="list-style-type: none"> determines equations for each part of the ride which satisfy the four criteria shows a mathematical proof that the rates of change at the joins satisfy the criteria 	<ul style="list-style-type: none"> interprets the information ineffectually, by producing equations satisfying only one of the criteria and lacking a convincing proof concerning the rates of change at the joins 	<ul style="list-style-type: none"> interprets the information somewhat effectually, by producing equations satisfying two of the criteria and attempting a proof concerning the rates of change at the joins 	<ul style="list-style-type: none"> interprets the information with considerable effectiveness, by producing equations satisfying three of the criteria and showing a proof concerning the rates of change at the joins 	<ul style="list-style-type: none"> interprets the information with a high degree of effectiveness, by producing equations satisfying all four of the criteria and showing a convincing proof concerning the rates of change at the joins