

Modeling Periodic Behavior – Project Rubric

	Exemplary (10)	Proficient (8.5)	Developing (7)	Emerging (6)
<p>Knowledge</p> <p><i>Key Question: Are the mathematics done in an accurate and complete manner?</i></p>	<ul style="list-style-type: none"> All aspects of your work were complete, accurate, and consistent Your data is reasonable, suitable to the task and well-researched Your role and audience are clear and consistent 	<ul style="list-style-type: none"> All aspects of your work were complete Your work was essentially accurate Your data may have lapses in suitability or reasonability 	<ul style="list-style-type: none"> Some aspects of your work were incomplete Your work may have significant errors Your data may have lapses in suitability or reasonability 	<ul style="list-style-type: none"> Many aspects of your work were incomplete Your work may have significant errors Your data is not well-chosen Your role and audience are not clear or are ignored in parts of your project
<p>Application</p> <p><i>Key Question: Does the student use his/her knowledge and skills to make connections within the task?</i></p>	<ul style="list-style-type: none"> All of your work, discussion and mathematical representations were consistent with one another and relevant to the task You interpreted all the mathematics correctly in the real-life context of the task 	<ul style="list-style-type: none"> Most of your work, discussion and mathematical representations were consistent with one another and relevant to the task You interpreted some of the mathematics correctly in the real-life context of the task 	<ul style="list-style-type: none"> There were some inconsistencies and errors in your work, discussion and mathematical representations You were able to find some connections to real-life, but your interpretations were incorrect 	<ul style="list-style-type: none"> There were significant inconsistencies and errors in your work, discussion and mathematical representations You could not interpret the mathematics in real-life context
<p>Thinking/Problem Solving</p> <p><i>Key Question: Did the student use critical thinking and analytical skills?</i></p>	<ul style="list-style-type: none"> Your approach to the task was insightful You confirmed that your solution was correct You provided relevant, logical discussion about the meaning and reasonableness of your solution You noted possible sources of error or ambiguity or limitations in the problem 	<ul style="list-style-type: none"> Your approach to the task was appropriate You confirmed that your solution was correct You discussed the meaning and reasonableness of your solution, though your discussion may have lapses in relevance or logic 	<ul style="list-style-type: none"> You used an oversimplified approach to the task You attempted to confirm that your solution was correct You attempted to discuss the meaning and reasonableness of your solution, though your discussion may have large gaps in relevance or leaps in your logic that are hard to follow 	<ul style="list-style-type: none"> Your strategies were not appropriate for the task You did not attempt to confirm that your solution was correct You provided little discussion about the meaning and reasonableness of your solution, or your discussion was not logical or relevant Your reasoning and your work were inconsistent
<p>Communication</p> <p><i>Key Question: Did the student clearly, concisely, and completely convey meaning through various forms?</i></p>	<ul style="list-style-type: none"> All explanations and mathematical representations were clear, concise and complete You used mathematical terminology precisely 	<ul style="list-style-type: none"> Most explanations and mathematical representations were clear, concise and complete You used mathematical terminology correctly 	<ul style="list-style-type: none"> Some explanations and mathematical representations were clear, concise and complete You used mathematical terminology incorrectly at times 	<ul style="list-style-type: none"> Your explanations and mathematical representations were often unclear, incomplete or redundant You often used mathematical terminology incorrectly

Name: _____

Knowledge: /10

Application: /10

Thinking: /10

Communication: /10

Block: ____ Total Score: /40