

Trigonometry Project Rubric

Criteria:	Score:	Comments:
<p>The Data: Observe/Research a real-world situation that can be modeled using the periodic functions of either sine or cosine. Your subject must be factual and/or based on documented research or measurable by you.</p>	/10	
<p>The Graph: A graph of your raw data, along with the sine or cosine curve that you are using to model your data. Needless to say, your graph should be carefully and accurately created. Both axes should be labeled with a clear and consistent scale.</p>	/20	
<p>The Equation: Determine the full equation of your data, using either: $y = a \sin b(x - h) + k$ or $y = a \cos b(x - h) + k$ with an explanation of each of the following measures: <i>a</i>: Amplitude <i>b</i>: Period & calculation of "b" value <i>x</i>: Explain your units on the x axis <i>h</i>: Phase shift (if necessary) <i>k</i>: Vertical Shift</p>	/50	
<p>The Calculated Data Point: You should demonstrate how you can use the equation to predict a random point on your graph. The point should NOT be one of the maximum, minimum, or mid-line values.</p>	/10	
<p>The Visual Presentation: You may present each of the above items on the medium of your choice, including, but not limited to, a poster, a paper, a PowerPoint, a model, etc.</p>	/10	
<p>OVERALL GRADE:</p>		

