**Modeling with Trigonometric Functions Assessment**

**TASK 1: Ferris Wheel Design Scoring Rubric**

**40 point Major Assessment**

**Your virtual poster must be submitted in the myPG platform as a single PDF file (1 page only) in order for it to be considered for evaluation.**

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| **Criteria** | **Possible Points** | **Points Earned** |
| The virtual poster includes a sketch of the ferris wheel with measurements and information included.   * Diameter of Ferris Wheel * Platform Height of Ferris Wheel * Time it takes for one trip around Ferris Wheel   *If you are modeling an existing Ferris Wheel and this information was found you need to include complete MLA citations for where you got the information.* | 5 |  |
| The virtual poster includes a graph of three cycles (waves) of motion (trips) around the ferris wheel of a rider on the ferris wheel.   * Graph includes labeled x axis * Graph includes labeled y axis * Graph is clear and accurate and has at least three full cycles graphed | 5 |  |
| Accurate Amplitude and Period of the graphed motion are listed | 5 |  |
| Accurate Sine Model for the graphed motion   * Accurate a, b, c, and d value | 10 |  |
| Accurate Cosine Model for the graphed motion   * Accurate a, b, c, and d value | 10 |  |
| Virtual Poster is Quality Work   * Information is formatted in a way that makes it clear for the consumer to understand presented information * Aesthetic composition of analytical work and presented information is of high standard | 5 |  |