Trigonometric Modeling Poster

* You must choose either the temperature regression activity or the biorhythm activity to present on a poster.
* If you choose to present the temperature regression activity, you must include the following on your poster:
  + The **name of your city**
  + A **graph** of your data that includes your regression equation drawn on the graph (copy and paste from Desmos)
  + The **equation** that models your data
  + The **answers** to the following questions (in complete sentences):
    - What is the average temperature of your city? What value illustrates this in your model?
    - What is the period of your model? Why?
    - By how much does your city’s temperature vary? What value illustrates this in your model?
* If you choose to present the biorhythm activity, you must include the following on your poster:
  + A **graph** that includes all **three** of your own personal biorhythm cycles for the upcoming month (Please color code and label each cycle, can copy and paste from Desmos, make sure you are on the right days interval)
  + The **three equations** that model your three personal biorhythm cycles for the upcoming month
  + The **answers** to the following questions (in complete sentences)
    - What is your best physical day of the month?
    - What is your best emotional day of the month?
    - When do you hope a math test will be scheduled this month? Why?
    - What is your best overall day this month? Why?
* Your poster is due at the beginning of class on **Thursday, October 11.**
* This poster will count as a quiz grade.
* A rubric is located on the back of this page.

Option 1: Temperature Regression (30 pts available)

* Information included:
  + name of city (2 pts)
  + desmos graph of data with regression line included on graph (5 pts)
  + regression equation (5 pts)
* Questions answered
  + all 6 questions answered correctly (12 pts)
  + questions answered in complete sentences (3 pts)
* Presentation
  + information is presented in a neat organized manner (3 pts)

Option 2: Biorhythms (30 pts available)

* Information included:
  + color coded, labeled graph of all three biorhythm cycles (9 pts)
  + all three biorhythm equations (3 pts)
* Questions answered
  + all 6 questions answered correctly (12 pts)
  + questions answered in complete sentences (3 pts)
* Presentation
  + information is presented in a neat organized manner (3 pts)