You are to create a tri-fold paper of comparing Linear, Quadratic or Exponential Functions. You will be working individually.

Each project is to have the following:

- \_\_\_\_\_ Title your paper and write your name.
- \_\_\_\_\_ Create three sections (tri-fold) to sort out your material.
  - Linear, Quadratic or Exponential
- \_\_\_\_\_ Include the following under each Function section.
  - Title the Section
  - Include the most common basic form of each function (only 1 equation) & explain in your own words how you know how to identify an LQE equation.
  - Draw a picture of how the function looks on a graph
    - Identify the following main characters on the graph (literally draw an arrow to where this would be located – no numbers necessary).
      - Linear
        - X-intercept
        - Y-intercept
        - Positive, Negative, Zero or Undefined Slope
      - Quadratic
        - Vertex
        - Axis of Symmetric
        - Min or Max
        - Direction of Opening
        - X-intercept
        - Y-intercept
      - Exponential
        - X-intercept
        - Y-intercept
        - Growth or Decay
        - Asymptote
  - Include a table for each section showing how the table changes (common differences 1<sup>st</sup> or 2<sup>nd</sup> or common ratio) please use different tables from the ones provided to you in your notes.
- \_\_\_\_\_ This tri-fold project should not be plain please decorate.
- \_\_\_\_\_ Make sure your tri-fold is neat, legible and presentable.

Linear	<u>Quadratic</u>	Exponential
Equation Section	Equation Section	Equation Section
Graph Section	Graph Section	Graph Section
Table Section	Table Section	Table Section