

# Exponential Relationships

Your work with inverse relationships was a new concept in eighth grade. To demonstrate knowledge with inverse relationships include the following:

- **Example of an exponential table with paragraph explaining of why the table is exponential**
  - **Example of an exponential graph with a paragraph explaining why the graph is exponential**
  - **Example of an exponential equation with a paragraph explaining why the equation is exponential**
1. Each example/paragraph should use key vocabulary from the unit
  2. Each example/paragraph should include supplemental pictures or diagrams to aid in explanation
  3. Each example/paragraph should make connections to real world concepts
- **Parent Problem**
1. Make up a problem drawn from something you were asked to learn in this unit and ask someone at home to solve it. Include a copy of the problem with your solution, to be used as a key.
  2. You may make the problem challenging but not extremely difficult. The parent problem should have some depth, and may be somewhat like a three step homework problem. Ask for work to be shown and reasoning to be explained in writing.
  3. If the person is struggling, offer hints or clues to help.
  4. Write a paragraph describing the whole process. Include your parent's work in the portfolio.
- **Reflection**
1. In a paragraph, describe something you learned from exponential equations. This could be something new you came to understand since seventh grade, something still puzzling you, a connection you made between math concepts or from math to the real world, or something else.
  2. Tell why you've included this information and your feelings about it.