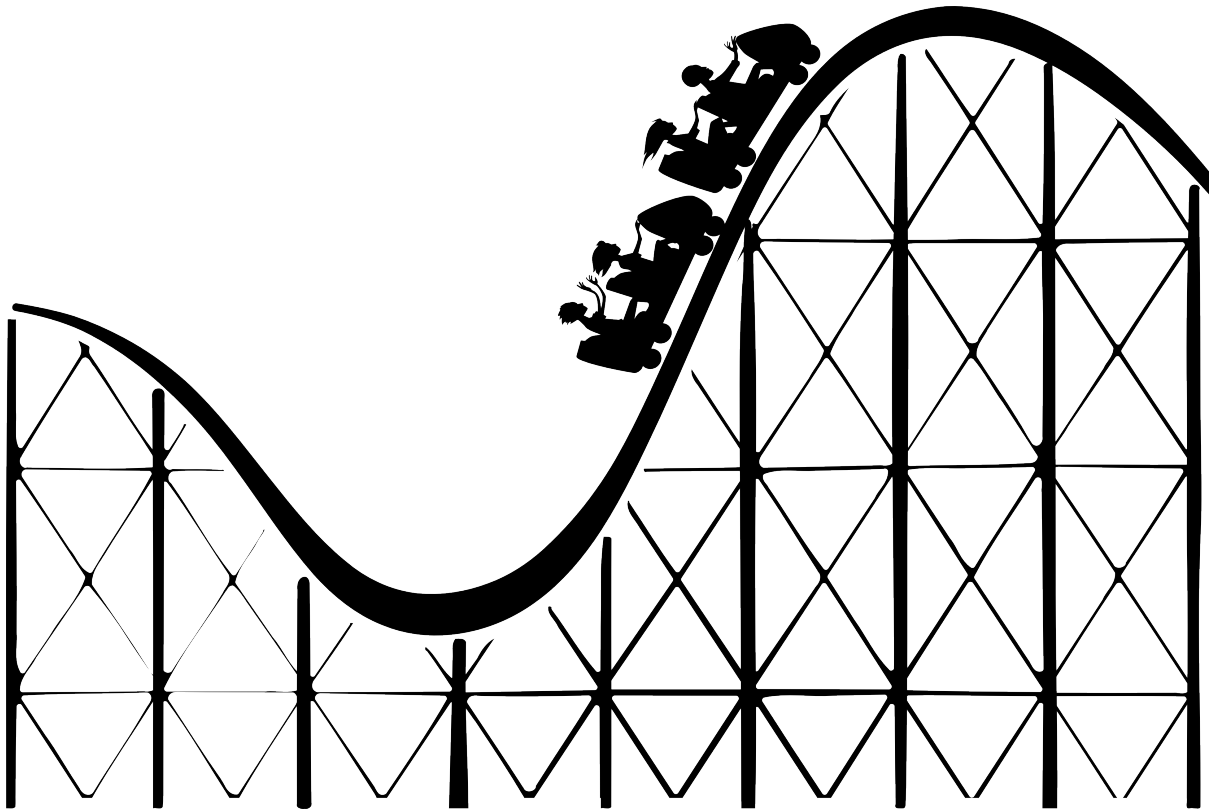


## Algebra 1: Semester Project Sample

PART 1:

\* This should be a 3D model – I didn't make one, but if I did, I'd build a rollercoaster out of toothpicks and straws. It would look something like this:

\*\*The “...” means you need to fill in the work



The 3 units are represented in this one *model* since (list examples of where they're represented...).

## Equations:



Let x rep...

Let y rep...

### Linear Equations: (Orange Line)

Points:  $(x_1, y_1)$ ,  $(x_2, y_2)$

$$m = (y_2 - y_1) / (x_2 - x_1)$$

m = ....

Find b

...

$$y = mx + b$$

...

### Systems of Equations:

... Show how I can get 2 lines and find a Point of Intersection...

### Exponents:

... Show how I can find an exponential growth or decay...

**PART 2:**  
**Paragraph:**

Each unit is related because...