Admin Notes / Agenda

- Lesson Review - Justin
- Projects will be turned back by Thursday, corrections expected by Monday in class.
- Change in schedule for Writ 0 / MA204 Discussion

1 Lesson 16: Intro to Predictive Modeling I

Key Terms:

1. **Functions** are parameterized mathematical models, we will use to predict outcomes
2. **explanatory variable**
3. **response variable**
4. **Families of Functions** linear, Exponential, and polynomial
5. **parameters** what we can change to affect our model selection
6. **Slope-intercept form of a line** y = mx +b where m is the slope or rate of change and b is the y-intercept
7. **Point slope form of a line** $y - y_0 = m(x - x_0)$ where m is the slope or rate of change and (x_0, y_0) is a point on the line
8. **General form of a line** $A_x + B_y + C = 0$ where A, B, and C are constants.
9. In a **First Principle** approach a function is developed based on a physical or contextual relationship you understand about the problem
10. In an **Empirical** approach a solution type a function is developed based on data first. This maybe validated employing contextual information about the problem context or further data.

2 Work Board Sheet