### What's Going On?

**Checking In** 

Minds on Linear, Quadratic, Exponential

or None?

Action! Regression on the TI-83s

Making a Cheat Sheet

Consolidation Using the Cheat Sheet

Learning Goal - I will be able to use the TI-83 Graphing Calculator to determine equations that fit given data.

#### Minds on

# Linear, Quadratic, Exponential or None?

Given a table of values or a graph, how could you determine if the data fits a linear, quadratic or exponential model?

Linear: - Graph has consistent Rate of Change · Table has constant (ist 1. Freenes Quadratic. - The graph rises then falls/ - Table of Values has constat second differences Exponential: - The graph could double, tiple, half,.. L's the rate of change increases of Lecroses our time - Table of Univers has
constant (ations (first + second differences are not constant)

### Minds on

# Linear, Quadratic, Exponential or None?

Given an equation, how can you determine if that equation would produce a linear, quadratic or exponential trend?

Linear: The independent variable is of degree 1. The independent variable has no exponent. Quadratic: The independent variable is of degree 2. The independent variable has mexponent of 2. y = -3(2) + 4x - 9Exponential. The independent variable is in the exponent. V= 2 .5

### Action!

### Regression on the TI-83s

I have put together some videos that walk you through some analyses on the TI-83s.

You can access the videos from my YouTube Channel (GilbertMath) on the iPads.

Please use headphones / earbuds so it doesn't get crazy loud in here! The extra buds in the case have never been used!

### Consolidation

## Using the Cheat Sheet

I have provided you with 3 follow up problems. Please work through them using your cheat sheet and, if necessary, the videos.