Unit 1: Linear Function Models and Problem Solving

Our Learning Goals:

We will…
- ✓ organize data from social science and personal finance situations to communicate using a table of values, graph, equation, or verbal description
- ✓ interpret organized data to determine the advantages or disadvantages of a decision
- ✓ solve for the point of intersection to find the break-even point in a given situation.
- ✓ determine reasonable domain and range values in everyday situations.

Why do we study this?

- ❖ Rate of change is utilized by consumers (price of graphs per pound), employees (pay per hours worked), and in other areas of everyday life (miles per hour).
- ❖ As consumers, linear equations compare the financial advantage of purchasing one product over another (comparing cell phone plans).
- ❖ Linear function models organize data in tables, equations, or graphs in order to analyze the data to equip informed decision making.
- ❖ Students will use the model of linear function in their personal and professional life.

How we will show what we have learned…

Formative Assessments	Summative Assessments
Ongoing formative assessments during lesson & homework activities will help in monitoring learning and providing feedback for students.	Summative assessments to measure learning at the end of concepts will include the following: • Test: Linear Functions • Test: System of Equations • Test: Linear Inequalities • Unit 1 Assessment (District-wide)

Sample Problem:

Meagan and her friends want to go to Six Flags for a day of fun. Meagan wants to calculate the total cost of her and her friends entering in the park. Some of Meagan's friends are not sure if they can go with her. If parking costs $23.15 for the day, and a ticket costs $78.99 per person, write an equation to represent the total cost depending on the number of people that are able to go to Six Flags?

Additional Support:

- Check teacher web pages and canvas for notes, worksheets, assignments, etc.
- Search the specific topic on the web. We recommend Khan Academy or Purple Math.
- Attend tutorials – you can see ANY math teacher for help.

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If you have questions please contact your Math Models teacher.

--Your EM-S MMA Team