Algebra 1, Unit 2 *Linear Functions, Equations, and Inequalities*

Our Learning Goals:

We will…

- ✓ determine if a relation is a function
- ✓ find domain and range and use function notation
- ✓ find rates of change from data (to find slope).
- ✓ solve problems involving direct variation.
- ✓ write equations in various forms to represent lines and graph the lines.
- ✓ graph horizontal and vertical translations of a function.
- ✓ write an equation of a trend line (line of best fit) and make predictions.
- ✓ write arithmetic sequences from common difference patterns.

Why do we study this?

- ❖ We can use equations to predict a company's revenue, the number of days supplies will last on a trip, or the time it will take to complete a project.

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 may include the following: • Topic 2.6/2.7 Test: Formalizing Relations and Functions, Functional Notation • Topic Test: Slope, Slope-intercept, Direct Variation • Topic Test: Point Slope, Standard Form, Parallel and Perpendicular Lines • Unit 2 Test (District-wide)

Sample Problem:

A scuba diver is 30 feet below the surface of the water 10 seconds after he entered the water and 100 feet below the surface after 40 seconds. What is the scuba diver's rate of change?

Additional Support:

- Check teacher canvas for notes, worksheets, assignments, etc.
- Search the specific topic on the web. We recommend Khan Academy and Illuminations.
- Log in to the website www.pearsonRealize.com.
- Attend tutorials – you can see ANY math teacher for help.
- Refer to your Algebra I homework helper textbook.

EAGLE MOUNTAIN SAGINAW ISD
Curriculum and Instruction

If you have any questions please contact your Algebra teacher.

--Your EMS ISD Algebra Team