



RMATH NEWS



Algebra I, Module 1, Topic A

Algebra I

Module 1: Relationships Between Quantities and Reasoning with Equations and Their Graphs

Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 1 of Eureka Math (Engage New York) focuses on linear, quadratic, and exponential functions. These are the functions students will focus on throughout their Algebra I course. The goal is to introduce students to these functions by having them make graphs of a situation (usually based upon time) in which these functions naturally arise. As they graph, they will reason quantitatively and use units to solve problems related to the graphs they create.



Focus Area Topic A:

*Introduction to Functions Studied This Year—
Graphing Stories*

Words to Know

Piecewise Linear Function: Given non-overlapping intervals on the real number line, a (real) piecewise linear function is a function from the union of the intervals on the real number line that is defined by (possibly different) linear functions on each interval.



Focus Area Topic A:

*Introduction to Functions Studied This Year—
Graphing Stories*

Lesson 1: Graphs of Piecewise Linear Functions

Links used in Lesson 1:

Introduction of the lesson:

<http://www.mrmeyer.com/graphingstories1/graphingstories2.mov>

Problem #1 of Problem Set:

<http://www.mrmeyer.com/graphingstories1/graphingstories3.mov>

Exit Ticket Video Link:

<http://youtu.be/1XWFQeGVoSo>

Lesson 2: Graphs of Quadratic Functions

Introduction to lesson: <http://youtu.be/xgODzAwrxr8>

Example in student pages:

<https://www.youtube.com/watch?v=ZCFBC8aXz-g>

Problem #2 in Problem Set:

<http://www.mrmeyer.com/graphingstories1/graphingstories4.mov>

Exit Ticket Video Link:

<http://youtu.be/wkKb1qbMDsA>

Lesson 3: Graphs of Exponential Functions

During the lesson:

<https://www.youtube.com/watch?v=gEwzDydcjWc>

Exit Ticket Video Link:

<http://youtu.be/rAXVIA9KZaY>

Lesson 4: Analyzing Graphs—Water Usage During a Typical Day at School

Exit Ticket Video Link:

<http://youtu.be/tUd4iU8ApE8>

Lesson 5: Two Graphing Stories

During the lesson:

<http://youtu.be/X956EvmCevI>

Problem #5 of Problem Set:

http://www.mathgoodies.com/calculators/random_no_custom.html

Exit Ticket Video Link:

<http://youtu.be/fbZXtA8uA-I>

