

Richmond Public Schools
Department of Curriculum and Instruction
Curriculum Pacing and Resource Guide – Unit Plan



Course Title/ Course #: Math Grade 7

Unit Title/ Marking Period # (MP): 2

Start day:

Meetings (Length of Unit): 7 days

<i>Desired Results ~ What will students be learning?</i>
<u>Standards of Learning/ Standards</u>
SOL 7.12 The student will represent relationships with tables, graphs, rules, and words.
<u>Essential Understandings/ Big Ideas</u>
What are the different ways to represent the relationship between two sets of numbers? Rules that relate elements in two sets can be represented by word sentences, equations, tables of values, graphs or illustrated pictorially.
<u>Key Essential Skills and Knowledge</u>
Describe and represent relations and functions, using tables, graphs, rules, and words. Given one representation, students will be able to represent the relation in another form.

<u>Vocabulary</u>	
<u>Academic Vocabulary</u>	<u>Content Vocabulary</u>
Relation Function Coordinate Grid Ordered Pairs/ Coordinates Input/Output Table Linear Equation	Simplify Model Illustrate Identify Evaluate
<i>Assessment Evidence ~ What is evidence of mastery? What did the students master & what are they missing?</i>	
<u>Assessment/ Evidence</u>	
Interactive Achievement 5 – 10 questions Gizmo Assessments	
<i>Learning Plan ~ What are the strategies and activities you plan to use?</i>	
<u>Learning Experiences/ Best Practice</u>	
Teacher Resources: <ul style="list-style-type: none"> • Use Frayer Model and/or Marzano for new vocabulary terms • Task Cards to review concepts when students are finished working on an activity • Review the Coordinate Plane and the parts of the Coordinate Plane • Make sure student are able to graph and identify ordered pairs 	

Interactive Skill Practice:

- [Function Games](#)
- [Functions](#)

Technology Integrations

Technology:

[Gizmo Lessons:](#)

Function Machine 1
Function Machine 2
Function Machine 3
Introduction to Functions

[BrainPop:](#)

Graphing Linear Equations
Coordinate Plane (Review)

Resources

Text:

Virginia Math Connects, Course 2, ©2012, Price, et al, McGraw-Hill School Education Group 1:

Function s, page(s) 377 – 395; 405- 415

Virginia, SOL Coach, New Gold Edition, Mathematics, Grade 7,

Relations, page(s) 170 – 177

Other Sites:

Lesson Plans and Activities:

- [Investigating Linear Functions](#)
- [Walking to Class](#)
- [Function Machines](#) – Interactive Instructional Resource

Cross Curricular Connection

Materials

Manipulatives

Coordinate Grids
Function Machine Diagram
Input/Output Tables

Technology Resources

LCD Projector
Speakers
Computer w/Internet Connection and SmartBoard
Software
SmartBoard
Computer Cart

Student Supplies

Whiteboards/Markers
Frayer Model/ Marzano
Interactive Student Notes