Algebra 2
Unit Plan

Unit 1 - Linear Equations, Inequalities, Functions, and Systems
Chapter 1

	Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**
Section	Chapter 1.0 - Skill Review and Unit Intro	Chapter 1.1 - pg 2-9	Chapter 1.2 - pg 10-17	Chapter 1.3 - pg 18-25	QUIZ ENRICHMENT DAY
Objective	Practice and review simplifying numerical expressions, using formulas, and writing algebraic equations	Understand the properties of real numbers and operations so they can be ordered and evaluated	Be able to evaluate and simplify expressions involving real numbers	Introduction to solving linear equations	Assess understanding of 1.0-1.3 and apply to enrichment problems
Instruction	Use clicker for immediate response to questions on pg xxiv	Differentiated Lesson plan. Work Examples 1 and 2 in class. Assign small groups based on Day 1 assessment and let each group work through assigned problems and present to class	Graphing Calculator Activity 1.2.	Chapter examples 1-4 in class including guided practice. Differentiated small groups solving various degrees of equations.	Quiz over Chapter 1.1-1.33. Assign Enrichment problems to be worked on during class
Math Standards		7.2.3.1, 7.2.3.3	7.2.3.2, 7.2.3.3	7.2.4.1	
Assignment (Each of these should be worked out by the teacher)	Online (see resources)	pg 6: 3-21 odd	pg 13: 6-10 p14 17-55 odd, 58, 60	pg 21-22: 23-53 odd, 69, 72	

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	Day 6	Day 7	Day 8	Day 9	Day 10
Section	Chapter 1.4 - pg 26-33	Chapter 1.5 - pg 34-40	Chapter 1.6 - pg 41-49	Chapter 1.7 - 50-58	QUIZ ENRICHMENT DAY
Objective	Practice rewriting formulas and equations in order to solve for vairous variables	Apply problem strategies and models	Learn to solve linear inequalities using graphs and number lines to better understand data ranges	Understand absolute values and how to solve equations with absolute values	Assess understanding of Chapter 1.4-1.7. Apply strategies to enrichment problems.
Instruction	Differentiated Lesson Plan. Group 1 guided practice. Group 2 independent practice. Group 3 enrichment problems	Word problem day. Work 2 examples on the board. Assign small groups various problems and let them present to the class	Examples 1-6 in class. Complete the number line project of page 48	Examples 1-6 in class focusing on changing the inequality sign when multiplying by a negative.	Quiz over Chapter 1.4-1.7. Assign enrichment problems to work during remainder of class
Math Standards	7.2.3.3	8.2.1.2	8.2.4.5	8.2.4.6	
Assignment (Each of these should be worked out by the teacher)	pg 30-31: 7-15 odd, 18-20, 21-31 odd, 33,34	pg 39: 24-33	pg 44-45: 3-47 odd	pg 55-56: 1-61 odd	

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Chapter 2

	Day 11	**Day 12**	**Day 13**	**Day 14**	**Day 15**
Section	Chapter 1 Review	CHAPTER 1 TEST	Introduction to Trimester Project	Chapter 2.1 - pg 71-81	Project work day and Math Games
Objective	Review Chapter 1 concepts and strategies in class	Assess understanding of Chapter 1	Projects are small group collaborative research projects on Math history, people, or enrichment topics	Understand relations and fuctions and be able to represent linear functions	Project time and Math Fun
Instruction	Use additional problems to work through in class. Review key concepts and strategies	After handing in test, students get and brain teaser puzzle to work on.	Show examples of projects, set expectations for participation, scope of work, and time line objectives.	Use real world data such as population growth etc to understand concepts of representing relations	Let small groups have access to materials for projects. Play math jeapordy as a way to introduce functions.
Math Standards				8.2.4.7	
Assignment (Each of these should be worked out by the teacher)	Chapter review Handout		Read Chapter 2.1	pg 76-77: 3-13 odd, 14-23, 25-39 odd	Read Chapter 2.2. Review posted Chapter notes - pg 86: 3-27 odd

Resources:	1) Text – McDougal Littell Algebra 2
	2) Day one Online Homework -
	http://www.algebrahelp.com/worksheets/view/simplifying/multiplesigns.quiz
	http://www.algebrahelp.com/worksheets/view/equationbasics.quiz
	3) Enrichment problems:
	http://www.classzone.com/books/algebra_2/pdfs/2_01_1ec.pdf
	http://www.classzone.com/books/algebra_2/pdfs/2_01_2ec.pdf
	http://www.classzone.com/books/algebra_2/pdfs/2_01_3ec.pdf
	Algebra Survival Guide, by John Rappaport

Accommodations:

ADD:
* **Provide checklists for problem solving**
* **Guided handouts for example problems**
* **Interactive presentations on Days 11 & 15**
* **Rules for classroom behavior posted in the front of the class**
* **Small group activities on Days 2, 4, 6**

ELL
* **Provide extra time for translation**
* **Teach in routines during the class**
* **Present in multiple methods**
* **Active glossary**
* **Word wall-Vocabulary Attached**
* **Small groups**

High Achieving Students
* **Enrichment problems**
* **Differentiated instruction with advanced concepts**
* **More focus on word problems and advanced solving**
* **Have them help struggling learners**