

PCSD Lesson Planning Template

<u>Grade Level</u> 9th Algebra I		<u>Teacher/Room</u> : S. Pinson/Room 182		Week of: September 12-16, 2016	
Unit Vocabulary: see attached					
Instructional Strategies Used: direct instruction, independent study, interactive instruction, partners					
Day 1	Day 2	Day 3	Day 4	Day 5	
Common Core Standard(s): MGSE9-12.A.CED.1 Create equations and inequalities in one variable and use them to solve problems.	GSE/GPS Standard(s): MGSE9-12.A.REI.3 Solve linear equations and inequalities in one variable including equations with coefficients represented by letters	GSE/GPS Standard(s): MGSE9-12.A.REI.3 Solve linear equations and inequalities in one variable including equations with coefficients represented by letters	GSE/GPS Standard(s): All that we have covered so far.	GSE/GPS Standard(s): All that we have covered so far.	
EQ Question: How can you create and solve inequalities in real life applications?	EQ Question: How can you solve for a given variable in a formula or equation with more than one variable?	EQ Question: How can you solve for a given variable in a formula or equation with more than one variable?	EQ Question: All that we have covered so far.	EQ Question: All that we have covered so far.	
Mini Lesson: Order of Operations Activating Strategies: Pair Activity – Expressions Card Sort Lesson: Creating Inequalities from Context (continued) 1. Guided Practice Problems on Creating Inequalities 2. Assignment Resource/Materials: Powerpoint, worksheets, card sort	Mini Lesson: Computer Lab Activating Strategies: Solving Equations Lesson: Solving for a variable 1. PPT (Keeper 6) with guided notes 2. Guided Practice Problems 3. Assignment Resource/Materials: Powerpoint, worksheets	Mini Lesson: Error Analysis – Solving Formulas Activating Strategies: Solving Equations Lesson: Solving for a variable 1. Partners – Rearranging Old Friends 2. Start Reviewing for Friday’s test 3. Assignment – Review Sheet Resource/Materials: Powerpoint, worksheets, review sheets	Mini Lesson: Computer Lab Activating Strategies: Ask the teacher questions Lesson: Review 1. Go over Review Sheet 2. More Problems ppt 3. Jeopardy (groups) https://jeopardylabs.com/play/coordinate-algebra-unit-1 Resource/Materials: Review Sheets, Power point, internet	Mini Lesson: 24 Activating Strategies: Ask the teacher questions Lesson: Review and Test 1. Collect Friday WS 2. Quick Review 3. Test: Unit 1A Resource/Materials: tests	
Differentiation: <i>Content/Process/Product:</i> card sort <i>Grouping Strategy:</i> partners <i>Assessment:</i> Friday quiz	Differentiation: <i>Content/Process/Product:</i> guided notes, USATestPrep <i>Grouping Strategy:</i> <i>Assessment:</i>	Differentiation: <i>Content/Process/Product:</i> <i>Grouping Strategy:</i> heterogeneous <i>Assessment:</i> informal	Differentiation: <i>Content/Process/Product:</i> <i>Grouping Strategy:</i> Random <i>Assessment:</i>	Differentiation: <i>Content/Process/Product:</i> <i>Grouping Strategy:</i> <i>Assessment:</i>	
Assessment : <i>Formative:</i> thumbs up/down <i>Summative:</i>	Assessment : <i>Formative:</i> thumbs up/down, USATestPrep <i>Summative:</i>	Assessment : <i>Formative:</i> thumbs up/down <i>Summative:</i>	Assessment : <i>Formative:</i> thumbs up/down, USATestPrep <i>Summative:</i>	Assessment : <i>Formative:</i> thumbs up/down <i>Summative:</i> Unit 1A Test	
Homework: WS: Inequality Word Problems and Solving Inequalities Practice	Homework: WS: Day8Isolating a Variable	Homework: WS : Day9 Solving Formula for a Variable	Homework: review sheet	Homework: none	

PCSD Lesson Planning Template

Algebra: The branch of mathematics that deals with relationships between numbers, utilizing letters and other symbols to represent specific sets of numbers, or to describe a pattern of relationships between numbers.

Binomial Expression: An algebraic expression with two unlike terms.

Capacity: The greatest volume that a container can hold.

Circumference: The distance around a circle.

Coefficient: A number multiplied by a variable.

Constant Term: A quantity that does not change its value.

Expression: A mathematical phrase involving at least one variable and sometimes numbers and operation symbols.

Factor: When two or more integers are multiplied, each integer is a factor of the product. "To factor" means to write the number or term as a product of its factors.

Integer: The set of numbers ..., -3, -2, -1, 0, 1, 2, 3, ...

Irrational Number: A number whose decimal form is nonterminating and nonrepeating. Irrational numbers cannot be written in the form a/b , where a and b are integers (b cannot be zero). So all numbers that are not rational are irrational.

Monomial Expression: An algebraic expression with one term.

Perimeter: The sum of the lengths of the sides of a polygon.

Polynomial function: A polynomial function is defined as a function, $f(x) = a_0 x^n + a_1 x^{n-1} + a_2 x^{n-2} + \dots + a_{n-2} x^2 + a_{n-1} x^1 + a_n$, where the coefficients are real numbers.

Pythagorean Theorem: It is a theorem that states a relationship that exists in any right triangle. If the lengths of the legs in the right triangle are a and b and the length of the hypotenuse is c , we can write the theorem as the following equation: $a^2 + b^2 = c^2$.

Radical: The symbol, $\sqrt[n]{a}$, which is read "the n^{th} root of a ," is called a radical.

Radicand: The number underneath the root symbol.

Rational Number: A number expressible in the form a/b or $-a/b$ for some fraction a/b . The rational numbers include the integers.

Standard Form of a Polynomial: To express a polynomial by putting the terms in descending exponent order.

Term: A number, a variable, or a product of numbers and variables.

PCSD Lesson Planning Template

Trinomial: An algebraic expression with three unlike terms.

Variable: A letter or symbol used to represent a number.

Volume: The amount of space occupied by an object.

Whole numbers: The numbers 0, 1, 2, 3,