| Grade Level 9th Algebra I |  | Teacher/Room: S. Pinson/Room 182 | Week of: October 3-7, 2016 |  |
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| Unit Vocabulary: see attached |  |  |  |  |
| Instructional Strategies Used: direct instruction, independent study, interactive instruction, partners |  |  |  |  |
| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| GSE/GPS Standard(s): <br> MGSE9-12.A.CED. 1 Create equations and inequalities in one variable and use them to solve problems. | GSE/GPS Standard(s): <br> MCC9-12.N.Q. 3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities. | GSE/GPS Standard(s): <br> All that we have covered so far. | GSE/GPS Standard(s): <br> MGSE9-12.A.CED. 2 Create <br> equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. | GSE/GPS Standard(s): <br> MGSE9-12.A.CED. 2 Create <br> equations in two or more <br> variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. |
| EQ Question: How can you create proportions and use them to solve problems? | EQ Question: How can you choose appropriate levels of precision and accuracy when solving problems? | EQ Question: All that we have covered so far. | EQ Question: How do I graph equations on coordinate axes with the correct labels and scales? | EQ Question: How do I graph equations on coordinate axes with the correct labels and scales? |
| Mini Lesson: Error Analysis - Solving Equations Activating Strategies: | Mini Lesson: Computer Lab <br> Activating Strategies: Error <br> Analysis - Dimensional Analysis | Mini Lesson: Error Analysis - Solving Formulas <br> Activating Strategies: Ask the teacher questions | Mini Lesson: Computer Lab <br> Activating Strategies: How would you graph this? $x+y=8$ | Mini Lesson: 24 <br> Activating Strategies: Solve for y : $3 x-15 y+21+4 x=42-16 y-2 x-x+3$ |
| and Dimensional Analysis (continued) <br> 1. Go over Friday Quiz and homework <br> 2. Guided Practice Problems <br> 3. Assignment-Worksheets, including Friday WS | Lesson: Precision and Accuracy <br> 1. Computer Lab-USATestPrep <br> 2. Finish Dimensional Analysis <br> 3. Classwork: More Practice on Dimensional Analysis (WS More Dimensional AnalysisDay 11) <br> 4. PPT - Precision and Accuracy (Book 2-3) <br> 5. Practice Problems | Lesson: Review <br> 1. More Problems ppt <br> 2. Jeopardy (groups) https://jeopardylabs.com/play/co ordinate-algebra-unit-1 <br> 3. Quiz | Lesson: Graphing, by t-table method <br> 1. Computer Lab <br> 2. Pretest <br> 3. Introduction of Graphing with t-table <br> 4. Guided Practice with Graph Boards <br> 5. Assignment | Lesson: Graphing by slopeintercept method <br> 1. Quiz on Friday WS <br> 2. Powerpoint with Cornell Notes <br> 3. Guided Practice with White Boards <br> 4. Assignment <br> 5. Ticket out the door |
| Resource/Materials: Powerpoint, worksheets | 6. Assignment - WS <br> Resource/Materials: Powerpoint, <br> Worksheets, logins | Resource/Materials: Review <br> Sheets, Power point, internet | Resource/Materials: Graphs, <br> Markers, Power Point, graphic organizers, worksheets | Resource/Materials: Graphs, <br> Markers, Power Point, graphic organizers, worksheets |
| Differentiation: <br> Content/Process/Product: Guided <br> Practice <br> Grouping Strategy: <br> Assessment: informal | Differentiation: <br> Content/Process/Product: USATestPrep Grouping Strategy: Assessment: | Differentiation: <br> Content/Process/Product: Grouping Strategy: Groups Assessment: Informal | Differentiation: <br> Content/Process/Product: graphic organizer, graphing boards Grouping Strategy: Assessment: | Differentiation: <br> Content/Process/Product: Cornell notes, white boards Grouping Strategy: Assessment: |
| Assessment : <br> Formative: thumbs up/down Summative: | Assessment : <br> Formative: thumbs up/down Summative: | Assessment : <br> Formative: thumbs up/down Summative: | Assessment : <br> Formative: graph boards, thumbs up/down Summative: | Assessment : <br> Formative: white boards, ticket-out-the-door Summative: |
| Homework: WS Dimensional <br> Analysis (Day 11) | Homework: WS Levels of Accuracy and Define and Interpret Quantities | Homework: none | Homework: worksheets | Homework: worksheets |

## 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.
- Arithmetic Sequence. A sequence of numbers in which the difference between any two consecutive terms is the same.
- Average Rate of Change. The change in the value of a quantity by the elapsed time. For a function, this is the change in the $y$-value divided by the change in the $x$-value for two distinct points on the graph.
- Coefficient. A number multiplied by a variable in an algebraic expression.
- Constant Rate of Change. With respect to the variable $x$ of a linear function $y=f(x)$, the constant rate of change is the slope of its graph.
- Continuous. Describes a connected set of numbers, such as an interval.
- Discrete. A set with elements that are disconnected.
- Domain. The set of $x$-coordinates of the set of points on a graph; the set of $x$-coordinates of a given set of ordered pairs. The value that is the input in a function or relation.
- End Behaviors. The appearance of a graph as it is followed farther and farther in either direction.
- Equation. A number sentence that contains an equals symbol.
- Explicit Formula. A formula that allows direct computation of any term for a sequence $a_{1}, a_{2}, a_{3}, \ldots, a_{n}, \ldots$.
- Expression. Any mathematical calculation or formula combining numbers and/or variables using sums, differences, products, quotients including fractions, exponents, roots, logarithms, functions, or other mathematical operations.
- Factor. For any number $x$, the numbers that can be evenly divided into $x$ are called factors of $x$. For example, the number 20 has the factors 1,2 , $4,5,10$, and 20.
- Inequality. Any mathematical sentence that contains the symbols > (greater than), < (less than), $\leq$ (less than or equal to), or $\geq$ (greater than or equal to).
- Interval Notation. A notation representing an interval as a pair of numbers. The numbers are the endpoints of the interval. Parentheses and/or brackets are used to show whether the endpoints are excluded or included.


## PCSD Lesson Planning Template

- Linear Function. A function with a constant rate of change and a straight line graph.
- Linear Model. A linear function representing real-world phenomena. The model also represents patterns found in graphs and/or data.
- Ordered Pair. A pair of numbers, $(x, y)$, that indicate the position of a point on a Cartesian plane.
- Parameter. The independent variable or variables in a system of equations with more than one dependent variable.
- Range. The set of all possible outputs of a function.
- Recursive Formula. A formula that requires the computation of all previous terms to find the value of an.
- Slope. The ratio of the vertical and horizontal changes between two points on a surface or a line.
- Substitution. To replace one element of a mathematical equation or expression with another.
- Term. A value in a sequence--the first value in a sequence is the 1 st term, the second value is the 2 nd term, and so on; a term is also any of the monomials that make up a polynomial.
- Variable. A letter or symbol used to represent a number.
- X-intercept. The point where a line meets or crosses the $x$-axis
- Y-intercept. The point where a line meets or crosses the $y$-axis

