| Grade Level 9th Algebra IA |  | Teacher/Room: S. Pinson/Room 182 | Week of: August 29 - September 2, 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 |
| Common Core Standard(s): MGSE9-12.A.CED. 1 Create equations and inequalities in one variable and use them to solve problems. | Common Core Standard(s): <br> MGSE9-12.A.CED. 1 Create equations and inequalities in one variable and use them to solve problems. | Common Core Standard(s): MGSE9-12.A.CED. 1 Create equations and inequalities in one variable and use them to solve problems. | Common Core Standard(s): MGSE9-12.A.SSE.1a Interpret parts of an expression, such as terms, factors, and coefficients, in context. | Common Core Standard(s): MGSE9-12.A.REI. 1 Using algebraic properties and the properties of real numbers, justify the steps of a simple, one-solution equation. |
| EQ Question: How do you solve multi-step equations? | EQ Question: How do you solve multi-step equations? | EQ Question: How can you solve multi-step equations? | EQ Question: How do I interpret parts of an expression in terms of context? | EQ Question: How do you justify solving multi-step equations? |
| Mini Lesson: Order of Operations | Mini Lesson: USA Test Prep Computer Lab | Mini Lesson: Properties of Equality | Mini Lesson: USA Test Prep Computer Lab | Mini Lesson: Order of Operations |
| Activating Strategies: <br> Challenging Equations (Groups) | Activating Strategies: <br> Right/Wrong: Given a solution, students need to decide if it was solved correctly. | Activating Strategies: Questions for the Teacher | Activating Strategies: Pair <br> Activity - Solving Equations | Activating Strategies: Person <br> Puzzle - Angélique Kidjo (Evaluating Expressions) - partners |
| Lesson: Solving proportions <br> 1. Go over last Friday's WS <br> 2. Steps on solving equations(graphic organizer) <br> 3. Guided Practice Problems <br> 4. Assignment <br> 5. Friday Worksheet | Lesson: Review for Unit 0 Test <br> 1. Review Properties with Power Pt <br> 2. Classwork - Review Sheet <br> 3. Go over review sheet | Test: Unit 0 - Solving Equations | Lesson: Algebraic Expressions evaluate and review vocabulary <br> 1. Notes <br> 2. Guided Practice Problems on evaluating expressions <br> 3. Assignment <br> 4. Ticket-out-the-door | Lesson: Justifying Solving <br> Equations <br> 1. Collect Friday Worksheet <br> 2. Quiz over Friday WS <br> 3. Guided practice over justifying <br> 4. Assignment |
| Resource/Materials: Powerpoint, worksheets, graphic organizer | Resource/Materials: <br> Powerpoint, worksheets | Resource/Materials: <br> Powerpoint, tests | Resource/Materials: <br> Powerpoint, worksheets | Resource/Materials: Quizzes, worksheets |
| Differentiation: <br> Content/Process/Product: graphic organizer, guided practice Grouping Strategy: heterogeneous Assessment: Friday WS | Differentiation: <br> Content/Process/Product: graphic organizer, USATestPrep Grouping Strategy: Assessment: | Differentiation: <br> Content/Process/Product: graphic organizer <br> Grouping Strategy: <br> Assessment: | Differentiation: <br> Content/Process/Product: graphic organizer, USA Test Prep Grouping Strategy: partners Assessment: informal | Differentiation: <br> Content/Process/Product: graphic organizer <br> Grouping Strategy: partners Assessment: Friday WS |
| Assessment : <br> Formative: thumbs up/down Summative: | Assessment : <br> Formative: thumbs up/down Summative: | Assessment : <br> Formative: thumbs up/down Summative: Test - Unit 0 | Assessment : <br> Formative: ticket-out-door Summative: | Assessment : <br> Formative: thumbs up/down, quiz Summative: |
| Homework: WS :Solving Proportions | Homework: Study!! | Homework: none | Homework: WS: Day1 Algebraic Expressions | Homework: WS:Day4 Justifying <br> Steps in Solving Equations |

- 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.
- 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.
- 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 $0,1,2,3, \ldots$.

