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| Grade Level 9th Algebra I  | **Teacher/Room**: L.Payne/Room 181 Week of: August 15 – August 19, 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.S.ID.1****MGSE9-12.S.ID.2****MGSE9-12.S.ID.3****MGSE9-12.S.ID.5** | **Common Core Standard(s)**:**MGSE9-12.S.ID.1****MGSE9-12.S.ID.2****MGSE9-12.S.ID.3****MGSE9-12.S.ID.5** | **Common Core Standard(s)**:**MCC9‐12.A.SSE.1** Interpret expressions that represent a quantity in terms of its context. | **Common Core Standard(s)**:**MCC9‐12.A.SSE.1** Interpret expressions that represent a quantity in terms of its context. | **Common Core Standard(s)**:**MGSE9-12.A.REI.3** Solve linear equations and inequalities in one variable including equations with coefficients represented by letters. |
| **EQ Question**: How do I best represent data? | **EQ Question:** How do I best represent data? | **EQ Question**: How can you use variables to write an expression that represents a quantity in terms of its context? | **EQ Question**: How can you use variables to write an expression that represents a quantity in terms of its context? | **EQ Question**: How can you use addition and subtraction to solve equations? |
| **Mini Lesson:** 24**Activating Strategies:** What is it?**Lesson:** 1. Review Sheet
2. Review Game

**Resource/Materials:** Powerpoint, review sheets | **Mini Lesson**: vocab**Activating Strategies:** Ask the teacher questions**Lesson**: 1. Quick Review
2. **Test :Data Unit A**
3. Friday Worksheets

**Resource/Materials:** tests, Friday worksheets | **Mini Lesson:** Pre-Test for Unit 0**Activating Strategies:** 2 Chuck Norris + 3 Chuck Norris = ?**Lesson**: Identifying Parts of an Expression; Combining Like Terms1. <http://www.khanacademy.org/> math/cc-sixth-grade-math/cc-6th-expressions-and-variables/cc-6th-equivalent-expressions/v/combining-like-terms
2. Identifying the parts of an expression, using guided notes
3. Combining like terms notes
4. Assignment: KUTA WS

**Resource/Materials:** Powerpoint, Guided Notes, Worksheets | **Mini Lesson:** Partner Activity – Exploration Variables and Expression**Activating Strategies:** Words describing mathematical operations**Lesson**: Translating verbal expressions to algebraic expressions1. Notes on translating verbal to algebraic (graphic organizer)
2. Practice Problems
3. Assignment-packet
4. Ticket out the door

**Resource/Materials:** Powerpoint, Graphic Organizers, WS | **Mini Lesson:** Partner Activity – matching expressions**Activating Strategies:** Right/Wrong.**Lesson:** Solving simple equations1. Steps on solving equations
2. Guided Practice Problems
3. Assignment

**Resource/Materials:** Powerpoint, worksheets |
| **Differentiation:***Content/Process/Product:* *Grouping Strategy:* *Assessment:*  | **Differentiation:***Content/Process/Product:* *Grouping Strategy:* *Assessment:*  | **Differentiation:***Content/Process/Product:* guided notes*Grouping Strategy:* *Assessment:* informal | **Differentiation:***Content/Process/Product:* graphic organizer*Grouping Strategy:* partners*Assessment:* pre-test | **Differentiation:***Content/Process/Product:* *Grouping Strategy:* partners*Assessment:* pre-test |
| **Assessment :***Formative:* thumbs up/down*Summative:*  | **Assessment :***Formative:* *Summative:* Test- Data Unit A | **Assessment :***Formative:* thumbs up/down*Summative:*  | **Assessment :***Formative:* ticket out the door*Summative:*  | **Assessment :***Formative:* thumbs up/down*Summative:*  |
| **Homework:** study | **Homework:** work on Friday WS | **Homework:** Day2Combining Like TermsWorksheet | **Homework:** Day3 Parts Of Expression And Translating WS | **Homework:** Solving Equations WS |

* **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, ….