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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 Terms   1. <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 expressions   1. 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 equations   1. 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, ….