**Math Unit 4: Expressions and Equations (4-6 weeks)**

**Week 6: 3/2 - 3/6**

3/2 - Math Mobiles

YWBAT use mobiles to show the relationships of balance and equivalence

Success is: determining the value of each shape in the mobile

* Show students images of mobiles created by Alexander Calder
  + what do mobiles have to have? BALANCE!
* Show students the math mobile
  + discuss what they notice
* In table groups, students try to determine the value of each shape
  + discuss strategies
* Challenge: can you use math mobiles to solve 3m + 1 = m + 9
  + 3x – 2 = x + 4
* Students try to solve puzzles 1-4 in pairs/small groups
* Re-visit goals
* Exit ticket: make your own mobile

3/3 - Lessons 23 and 24: True and False Number Sentences

YWBAT explain what the equality and inequality symbols represent

Success is: determine if a number sentence is true or false based on the given symbol

* Correct homework
* Opening exercise: what do *true* and *false* mean?
  + Discuss/define equality and inequality symbols
* Example 1: determining if a number sentence is true or false based on the given symbol
* Exercises 1-10 independently/small group
* Closing: go over/discuss answers
* Example 2
* Exercises 1-12
* Closing/Re-visit goals
* Exit Ticket

3/4 - Lesson 26: One-Step Equations – Addition and Subtraction

YWBAT solve one-step equations by relating an equation to a diagram

Success is: checking to determine if your solutions make the equation true

* Correct homework
* Matching game from lesson 25: equations and their solutions
* Opening exercise: mathematical modeling
* Exercise 1: solving addition equations using tape diagrams
* Exercise 2: solving subtraction equations using tape diagrams
* Exercise 3: solving equations using tape diagrams in pairs/small group
* Closing/Re-visit goals
* Exit ticket

3/5 - Lesson 27: One-Step Equations – Multiplication and Division

YWBAT solve one-step equations by relating an equation to a diagram

Success is: checking to determine if your solutions make the equation true

* Correct homework
* Fluency exercise: division of fractions
* Example 1: solving multiplication equations using tape diagrams
* Example 2: solving division equations using tape diagrams
* Exploratory Challenge: solving equations using tape diagrams and algebra in pairs
  + display solutions and thinking on poster paper
  + share/present
* Closing/Re-visit goals
* Exit ticket

3/6 - Lesson 28: Two-Step Problems – All Operations

YWBAT calculate the solutions of two-step problems using order of operations and properties of equality

Success is: checking to determine if your solutions make the equation true

* Correct homework
* Fluency exercise: addition of decimals
* Mathematical modeling exercise
* Example 1: solving two-step problems
* Exercises: independently/small group
* Closing: go over/discuss answers
* Re-visit goals
* Exit Ticket