**Math Unit 2: Arithmetic Operations (4-6 weeks)**

**EQ: HOW can mathematical ideas be represented?**

**Week 2: 11/11 – 11/15**

11/11 – The Relationship Between Visual Fraction Models and Equations

YWBAT formally connect models of fraction division to multiplication and the invert-and-multiply rule, in particular

Success is: dividing fractions using the algorithm

* Vocabulary: multiplicative inverse and reciprocal
  + Example: ⅔ ÷ 7/9
* Keep Switch Flip card game
* “One Big Egg” art sheet
* Re-visit goals
* Exit ticket from lesson 7

11/12 – The Relationship Between Visual Fraction Models and Equations

YWBAT formally connect models of fraction division to multiplication and the invert-and-multiply rule, in particular

Success is: dividing fractions using the algorithm

* Correct homework
* Algorithm/vocabulary practice
  + Solve on desk with a model and algorithm (3 ÷ ⅔, ⅘ ÷ 2, 1 ⅜ ÷ ⅝ )
* Word problems
  + Model thinking on first word problem (what I have and am dividing up? How am I splitting it up? What would the division sentence here be?)
  + Problem 2 in pairs
  + Problem 3 and 4 independently
* Finish “egg”

11/13 – Dividing Fractions and Mixed Numbers: Lesson 8

YWBAT divide fractions by mixed numbers by first converting the mixed numbers into an improper fraction

Success is: use equations to find quotients

* Correct homework
* Warm up – estimation practice
* Practice: example 1
* In groups: memory game
* Independent/guided practice: problem set
* Re-visit goals

11/14 - Fraction computation quiz