Parent and Student clear expectations letter 803, 804, & 807...

This unit begins with a review of the 7th grade skills of solving two-step equations using inverse operations (integers only). The difficulty level of the equations increases from two-steps to multi-steps and from integer coefficients only to including decimal and fractions, at times both representations of numbers in the same

As the unit progress, students will experience equations with variables on both sides, again at first with integer coefficients to ease the transition into the new skill and then with rational coefficients.

The expectation is the students build an understanding that in solving an equation they are reversing the convention of the Order of Operations that they use to simplify/evaluate an equation/expression.

Computation skills with rational numbers are strengthened during this unit, as the majority of the calculations will be computed without a calculator. Students should be aware of when to distribute the negative (which is a common error at this stage). Students will be provided instruction on the use of the fraction keys, converting fraction to decimal keys and simplifying fraction keys on a calculator. Students will be instructed on how and when to use the negative sign key as opposed to the minus sign key. TARGET A: I can solve two-step equations TARGET B/C: I can solve multi-step with rational coefficients. equations with rational coefficients.

- 1. Solve two-step equations with integers identifying inverse operations
- 2. Write 2 step equations from description (integers
- 3. Translating verbal into algebraic multi-step equations
- 4. Solve 2 step decimals, fractions...
- 5. Solve 2 steps with one decimal and one fraction
- 6. Mastery Quiz A write and solve two step equations with rational coefficients (no calculator)
- 7. Teacher Task/Assessment TBD

TARGET C: I can solve multi-step equations with rational coefficients.

- 1. Solve multi-step equations with rational coefficients (distribute and combine) with calculator
- 2. Write and solve multi-step equations with rational coefficients
- 3. Mastery Quiz C- Solve multi-step equations with rational coefficients
- 4. Teacher Task/Assessment-TBD

TARGET E: I can solve volume equations

- 1. Solve volume of a cone problems (skill practice)
- 2. Solve volume of a cone problems application practice
- 3. Mastery Quiz E- Volume of cone and cylinder problems
- 4.

- 1. Solve multi-step (with combining like terms integer and rational coefficients)
- 2. Solve multi-step (with distributive property and combining like terms - integer coefficients only) without calculator
- 3. Write multi-step problems integer coefficients only
- 4. Mastery Quiz B- (MC) solve equations with integer coefficients that include the distributive property and combining like terms (no calculator)

TARGET D: I can solve multi-step equations with variables on both sides

- 1. Solve equations with variables on both sides
- 2. Write and solve equations with variables on both sides
- 3. Mastery Quiz D- Write and solve equations with variables on both sides
- 4. Teacher Task/Assessment TBD

Teacher Task/Assessment - TBD	
Parent Signature:	Date: