## Algebra Readiness - "Understanding Balance" Essential Standards

Grades K - 7

| Kindergarten | $1^{\text {st }}$ Grade | $\mathbf{2 n d}^{\text {nd }}$ Grade | $\mathbf{3}^{\text {rd }}$ Grade |
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| $4^{\text {th }}$ Grade | $5^{\text {th }}$ Grade | $6^{\text {th }}$ Grade | $7^{\text {th }}$ Grade |
| :---: | :---: | :---: | :---: |
| AF 1.2 <br> I can understand and solve a mathematical expression with parentheses. Ex: (28-10) - 8 or 28-(10-8) <br> AF 1.3 <br> I can place parentheses in a multi-step expression to show which operation should be done first. <br> AF 1.5 I can solve for x or y (in an equation $y=3 x+5$ ) when the other variable is given. <br> AF 2.1 <br> I understand that if I add the same value to each side of an equation, the two sides will remain equal. <br> AF 2.2 <br> I understand that if I multiply the same value to each side of an equation, the two sides will remain equal. | AF 1.2 <br> I can use a variable (letter) to represent an unknown number. <br> By substituting in a value, I can write and solve algebraic expressions with one variable. <br> AF 1.3 <br> I know and can use the distributive property in equations and expressions with variables, such as: $8 \times 37=(8 \times 30)+(8 \times z)$ | AF 1.1 <br> I can write and solve onestep linear equations with one variable. <br> AF 1.3 <br> I can apply algebraic order of operations and the commutative, associative, and distributive properties to evaluate expressions. I can justify my thinking in each step of the problem. | AF 1.3 <br> I can simplify numerical expressions (and equations) by applying properties of rational numbers (identity, inverse, distributive, associative, commutative) and justify the process used. <br> AF 4.1 <br> I can solve two-step liner equations and inequalities in one variable over the rational numbers, interpret the solution or solutions in the context from which they arose, and verify the reasonableness of the results. |

