Unit 1: Introduction to Algebra

- ☐ Solve multi-step equations. Including two-step, like terms in one expression, variables in both expressions, literal equations, fractions/decimals, distributive property
- ☐ Solve equations with no solution or all real numbers as a solution.
- ☐ Determine if given number properties are true for all real numbers or no real numbers.
- ☐ Construct number properties using formulas and number sense. (memorization of properties should not be the focus)
- ☐ Identify an arithmetic sequence.
- ☐ Distinguish between an arithmetic and geometric sequence
- ☐ Find future values of an arithmetic sequence using both the recursive and explicit formulas.
- ☐ Find missing values from the explicit formula if given specific parts of an arithmetic sequence.
- ☐ Model and solve basic word problems (including problems involving circles, geometry, and number sense)
- ☐ Solve and graph two step inequalities.
- ☐ Solve and graph compound inequalities.
- ☐ Solve and graph Absolute Value equations.
- ☐ Solve and graph Absolute Value Inequalities.
- ☐ Solve basic Absolute value equation/inequality word problems in the form lx-ml=n
- ☐ Understand the properties of an Absolute Value equation