Math 6+: Algebraic Concepts
Equations and Inequalities

Inequalities

Students	Learning Continuum Statements:
Students:	**RIT 211-220:** • Determines whether a linear equation or inequality is true for a given value of the variable
Students:	**RIT 221-230:** • Determines whether a linear equation or inequality is true for a given value of the variable • Identifies an ordered pair that is a solution to a two-variable linear inequality • Solves one-step linear inequalities with positive rational numbers • Writes a multi-step linear inequality in one variable to represent a real-world or mathematical context • Writes a one-step linear inequality in one variable to represent a real-world or mathematical context • Writes a two-step linear inequality in one variable to represent a real-world or mathematical context
Students:	**RIT 231-240:** • Determines whether a linear equation or inequality is true for a given value of the variable • Identifies an ordered pair that is a solution to a two-variable linear inequality • Represents the solutions of a two-variable absolute value inequality on the coordinate plane • Solves one-step linear inequalities with negative rational numbers • Solves two-step linear inequalities • Writes a compound inequality to represent a real-world or mathematical context • Writes a linear inequality in two variables to represent a real-world or mathematical context • Writes a linear inequality to represent a region on the coordinate plane • Writes a multi-step linear inequality in one variable to represent a real-world or mathematical context • Writes a one-step linear inequality in one variable to represent a real-world or mathematical context • Writes a quadratic inequality in one variable to represent a real-world or mathematical context • Writes a two-step linear inequality in one variable to represent a real-world or mathematical context • Writes an inequality in the form $x > c$ or $x < c$ to represent a real-world or mathematical context • Writes and solves a one-step linear inequality in one variable involving a real-world or mathematical context

Students: **RIT 241-250:**

- Determines whether an absolute value equation or inequality is true for a given value of the variable
- Identifies an ordered pair that is a solution to a two-variable linear inequality
- Represents an inequality in the form x>c or x<c on a number line given a real-world or mathematical context
- Represents the solutions of a compound linear inequality on a number line
- Represents the solutions of a one-step linear inequality on a number line
- Represents the solutions of a two-step linear inequality on a number line
- Represents the solutions of an absolute value inequality on a number line
- Solves multi-step linear inequalities
- Solves one-step linear inequalities with negative rational numbers
- Solves two-step linear inequalities
- Writes a compound inequality to represent a real-world or mathematical context
- Writes a compound inequality to represent a set of real numbers shown on a number line
- Writes a multi-step linear inequality in one variable to represent a real-world or mathematical context
- Writes a multi-step rational inequality in one variable to represent a real-world or mathematical context
- Writes a one-step linear inequality in one variable to represent a real-world or mathematical context
- Writes a two-step linear inequality in one variable to represent a real-world or mathematical context
- Writes an inequality in the form x > c or x < c to represent a real-world or mathematical context
- Writes an inequality in the form x>c or x<c to represent a set of real numbers shown on a number line
- Writes and solves a one-step linear inequality in one variable involving a real-world or mathematical context

Students: **RIT 251-260:**

- Determines whether an absolute value equation or inequality is true for a given value of the variable
- Represents a compound inequality on a number line given a real-world or mathematical context
- Represents the solutions of a multistep linear inequality on a number line
- Represents the solutions of a two-step linear inequality on a number line
- Represents the solutions of a two-variable linear inequality on the coordinate plane
- Represents the solutions of an absolute value inequality on a number line
- Solves absolute value inequalities
- Solves compound linear inequalities
- Solves multi-step linear inequalities
- Solves one-step linear inequalities with negative rational numbers
- Solves two-step linear inequalities
- Writes a compound inequality to represent a real-world or mathematical context
- Writes a compound inequality to represent a set of real numbers shown on a number line
- Writes an inequality in the form x>c or x<c to represent a set of real numbers shown on a number line

Students:	**RIT 261-270:** • Represents the solutions of a multistep linear inequality on a number line • Represents the solutions of a two-variable linear inequality on the coordinate plane • Represents the solutions of a two-variable quadratic inequality on the coordinate plane • Represents the solutions of an absolute value inequality on a number line • Solves absolute value inequalities • Solves compound linear inequalities • Solves multi-step linear inequalities • Solves quadratic inequalities • Writes an absolute value inequality to represent a real-world or mathematical context • Writes an exponential inequality in one variable to represent a real-world or mathematical context
Students:	**RIT 271-280:** • Represents the solutions of a quadratic inequality on a number line • Represents the solutions of an absolute value inequality on a number line • Solves absolute value inequalities • Writes an absolute value inequality to represent a real-world or mathematical context • Writes an absolute value inequality to represent a set of real numbers shown on a number line