

Standard(s)	<p><u>Reason about and solve one-variable equations and inequalities.</u></p> <p>MGSE6.EE.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.</p> <p>MGSE6.EE.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p>MGSE.6.EE.7 Solve real-world and mathematical problems by writing and solving equations of the form $x+p = q$ and $px = q$ for cases in which p, q and x are all nonnegative rational numbers.</p> <p>MGSE.6.EE.8 Write an inequality of the form $x < c$ or $x > c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x < c$ or $x > c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams. Represent and analyze quantitative relationships between dependent and independent variables.</p> <p>MGSE6.EE.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another.</p> <p>a. Write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable.</p> <p>b. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation to represent the relationship between distance and time.</p>				
Essential questions Or "I Can..." statements	<p><u>Monday</u></p> <p>How can I tell the difference between an expression, equation and an inequality?</p> <p>How are the solutions of equations and inequalities different?</p>	<p><u>Tuesday</u></p> <p>I can solve and graph one-step inequalities with positive, rational numbers.</p>	<p><u>Wednesday</u></p> <p>I can solve and graph one-step inequalities with positive, rational numbers.</p>	<p><u>Thursday</u></p> <p>I can write, interpret, manipulate, and solve equations and inequalities.</p>	<p><u>Friday</u></p> <p>I can write, interpret, manipulate, and solve equations and inequalities.</p>
Warm-up	#90	#91	#92	#93	#94
Opening	Welcome back! Review a couple equations, pass out graded tests for students that didn't get it back before the break.	Review homework	https://www.brainpop.com/math/algebra/graphingandsolvinginequalities/	Review homework	
Work Session	-intro inequalities with notes sheet, graph inequalities on the back	-rewriting and graphing -inequality chart	-solving inequalities -graphing handout, 14 problems but numbered funny	-cereal activity Students will solve and graph 4 inequalities on construction paper using cereal and yarn for their graph.	-4 question quiz! -cut & paste activity
Homework	Weekly sheet- week 19				NONE
Closing	https://www.brainpop.com/math/algebra/inequalities/			There will be a quiz tomorrow with 4 questions similar to today's activity!	No school Monday, Test next Thursday!
Assessment for understanding	Formative-calling on students	Formative-calling on students, walking around to check chart	Formative- review graphs aloud or on board, ask students to self-check paper	Formative-check activity	Formative-grade quiz for accuracy. Check cut & paste

Unit 4 plan: <https://www.georgiastandards.org/Georgia-Standards/Frameworks/6th-Math-Unit-4.pdf>

Page 19 and 20 have a task that helps with writing equations.