

Topic: UNIT 6 SOLVING and GRAPHING LINEAR INEQUALITIES

Days: 10

Subject(s):

Grade(s):

Know:

Understand:

Do:

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| Key vocabulary<br>Inequalities<br>solutions<br>Graph of inequalities | How to manipulate<br>inequalities<br>algebraically and<br>graphically in order to<br>make predictions. | Solve linear inequality using addition and subtraction then graph the solution. Solve linear inequality using multiplication and division then graph the solution. Solve linear inequality using multi-steps of addition, subtraction, multiplication and division then graph the solution. Solve compound inequalities. Graph a linear inequality in two variables. |
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Which standards are students learning in this unit?

MA.912.A.3.4: Solve and graph simple and compound inequalities in one variable and be able to justify each step in a solution.

MA.912.A.3.5: Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.

MA.912.D.7.2 Use Venn diagrams to explore relationships and patterns and to make arguments about relationships between sets.

MA.912.A.3.12: Graph a linear equation or inequality in two variables with and without graphing technology. Write an equation or inequality represented by a given graph.