

Central R-III Curriculum Form

Algebra	Subject/Unit of Instruction:Unit 4: Writing and Solving Systems of Equations and Inequalities	
Pacing: 4 weeks = 20 days	<p>Priority Standard:</p> <p>A1.REI.C.6 Explain that the graph of an equation in two variables is the set of all its solutions plotted in the Cartesian coordinate plane.</p> <p>A1.REI.C.8 Solve problems involving a system of linear inequalities.</p> <p>Supporting Standards:</p> <p>A1.CED.A.2 Create and graph linear, quadratic and exponential equations in two variables.</p> <p>A1.CED.A.3 Represent constraints by equations or inequalities and by systems of equations or inequalities, and interpret the data points as a solution or non-solution in a modeling context.</p> <p>A1.REI.B.3 Solve a system of linear equations algebraically and/or graphically.</p> <p>A1.REI.B.4 Solve a system consisting of a linear equation and a quadratic equation algebraically and/or graphically.</p> <p>A1.REI.B.5 Justify that the technique of linear combination produces an equivalent system of equations.</p>	
<p>Learning Activities:</p> <p>https://drive.google.com/drive/folders/0ByJCUTMeRhEERG1SdUo0V1QzS0E?usp=sharing</p> <p>Learning Target: Students will be able to solve systems of equations by Graphing, Substitution, or Elimination. Students will also be able to graph linear inequalities and solve systems of inequalities by graphing.</p> <p>Success Criteria: (I can statements)</p> <ul style="list-style-type: none">• I Can graph two linear equations and find the solution (intersection point)• I Can solve a system and find the solution by using the substitution method• I Can solve a system and find the solution by using the elimination method• I Can solve a system using all 3 methods above and compare so we can visualize the meaning behind the solutions.• I Can apply the process to story problems and have students connect the story to a system• I Can graph a linear inequality with a solid or dotted line and shade the appropriate section (1 of 2 sections)• I Can graph a system of inequalities by graphing two lines (dotted or solid depending on sign) and shade the appropriate section (1 of 4 sections)• I Can apply the processes and procedures of systems of equations to real-life/story problems <p>Lesson 1 - Solving Systems by Graphing</p> <p>Lesson 2 - Solving Systems by Substitution</p> <p>Lesson 3 - Solving Systems by Elimination</p>		

<p>Lesson 4 - Applications of Linear Systems</p> <p>Lesson 5 - Graph Linear Inequalities</p> <p>Lesson 6 - Solving Systems of Linear Inequalities by Graphing</p>	
<p>Prerequisite (Prior Skills Set Needed) : Graph a linear equation, solve an equation, solve for a variable, writing compound inequalities, writing a function rule</p>	
<p>Assessment Activities(Formal Assessments): https://drive.google.com/drive/folders/0ByJCUTMeRhEELVVEdVhvbVdfWG8?usp=sharing</p> <p>Bell Ringers</p> <p>Homework assignments</p> <p>White Boards</p> <p>Pre - Test - Solving Systems of Equations and Inequalities</p> <p>Post - Test - Solving Systems of Equations and Inequalities</p> <p>Quiz - Solving Systems of Equations by graphing, substitution, and elimination</p>	<p>Assessments: Pre - Test - Solving Systems of Equations and Inequalities</p> <p>Post - Test - Solving Systems of Equations and Inequalities</p> <p>Quiz - Solving Systems of Equations by graphing, substitution, and elimination</p>
<p>Academic Vocabulary: Substitution Method, Elimination Method, Graphing Method</p>	
<p>Other Resources and Notes: https://dese.mo.gov/sites/default/files/EOC_Algebra_1_Pretest_Session_1.pdf # 21,26,29,34</p> <p>http://wodb.ca/</p> <p>https://www.101qs.com/index.php</p> <p>https://brilliant.org/</p>	