

Common Core State Standards for Mathematics		
Domain: Creating Equations		
Create Equations that Describe Numbers or Relationships (A-CED.1-4)		
High School		
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard. The student will:	Example Activities
3.5	In addition to score 3.0 performance, in-depth inferences and applications with partial success.	
Score 3.0	<p>The student will:</p> <ul style="list-style-type: none"> create equations and inequalities in one variable and use them to solve problems, including quadratic functions and simple rational and exponential functions (A.CED.1) create equations in two or more variables to represent relationships between quantities (A-CED.2) graph equations on coordinate axes with labels and scales (A-CED.2) represent constraints by equations or inequalities and by systems of equations and/or inequalities (A-CED.3) interpret solutions as viable or non-viable options in a modeling context (A-CED.3) <p>The student exhibits no major errors or omissions.</p>	Students will be placed into pairs. They will be given problem situations and their corresponding solutions. Students will be required to determine the reasonableness of the solution set and write a defense of their justification. These writings will be submitted to the teacher for feedback.
2.5	No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content	
Score 2.0	<p>There are no major errors or omissions regarding the simpler details and processes as the student will:</p> <ul style="list-style-type: none"> recognize or recall specific vocabulary, such as: <ul style="list-style-type: none"> perform basic processes, such as: <ul style="list-style-type: none"> rearrange formulas to highlight a quantity of interest (A-CED.4) create linear equations and inequalities in one variable and use them to solve problems (A.CED.1) <p>However, the student exhibits major errors or omissions regarding the more complex ideas and processes.</p>	<u>Snow Ball Fight</u> – Students will participate in an activity that allows them to practice creating and solving linear equations and inequalities. Every student will begin by creating a linear equation or inequality on a blank sheet of paper. The students will then be directed to crumple their paper into a ball and on the teacher’s command, throw the ball across the room in the same manner as a snow ball. Students will be directed to pick up a paper and open it to solve the equation or inequality on the sheet. Once solved the students will create a second equation or inequality and when directed they will throw the paper ball. Students will continue creating and solving problems until the teacher changes the activity.
1.5	Partial knowledge of the 2.0 content but major errors or omissions regarding the 3.0 content	
Score 1.0	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.	
0.5	With help, a partial understanding of the 2.0 content but not the 3.0 content	
Score 0.0	Even with help, no understanding or skill demonstrated.	