|  |  |  |  |
| --- | --- | --- | --- |
| **LG #** | **A103** | **Standards:** | **A-REI.1.1, A-REI.2.3, A-REI.2.4, A-REI.4.10** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.****The student will be able to:*** Create a real world problem that uses a vertical motion model.

**No major errors or omissions regarding the score 4.0 content.** |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. |
| **3.0** | **Students will be able to solve equations and inequalities in one or two variables, and justify reasoning****The student will be able to:*** [Construct a viable argument to justify a solution method.](http://www.cpalms.org/Public/PreviewResource/Preview/60554) ([A-REI.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/58782))
* [Solve one variable equations with coefficients represented by letters. (A-REI.2.3)](http://www.cpalms.org/Public/PreviewResource/Preview/56525)
* Derive the quadratic formula by using completing the square. (A-REI.2.4a)
* Transform any quadratic equation in x into an equation of the form (x – p)² = q that has the same solutions. (A-REI.2.4a)
* [Recognize when the quadratic formula has no real solutions. (A-REI.2.4b)](http://www.cpalms.org/Public/PreviewResource/Preview/59141)
* Solve quadratic equations by factoring. (A-REI.2.4b)
* [Solve quadratic equations using quadratic formula.](http://www.cpalms.org/Public/PreviewResource/Preview/68274) ([A-REI.2.4b](http://www.cpalms.org/Public/PreviewResource/Preview/68316))
* [Solve quadratic equations using completing the square method.](http://www.cpalms.org/Public/PreviewResource/Preview/62553) ([A-REI.2.4b](http://www.cpalms.org/Public/PreviewResource/Preview/62555))
* [Determine the best method for solving a quadratic equation. (A-REI.2.4b)](http://www.cpalms.org/Public/PreviewResource/Preview/58804)

**No major errors or omissions regarding the score 3.0 content (simple or complex).** |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. |
| **2.0** | **The student recognizes and describes specific terminology such as:**

|  |  |  |
| --- | --- | --- |
| * Variable
* Linear Equation
* Quadratic Equation
 | * Coefficient
* Completing the Square
* Quadratic Formula
 | * Complex Number
* Factor
* Linear Inequality
 |
| * Linear Inequality
 |  |  |
|  |  |  |
|  |  |  |

**The student will be able to:*** [Explain each step in solving a simple equation.](http://www.cpalms.org/Public/PreviewResource/Preview/58779) ([A-REI.1.1](http://www.cpalms.org/Public/PreviewResource/Preview/60552))
* [Solve linear equations in one variable.](http://www.cpalms.org/Public/PreviewResource/Preview/56521) ([A-REI.2.3](http://www.cpalms.org/Public/PreviewResource/Preview/56522))
* [Solve linear inequalities in one variable.](http://www.cpalms.org/Public/PreviewResource/Preview/55561) ([A-REI.2.3](http://www.cpalms.org/Public/PreviewResource/Preview/58785))
* Solve quadratic equations by inspection (e.g., for x² = 49). (A-REI.2.4b)
* Solve quadratic equations by taking square roots. (A-REI.2.4b)
* [Understand that the graph of an equation](http://www.cpalms.org/Public/PreviewResource/Preview/66771) in two variables is [the set of all its solutions](http://www.cpalms.org/Public/PreviewResource/Preview/66777) plotted in the coordinate plane, often forming a curve (which could be a line). ([A-REI.4.10](http://www.cpalms.org/Public/PreviewResource/Preview/66775))
 |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. |
| **1.0** | With 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 some of the simpler details and processes and some of the more complex ideas and processes. |
| **0.0** | Even with help, no understanding or skill is demonstrated |