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| **LG #** | **MCR05** | **Standards:** | **A-REI.1.1, A-REI.1.2, 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.
* Simplify nested radicals.

**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 and graph 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 (A-REI.1.1)
* Solve simple rational equations in one variable, and identify extraneous solutions. (A-REI.1.2)
* Solve simple radical equations in one variable, and identify extraneous solutions. (A-REI.1.2)
* Apply the properties of exponents to justify whether two expressions are the same. (N-RN.1.2)
* Solve one variable equations with coefficients represented by letters (A-REI.2.3)
* Solve quadratic equations by factoring (A-REI.2.4b)
* Solve quadratic equations using quadratic formula (A-REI.2.4b)
* Solve quadratic equations using completing the square method (A-REI.2.4b)
* 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)
* Understand that the graph of an equation in two variables is the set of of all its solutions plotted in the coordinate plane (A-REI.4.10)

**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:**

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| * Variable
* Linear Equation
* Quadratic Equation
 | * Coefficient
* Completing the Square
* Quadratic Formula
 | * Complex Number
* Factor
* Linear Inequality
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| * Linear Inequality
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**The student will be able to:*** Explain each step in solving a simple equation (A-REI.1.1)
* Rewrite expressions involving radicals and rational exponents using the properties of exponents. (N-RN.1.2)
* Solve linear equations in one variable (A-REI.2.3)
* Solve linear inequalities in one variable (A-REI.2.3)
* 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 in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line). (A-REI.4.10)
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| **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 |