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| **LG #** | **MCR03** | **Standards:** | **8.EE.1.1, 8.EE.1.4** |
| **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:*** Connect properties of scientific notation to applications within scientific context (i.e. distances in solar system, size of atoms, etc.)

**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 work with radical and integer exponents and scientific notation.****The student will be able to:*** Know and apply the properties of integer exponents to generate equivalent expressions. (8.EE.1.1)
* Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used, by applying laws of exponents. (8.EE.1.4)
* Determine appropriate units of measurement for very large or vary small quantities. (8.EE.1.4)
* Interpret scientific notation that has been generated by technology. (8.EE.1.4)

**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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| * Scientific notation
* Standard form of scientific notation
* Commutative property
 | * Expanded form of scientific notation
* Base
* Associative property
 | * Powers of 10
* Exponent
* Significant
 |

**The student will be able to:*** Understand base ten number system and place value. (8.EE.1.4)
* Write equivalent numerical expressions involving exponents. (8.EE.1.1)
* Use reasoning to determine between which two consecutive whole numbers a square root lies. (8.NS.1.1)
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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 |