2022-2023 Eighth Grade Unit 6 Skeleton Plan
Quarter 2 (41 Days)


| b. Translate between decimal notation and scientific notation. <br> c. Estimate and compare the relative size of two quantities in scientific notation. |  |  |  |
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| Student Learning Targets (SLT): <br> LEARNING TARGETS 8.EEI. 4 <br> - I can multiply and divide numbers written as decimals and in scientific notations. <br> - I can recognize differences in technological representations of scientific notation. |  |  |  |
| Unit Notes: <br> Calculators should be used to show multiple representations of Scientific Notation $(E)$. |  |  |  |
| Prior Skills: <br> Operations with rational numbers <br> Integer Rules | Vocabulary: <br> $>$ Negative Exponent Property <br> $>$ Power of Powers Property <br> $>$ Product of Powers Property <br> $>$ Quotient of Powers Property <br> $>$ Scientific Notation <br> $>$ Square Root <br> > Zero Exponent Property | Lesson Progression: <br> 1. Use Properties of Exponents (Multiplying and Dividing Monomials, Lesson 1-6, Examples 1, 2, 4) - Day 1 <br> 2. Use Properties of Exponents (Power of a Power and Zero Exponent Property, Lesson 1-6, Example 3 and Lesson 1-7, Example 1) - Day 2 <br> 3. Review Properties of Integer Exponents (L83: Integer Exponents) <br> 4. More Properties of Integer Exponents (Virtual Nerd: What Do You Do with a Negative Exponent?, Negative | Extended Learning: <br> $>$ Adding, Subtracting, Multiplying Polynomials (A1.ASE.2) |


|  |  | Exponents, Lesson 1-7) - Day 1 <br> 5. Negative Exponents (Open Up Resources Grade 8, Unit 7, Lesson 5: Negative Exponents with Powers of Ten) - Day 2 <br> 6. Review Laws of Exponents and Mid-Unit Review <br> 7. Use Powers of 10 to Estimate Quantities (Lesson 1-8) <br> 8. Understand Scientific Notation (Lesson 1-9) <br> 9. 3-Act Mathematical Modeling (Topic 1, Page 65A) <br> 10. Operations with Numbers in Scientific Notation (Lesson 1-10) - Day 1 <br> 11. Operations with Numbers in Scientific Notation - Day 2 <br> 12. Review: Performance Task (Topic 1, Page 81C/D - Forms A and/or B) <br> 13. Review (Topic 1: Concepts and Skills Review) <br> 14. Unit Test |  |
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| Assessment: Accessible through Mastery Manager |  |  |  |
| MLL Supports: |  |  |  |
| Team Instructional Notes: |  |  |  |

Reflections: Exponents are numbers only, no variables

