

Block	Original Lessons	Plan to Do	If Time Allows	Notes
1	<p>Check Your Readiness</p> <p>Lesson 1 Exponent Review</p>	<p>CYR</p> <p>1.1</p> <p>1.2*</p> <p>1.3</p> <p>Lesson 1 Synthesis</p> <p>1.4</p>		<p>The Check Your Readiness assessment could be given before or after Lesson 1 because none of the items are addressed in the lesson.</p> <p>This lesson reviews previous work with whole number exponents.</p>
2	<p>Lesson 2 Multiplying Powers of Ten</p> <p>Lesson 3 Powers of Powers of 10</p>	<p>2.1</p> <p>2.3*</p> <p>Lesson 2 Synthesis</p> <p>3.1</p> <p>3.2*</p> <p>3.3</p> <p>Lesson 3 Synthesis</p> <p>2.4</p>	2.2	<p>In these lessons, students explore exponent rules for multiplying values with the same base.</p>
3	<p>Lesson 4 Dividing Powers of 10</p> <p>Lesson 5 Negative Exponents with Powers of 10</p>	<p>4.1</p> <p>4.2*</p> <p>4.3</p> <p>Lesson 4 Synthesis</p> <p>5.1</p> <p>5.2*</p> <p>5.3</p> <p>Lesson 5 Synthesis</p> <p>5.4</p>	4.4 (optional)	<p>This block explores exponent rules when dividing values with the same base.</p> <p>The optional activity gives students the opportunity to be creative with the exponent rules.</p>

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4	<p>Lesson 6 What about Other Bases?</p> <p>Lesson 7 Practice with Rational Bases</p>	<p>6.1 6.2 6.3 Lesson 6 Synthesis 7.2* 7.3 Lesson 7 Synthesis 7.4</p>	7.1	Up to this point, students have only used base 10 for exploring the exponent rules. These lessons allow students to practice the rules using other values as the base.
5	<p>Lesson 8 Combining Bases</p> <p>Lesson 9 Describing Large and Small Numbers Using Powers of 10</p>	<p>8.1 8.2* Lesson 8 Synthesis 9.1 9.2 9.3* Lesson 9 Synthesis 9.4</p>	8.3 (optional)	<p>To help transition between the lessons, during the Lesson 8 synthesis, tell students to use technology to calculate the value of the last entry on the table from Activity 8.2 (<math>7^4 * 2^4 * 5^4 = 24,010,000</math>). Then, select a student to read the number in words. Tell students that the next set of activities will lead us to another way to write very large (and very small) numbers.</p> <p>The optional activity is a game to practice using the rules of exponents students have learned.</p>
6	<p>Lesson 10 Representing Large Numbers on the Number Line</p> <p>Lesson 11 Representing Small Numbers on the Number Line</p>	<p>10.1 10.2 10.3* Lesson 10 11.1 11.2* 11.3 Lesson 11 Synthesis 10.4</p>		These lessons explore putting very large or very small numbers on a number line being careful how the power of 10 affects the marks on the number line.

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7	<p>Lesson 12 Applications of Arithmetic with Powers of 10</p> <p>Lesson 13 Definition of Scientific Notation</p>	<p>12.1 12.2 Lesson 12 Synthesis 13.1 13.2* 13.3 Lesson 13 Synthesis 13.4</p>	12.3 (optional)	<p>In this block, students work towards writing numbers in scientific notation.</p> <p>The optional activity is another opportunity to play with numbers in scientific notation similar to Activity 12.2.</p>
8	<p>Lesson 14 Multiplying, Dividing, and Estimating with Scientific Notation</p> <p>Lesson 15 Adding and Subtracting with Scientific Notation</p>	<p>14.1 14.2* 14.3 15.1 15.2* 15.3 Lesson 15 Synthesis 14.4</p>	<p>14.4 (optional) 15.4 (optional)</p>	<p>These lessons examine ways to combine numbers written in scientific notation.</p> <p>The optional activities provide additional practice with real-world situations in which students combine values written in scientific notation.</p> <p>The cool-down from Lesson 14 is listed in the suggested sequence because, outside of the classroom, numbers in scientific notation are more often used to compare orders of magnitude than summed.</p>
9	<p>Lesson 16 Is a Smartphone Smart Enough to Go to the Moon?</p> <p>End-of-Unit Assessment</p>	<p>16.1 16.2 EUA</p>		<p>Lesson 16 could be used as a review of the material from the unit before the assessment if students could benefit from the review. Otherwise, it can be given as a project to play with the concepts after the assessment.</p>

Unused cool-downs: 3.4, 4.4, 6.4, 8.4, 11.4, 12.4, 15.4