



Name: J. Cavett		Date: November 27-December 1, 2017			
Subject: 6th Grade Mathematics		Exponents			
Standard (s): MGSE.6.EE.1 Write and evaluate expressions involving whole number exponents.		Essential Questions: How are “standard form” and “exponent form” related? What is the purpose of an exponent? How are exponents used when evaluating expressions?			
Learning Target/Objectives: Exponential notation is a way to express repeated products of a number.					
Behavior Learning Target(s): Scholars will turn in completed work on time. Scholars will show commitment to their perspective group and actively engage in all class discussions/activities. Scholars will listen respectfully and acknowledge the contribution of others. Scholars will share ideas honestly and clearly.					
Academic Vocabulary: Exponents, Base, Power					
	Monday 11/27	Tuesday 11/28	Wednesday 11/29	Thursday 11/30	Friday 12/1
Opening Introduction “I Do” <u>Engage</u>	6 MIN: Scholars will be given instructions for the 3-Act Task.	6 MIN: Scholars will be given the directions for the Red and Green Dice Exponent Activity.	6 MIN: Scholars will discuss exponents and all that was learned for the week	6 MIN: Scholars will be introduced to Orders of Operations.	N/A
Guided Practice “We Do”	3-ACT TASK Teacher will instruct scholars to watch a video for Act 1 to introduce	RED AND GREEN DICE EXPONENT ACTIVITY Teacher will provide an example by rolling a red	SQUARES & CUBES Scholars will be taught that exponents who have a 2nd power is to	ORDERS OF OPERATIONS Teacher will elaborate on orders of operations	TEST & QUIZ Teacher will instruct scholars that everyone will pull 10 multiplication

<p><u>Explain</u></p>	<p>them to the problem. Within Act 2, teacher will provide scholars with a picture to analyze for more information. In Act 3, teachers will allow scholars to share their results and reveal the result of the main question.</p>	<p>die for the base, green die for the exponent, writing both numbers in exponential form, standard form, and its value.</p>	<p>be that number squared. Also, exponents who have a 3rd power is to be that number cubed.</p>	<p>and its misconceptions. Teacher will complete practice problems with scholars to assure understanding.</p>	<p>tables out of a bowl and given 10 minutes to write the answer to all ten multiplication tables on a sheet of paper.</p>
<p>Independent Practice</p> <p>“You do”</p> <p><u>Application</u></p> <p>Differentiated Instruction should be indicated in lesson plans</p>	<p>3-ACT TASK</p> <p>Scholars will be introduced to the problem in the video. Within Act 2, scholars will think about other information in order to answer the main question. In Act 3, scholars will share their results and will be revealed the result of the main question</p>	<p>RED AND GREEN DICE EXPONENT ACTIVITY</p> <p>Scholars will be provided a red and green die for the base and exponent numbers and complete the activity within a group.</p>	<p>SQUARES & CUBES TO REMEMBER</p> <p>Scholars will complete squares one through twelve and cubes one through five. Scholars will then quiz each other on each square to memorize them.</p>	<p>ORDERS OF OPERATIONS</p> <p>Scholars will use the notes given in class to complete the worksheet in their perspective groups.</p>	<p>Scholars will complete a multiplication test and exponent quiz.</p>
<p>Closing/Exit Ticket Formative or Summative Assessment</p> <p><u>Evaluate</u></p>	<p>EXPONENTS</p> <p>Scholars will discover how the result of the 3-Act Task correlates with exponents.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>Scholars will complete a multiplication test and exponent quiz.</p>

Homework	N/A	Exponents With Whole Number Bases Scholars will complete twelve problems to practice exponents.	N/A	Orders of Operations Scholars will complete problems to practice Order of Operations.	N/A
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