

Unit 2 Plan by Prioritized Standards

Content Area	MATH	
Grade/Course	6	
Unit of Study	EXPRESSIONS	
Duration of Unit	16 DAYS	
Insert priority standards below (include code). CIRCLE or Highlight the SKILLS that students need to be able to do and UNDERLINE the CONCEPTS that students need to know. (address "supporting" standards in daily lesson plans)		
<p>MGSE6.EE.1 Write and evaluate expressions involving whole-number exponents.</p> <p>MGSE6.EE.2c Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (<u>Order of Operations</u>). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = 2$.</p> <p>MGSE6.EE.3 Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.</p>		
Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
<ul style="list-style-type: none"> *write and evaluate expressions including exponents *evaluate expressions with given values *solve order of operations including exponents *generate equivalent expression <p>WRITE, EVALUATE</p> <p>EVALUATE</p> <p>GENERATE</p>	<ul style="list-style-type: none"> *variable expressions *exponential notation *algebraic properties <p>EXPONENTS</p> <p>EXPRESSIONS, ORDER OF OPERATIONS</p> <p>EQUIVALENT EXPRESSIONS</p>	<p>2/APPLY</p> <p>2/APPLY</p> <p>3/ANALYZE</p>
Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)		Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)
<ul style="list-style-type: none"> *Variables can be used as unique unknown values or as quantities that vary. *Exponential notation is a way to express repeated products of the same number. *Algebraic expressions may be used to represent and generalize mathematical problems and real life situations. *Properties of numbers can be used to simplify and evaluate expressions. *Algebraic properties can be used to create equivalent expressions. 		<ul style="list-style-type: none"> *What is the purpose of an exponent? *How is the order of operations used to evaluate expressions? *How are exponents useful in solving mathematical and real world problems? *How are the properties (Identify, Associative and Commutative) used to evaluate, simplify and expand expressions? *How can I tell if two expressions are equivalent?
Essential Unit Vocabulary		
Associative Property of Addition•Associative Property of Multiplication•Coefficient•Commutative Property of Addition•Commutative Property of Multiplication•Constant•Distributive Property•Exponent•Like Terms•Order of Operations•Term•Variable		
Next step, create assessments and engaging learning experiences		