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| **Equations and Expressions (EE)** | | | | |
| **Standard** | **I can…** | **Video** | **Activity** | **Vocab** |
| CC.6.EE.1 Write and evaluate numerical expressions involving whole-number exponents. | I can write a number in standard, exponential, and as a product of its factors (42 = 4 x 4 = 16). (K)  I can write a numerical expression involving whole-number exponents. (R)  I can solve a numerical expression involving whole-number exponents. (R) | <http://www.youtube.com/watch?v=BOl_1xLw7a8> \*\*  <http://mathvids.com/lesson/mathhelp/1223-exponents>  <http://www.mathatube.com/exponents-html.html> \*\* (watch both videos the one at the top **and** bottom of the screen) | IXL E. 1,2,4,5  5th Grade- Q.13, 14  Textbook page 270-273  Learn Zillion Quick Code LZ461 \*\* | Exponential  Numerical expression  Exponents  Standard form  Factors |
| CC.6.EE.2 Write, read, and evaluate expressions in which letters stand for numbers. |  |  |  |  |
| CC.6.EE.2a Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation “Subtract y from 5” as 5 – y. | I can use a variable to represent an unknown number. (K)  I can write an expression from a word phrase using operations and variables. (R) | <http://www.youtube.com/watch?feature=player_embedded&v=a9YhNvlZg3A>  <http://www.youtube.com/watch?feature=player_embedded&v=8G1nAou4g4w>  Learn Zillion EE.2a | Textbook 274-288  Tenmarks | Variable  Unknown number  Expressions  Signal words  Algebraic expression  Mathematical operation  Word Phrase |
| CC.6.EE.2b Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression 2(8 + 7) as a product of two factors; view (8 + 7) as both a single entity and a sum of two terms. | I can identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient). (K)  I can describe one or more parts of an expression as   * Sum * Term * Product * Factor * Quotient * Coefficient. (R) |  | IXL P.14 | Sum  Term  Product  Factor  Quotient  Coefficient  Expression  Single entity |
| CC.6.EE.2c Evaluate expressions at specific values for their variables. Include expressions that arise from formulas 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 (Order of Operations). For example, use the formulas V = s^3 and A = 6 s^2 to find the volume and surface area of a cube with sides of length s = 1/2. | I can apply the order of operations to solve problems using addition, subtraction, multiplication, and division. (R)  I can apply the order of operations to solve problems using grouping symbols. (R)  I can apply the order of operations to solve problems using whole number exponents. (R) | <http://www.youtube.com/watch?feature=player_embedded&v=nrJWmn-kiUw> |  | Variable  Substitution  Formula  Order of operations  Exponents  PE(MD)(AS)  Evaluate  Expression  Grouping Symbols |
| CC.6.EE.3 Apply the properties of operations to generate equivalent expressions. | I can identify properties of operations (commutative, associative, inverse, identity, reflexive, and distributive). (R)  I can apply the distributive property to generate equivalent expressions. (R) |  |  | Commutative property  Associative property  Inverse property  Identity property  Reflexive property  Distributive property  Equivalent  Expression  Properties |
| CC.6.EE.4 Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions y + y + y and 3y are equivalent because they name the same number regardless of which number y stands for. | I can prove two expressions are equivalent regardless of the value of the variable (substitution, simplifying, or using properties). (R) | Learn Zillion EE. 4 |  | Equivalent  Variable  Simplifying  Expression  Substitution  Properties |