Vocabulary: Multiplying Exponential Expressions

🔟 Vocabulary

Gizmos

- <u>Base</u> a number or expression raised to an exponent.
 - \circ For example, in the expression 5³, 5 is the base.
- <u>Exponent</u> a number, written to the right of and just above a number or expression, that
 indicates how many times the number or expression is multiplied by itself.
 - \circ For example, in the expression 5³, 3 is the exponent.
 - The expression 5^3 equals $5 \cdot 5 \cdot 5$, or 125.
 - *Power* is another name for exponent.
 - For example, 6⁵ is read "6 to the fifth power."
 - The exponents 2 and 3 have special names 2 is "squared" and 3 is "cubed."
 - For example, 4² is read "four squared."
 - For example, 4³ is read "four cubed."
 - A negative exponent means to divide by that many factors.
 - For example, 5^{-3} means $\frac{1}{5^3} = \frac{1}{125}$.
 - A number raised the zero power equals 1.
 - For example, $5^0 = 1$.
- <u>Expression</u> a combination of one or more numbers, one or more variables, and one or more arithmetic operations.
 - For example, x 2, 8m, $r \div 6$, 7, 3x + 4, $9x^3y^2$ and $(2 + (\frac{5}{11})^2 0.3)$ are all expressions.

