**Classwork:** Two-minute meditation: Ryan’s choice.

Log into MathSpace at <https://mathspace.co/student/>and start with #1:

1. Exponent Notation 1
2. Exponents Zero Power
3. Exponents Power Rule
4. Exponents Product Rule

**Exponent Terms and Rules**



**Exponential expression or Exponential form** uses the exponent: 43.

**Expanded form** or **Distributed notation** turns the exponent into a multiplication problem: 4 • 4 • 4.

**Consider** or **Evaluate** mean to solve.

**Zero-Exponent Rule:** a0 = 1, this says that anything raised to the zero power is 1.

**Product Rule**: am ∙ an = am + n, this says that to multiply two exponents with the same base, you keep the base and add the powers.

**Quotient Rule**: , this says that to divide two exponents with the same base, you keep the base and subtract the powers.

**Power Rule** (Powers to Powers): (am)n = amn, this says that to raise a power to a power you need to multiply the exponents.

**Negative Exponent Rule**: , this says that negative exponents in the numerator get moved to the denominator and become positive exponents.