Scientific Notation

Big Ideas:

Scientific notation is a way to express very small or very large numbers

Scientific Notation is Expressed as two factors:

- 1. a number between 1 and 10 (known as the MANTISSA)
- 2. A power of 10
- *Negative exponents represent small numbers
- *Positive exponents represent large numbers

Standard Form $0.0000057 = 5.7 \times 10^{-6}$ Mantissa Power of 10

Examples:

Write in scientific notation:

b. 40,600,000,000

Write in standard form:

b. 5.032×10^{12}