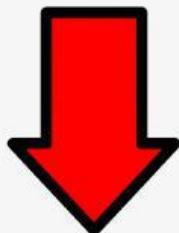


Scientific Notation always involves having a number that is between 1 and 10 multiplied by a Power of 10.

<p> “Handy” Helpful Tip 1 </p> <p>Keep in mind at all times the following:</p> <p>Normal Numbers bigger than 1, or large numbers, always have a POSITIVE Power of 10.</p> <p>$6.2 \times 10^1 = 62$ $1.496 \times 10^8 = 149\,600\,000$</p> <p>Values smaller than 1, usually decimal values, always have a NEGATIVE Power of 10.</p> <p>$2.31 \times 10^{-3} = 0.00231$ $6.234 \times 10^{-1} = 0.6234$</p>	<p> “Handy” Helpful Tip 2 </p> <p>The Power of 10 value gives us key information about how many places to move the Decimal Point to make Number values.</p> <p>$2.31 \times 10^{-3} = 0.00231$ Move the Decimal Point three to the Left.</p> <p>$1.496 \times 10^8 = 149\,600\,000$ Move the Decimal Point eight to the Right</p>
<p>Positive exponents = numbers > 1</p>	<p>Negative exponents = numbers < 1</p>
<p>9.61×10^0</p> <p>5.93566516×10^3</p> <p>7.57×10^5</p> <p>7.95651987×10^5</p> <p>9.66460984×10^6</p>	<p>9.08014×10^{-2}</p> <p>5.72×10^{-4}</p> <p>$2.89648579 \times 10^{-8}$</p> <p>$2.15 \times 10^{-3}$</p> <p>$7.81 \times 10^{-5}$</p>

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Note: For a number to be properly written in scientific notation, there must be only one digit in front of the decimal point. 1.1×10^6 is good, 11×10^6 is incorrect

Numbers into Scientific Notation	Numbers into Scientific Notation
1000 $= 1\underset{3 \text{ places}}{000}$ $= 1.000$ $= 1 \times 10^3 \text{ or } 10^3$	0.0050 $= 0\underset{3 \text{ places}}{.0050}$ $= 0.0050$ $= 5.0 \times 10^{-3}$
Normal Numbers bigger than 1, or large numbers, always have a POSITIVE Power of 10.	Values smaller than 1, usually decimal values, always have a NEGATIVE Power of 10.
2000	0.000757
99	0.536
43.9	0.57200
795651.987	0.00106
823762188	0.000000459