

(16)

Activity: The Metric System is Mega Cool!!

Part 1: Scientific Notation

1. Change the following numbers in decimal notation to scientific notation
a. 0.00004 b. 0.0025 c. 310000
2. Change the following numbers in scientific notation to decimal notation
a. 5.93×10^{-5} b. 3×10^4 c. 1.5×10^3
3. Make the following calculations using your calculator.
a. $1.3 \times 10^3 + 2.5 \times 10^2$ b. $2.6 \times 10^4 - 1.7 \times 10^3$
c. $(1.5 \times 10^2)(2.3 \times 10^{-5})$ d. $4.4 \times 10^5 / 2.0 \times 10^{-2}$

Part 2: Metric Conversions

Show your work! You must use the bridge method even if you can do these in your head. Soon, we will be doing much more difficult conversions so if you can get used to the Bridge Method now, it will be easy for you later with the more difficult conversions.

1. 25 kg to grams
2. 567 μs to ds
3. 0.057 m to km
4. 0.986 hours to seconds
5. 3.004 L to mL
6. 86 kg to g
7. 13 cm^3 to mL
8. 56,000 μg to kg
9. 56 km to mm
10. 80 GB (gigabytes) to TB (terabytes)
11. 20 km to feet (use your conversion factor sheet)

No Making Size Notes!