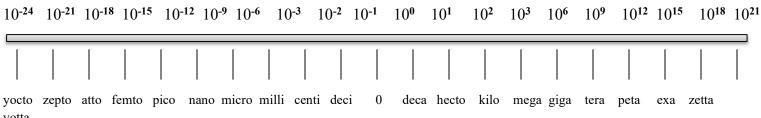
## **CONCEPT: METRIC PREFIXES**

Generally, we use scientific notation to turn small or large, inconvenient numbers into manageable ones, but in analytical chemistry it will become more useful to use metric prefixes.

• Metric Prefixes serve as labels for common base units.



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**EXAMPLE:** It is safe to assume that all dilute aqueous solutions have a density near  $1.00 \, \frac{g}{mL}$ . If a solution is 2.50 parts per thousand, express the concentration in the following units.

 $\frac{pg}{dL}$ 

**PRACTICE**: Based on the above example convert 5.71 ppb into the units presented below.

 $\frac{\text{kg}}{\text{u}}$