

VOCAB

percent	base unit	conversion factor	volume	density	percent error
significant figures (digits)		magnitude	unit	accuracy	accuracy
error	precision	derived units	scientific notation		mass, volume, length

RECALL and APPLY

Measurement

- How to use measurement **devices** (ruler, graduated cylinder, thermometer, balance) to determine the mass, volume, temperature, length, or density of an object.
- How to determine the appropriate number of **significant digits** in a measurement or calculation
- What are the appropriate units for a given measurement
- Be able to express a measurement or calculation in **scientific notation** with appropriate sig figs
- Calculate percent error of an experimental result

Unit Conversions and Dimensional Analysis

- Convert between two measurements using dimensional analysis
- Calculate a derived measurement (like density) using two fundamental measurements (like mass and volume)
- Analyze a conversion problem or example for possible errors in procedure

Density

- Be able to calculate the density of an object given measurements
- Be able to compare densities of two objects or substances by how they interact (golf ball demo)