

Measurement

STUDY GUIDE: Appendix A in *Conceptual Physical Science*, 4th edition

Objectives: When you finish this unit you should be able to:

- Determine the number of significant figures in a measurement
- Take measurements and record them with the appropriate significant figures
- Add, subtract, multiply and divide measurements to the proper number of significant figures
- Write decimal numbers in scientific notation and vice versa
- Use a calculator to add, subtract, multiply and divide numbers in scientific notation
- List the 7 fundamental units in the SI system
- Give the definition of the SI prefixes on the "toothbrush number" sheet and write conversion factors for prefixed SI units
- Convert between prefixed units using the "factor label" method
- Apply the "factor label" method to English unit conversions and SI/English conversions.
- Understand and manipulate the ideas of length, area, volume, mass, and density
- Have memorized all information on the "toothbrush number" sheet

Activities:

- Work through practice problems provided in class using the "toothbrush number" sheet.
- The "Candybar" lab.