

**INTRODUCTORY CHEMISTRY
UNIT 2: MEASURING MATTER**

OUTLINE OF CLASS NOTES

MEASUREMENT TIMELINE

WHEN DID WE START USING MEASUREMENT?

THE EVOLUTION OF UNITS

METRIC SYSTEM (SI - INTERNATIONAL SYSTEM)

SI BASE UNITS

SI PREFIXES

EXPONENTIAL (SCIENTIFIC) NOTATION

DIFFERENT MEASUREMENTS

1. WEIGHT AND MASS

2. LENGTH

3. TEMPERATURE

DERIVED UNITS

1. VOLUME

2. DENSITY

UNIT CONVERSION PROBLEMS

PRECISION VS. ACCURACY

SIGNIFICANT FIGURES

HISTORY OF SIGNIFICANT FIGURES

USING SIGNIFICANT FIGURES FOR PRECISION

RULES FOR SIGNIFICANT FIGURES

1. ADDITION AND SUBTRACTION

2. MULTIPLICATION AND DIVISION