

CHM 100 UNIT 1 MATTER AND ENERGY OUTLINE OF CLASS NOTES

SUGGESTED READING: CRACOLICE/PETERS - CHAPTER 2

WORK ON PRACTICE PROBLEMS

OBJECTIVES FOR UNIT 1

INTRODUCTION

CHEMISTRY

MATTER

1. MACROSCOPIC MATTER
2. MICROSCOPIC MATTER
- 3.

POSSIBLE CAREERS IN CHEMISTRY

A LITTLE HISTORY

CHEMISTRY TIMELINE

ARISTOTLE

THE PHILOSOPHER'S STONE

CHEMISTRY ORGANIZED

STATES OF MATTER

DESCRIBING MATERIAL

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL CHANGES

PHYSICAL CHANGES

CHEMICAL CHANGES

PHLOGISTON

CLASSIFYING MATERIAL (MATTER)

I HETEROGENEOUS MATERIALS

PHASE, INTERFACES, MIXTURES

II HOMOGENEOUS MATERIALS

A) SOLUTIONS

B) PURE SUBSTANCES

i) ELEMENTS

THE DISCOVERY OF PHOSPHORUS

A CHEMICAL SYMBOL

ii) COMPOUNDS

CHEMICAL FORMULAS

DIATOMIC MOLECULES

CHEMICAL EQUATIONS

ENERGY IN CHEMICAL CHANGE

ENDOTHERMIC VS. EXOTHERMIC

POTENTIAL VS. KINETIC