

WORK ON PRACTICE PROBLEMS

OBJECTIVES FOR UNIT 4

- ✓ To be able to name or give the formula of binary molecular compounds.
- ✓ To be able to name or give the formula of ionic compounds.
- ✓ To be able to recognize the formula for a hydrate.
- ✓ To be able to recognize and name Arrhenius acids and bases.

INTRODUCTION TO NOMENCLATURE

CHEMICAL BOND

COVALENT BOND (FORM MOLECULES): SHARING OF ELECTRONS

IONIC BOND (FORM PARTICLES): TRANSFER OF ONE OR MORE ELECTRONS

CHEMICAL FORMULAS FOR MOLECULES & PARTICLES

NOMENCLATURE

NOMENCLATURE

COMMON NAME

SYSTEMATIC NAME.

NAMING PARTICLES (IONIC COMPOUNDS)

CATIONS, ANIONS

MONOATOMIC IONS.

POLYATOMIC IONS

OXIDATION NUMBERS

HYDRATES

NAMING MOLECULES (COVALENT COMPOUNDS)

TYPE 1: NONACID MOLECULES COMPOSED OF TWO NONMETAL ELEMENTS

PREFIXES

ARRHENIUS ACIDS AND BASES

TYPE 2: OXOACID MOLECULES

TYPE 3: NONOXOACID MOLECULES