

**BRONX COMMUNITY COLLEGE LIBRARY  
SUGGESTED FOR  
CHM 11  
GENERAL COLLEGE CHEMISTRY I**

**CODE NO.**

**TITLE**

**BASIC DEFINITION, MEASUREMENT**

- (ELECTRONIC RESERVE)* **FY72 CLASSIFICATION OF MATTER** – *c1972*  
**V1218.5** **A MATTER OF STATE** (*The World of Chemistry*) – *30 min, c1990*  
**V3207.1** **INTRODUCTION TO MATTER, THE ELEMENTS, AND UNITS OF MEASURE** (*Chemistry: Standard Deviants*) – *25 min, c2000*  
**V768** **CHEMISTRY: ELEMENTS, COMPOUNDS, AND MIXTURES** – *20 min, c1983*  
*(ELECTRONIC RESERVE)* **ELEMENTS, COMPOUNDS, AND MIXTURES** – *c1972*  
**V1218.3** **MEASUREMENT: THE FOUNDATION OF CHEMISTRY** (*The World of Chemistry*) – *30 min, c1990*  
**DVD718** **THE PERIODIC TABLE, FORMULAS & EQUATIONS** – *21 min, c1992*

**ATOMS, MOLECULES AND IONS**

- V1218.6** **THE ATOM** (*The World of Chemistry*) – *30 min, c1990*  
**V3207.6** **ATOMIC STRUCTURE** (*Chemistry: Standard Deviants*) – *27 min, c2000*  
**DVD305** **BOHR'S MODEL OF THE ATOM** – *26min, c2006*  
**V1694.1** **INTRODUCING THE PLAYERS** (*Electron Arrangement and Bonding*) – *10 min, c1992*  
**V1692.1** **RELATIVE MASS** (*The Mole Concept*) – *10 min, c1992*  
**V3207.3** **MOLES, PERCENT COMPOSITION, AND THE EMPIRICAL FORMULA** (*Chemistry: Standard Deviants*) – *31 min, c2000*

**ATOMS, MOLECULES AND IONS**

- V1218.11** **THE MOLE** (*The World of Chemistry*) – *30 min, c1990*  
**V1692.6** **THE MOLE** (*The Mole Concept*) – *10 min, c1992*  
*(ELECTRONIC RESERVE)* **MOLECULAR WEIGHTS AND MOLES** – *c1973*

**CHEMICAL FORMULAS AND EQUATIONS**

- (ELECTRONIC RESERVE)* **WRITING CHEMICAL FORMULAS** – *c1973*  
*(ELECTRONIC RESERVE)* **CHEMICAL FORMULAS AND NAMES** (*Powell*) – *c1977*  
*(ELECTRONIC RESERVE)* **NAMING THE COMPOUNDS** – *c1973*  
*(ELECTRONIC RESERVE)* **CALCULATION OF PERCENT COMPOSITION, PART 1** – *c1973*  
*(ELECTRONIC RESERVE)* **CALCULATION OF PERCENT COMPOSITION, PART 2** – *c1973*  
**V3207.3** **MOLES, PERCENT COMPOSITION, AND THE EMPIRICAL FORMULA** (*Chemistry: Standard Deviants*) – *31 min, c2000*

- V3207.2                   **CHEMICAL EQUATIONS AND ATOMIC AND MOLECULAR  
MASS** (*Chemistry: Standard Deviants*) – 20 min, c2000  
*(ELECTRONIC RESERVE)*   **DETERMINATION OF THE SIMPLEST FORMULA** – c1973  
*(ELECTRONIC RESERVE)*   **INTRODUCTION TO BALANCING EQUATIONS** – c1973  
*(ELECTRONIC RESERVE)*   **EQUATIONS AND TYPES OF REACTIONS** – c1973  
*(ELECTRONIC RESERVE)*   **BALANCING CHEMICAL EQUATIONS** (*Powell*) – c1977  
*(ELECTRONIC RESERVE)*   **CALCULATIONS BASED ON THE CHEMICAL EQUATION,  
MOLE RATIO METHOD** – c1973  
*(ELECTRONIC RESERVE)*   **MASS AND VOLUME RELATIONSHIPS** (*Powell*) – c1977

**CHEMICAL REACTIONS, MASS RELATIONSHIPS**

- V1789                   **ACID-BASE INDICATORS** – 19 min, c1989

**THE GASEOUS STATES**

- V1692.2               **GAS VOLUMES** (*The Mole Concept*) – 10 min, c1992  
V1692.3               **COMBINING GAS VOLUMES** (*The Mole Concept*) – 10 min, c1992  
V1218.4               **MODELING THE UNSEEN (BEHAVIOR OF GASES)** (*The World of  
Chemistry*) – 30 min, c1990  
V1218.5               **A MATTER OF STATE** (*The World of Chemistry*) – 30 min, c1990  
V3207.9               **GASES AND STATES OF MATTER** (*Chemistry: Standard Deviants*)  
–33 min, c2000

**THE GASEOUS STATES**

- V3207.4               **SOLUTION STOICHIOMETRY** (*Chemistry: Standard Deviants*) – 33 min, c2000

**QUANTUM THEORY AND ELECTRONIC STRUCTURE**

- V1694.3               **ELECTRON ARRANGEMENT** (*Electron Arrangement and Bonding*)  
– 10 min, c1992  
V3207.8               **MOLECULAR GEOMETRY AND BONDING THEORIES**  
(*Chemistry: Standard Deviants*) – 18 min, c2000

**PERIODIC RELATIONSHIPS**

- DVD718               **THE PERIODIC TABLE, FORMULAS & EQUATIONS** – 21 min, c1992  
V861                   **CHEMISTRY: PERIODIC & PERIODICITY TABLE** – 24 min, c1983  
V1218.7               **THE PERIODIC TABLE** (*The World of Chemistry*) – 30 min, c1990  
V1218.3               **MEASUREMENT: THE FOUNDATION OF CHEMISTRY**  
(*The World of Chemistry*) – 30 min, c1990

**CHEMICAL BONDING**

- V1218.8               **CHEMICAL BONDS** (*The World of Chemistry*) – 30 min, c1990  
V3207.7               **CHEMICAL BONDING** (*Chemistry: Standard Deviants*) – 18 min, c2000  
V1694.4               **HOW ATOMS BOND** (*Electron Arrangement and Bonding*) – 10 min, c1992

**PROPERTIES OF SOLUTIONS**

- V769                   **CHEMISTRY SOLUTIONS (Ionic and Molecular)** – 23 min, c1983  
V1694.5               **METALS AND IONIC SOLIDS** (*Electron Arrangement and Bonding*)  
– 10 min, c1992  
V3207.10              **PROPERTIES OF SOLUTIONS** (*Chemistry: Standard Deviants*) – 28 min, c2000

	<b>CHEMISTRY: THE STANDARD DEVIANTS (<i>SERIES</i>) – c2000</b>
<b>V3207.1</b>	<b>INTRODUCTION TO MATTER, THE ELEMENTS, AND UNITS OF MEASURE – 26 min</b>
<b>V3207.2</b>	<b>CHEMICAL EQUATIONS AND ATOMIC AND MOLECULAR MASS – 20 min</b>
<b>V3207.3</b>	<b>MOLES, PERCENT COMPOSITION, AND THE EMPIRICAL FORMULA – 31 min</b>
<b>V3207.4</b>	<b>SOLUTION STOICHIOMETRY – 33 min</b>
<b>V3207.5</b>	<b>THERMOCHEMISTRY – 17 min</b>
<b>V3207.6</b>	<b>ATOMIC STRUCTURE – 27 min</b>
<b>V3207.7</b>	<b>CHEMICAL BONDING – 18 min</b>
<b>V3207.8</b>	<b>MOLECULAR GEOMETRY AND BONDING THEORIES – 18 min</b>
<b>V3207.9</b>	<b>GASES AND STATES OF MATTER – 33 min</b>
<b>V3207.10</b>	<b>PROPERTIES OF SOLUTIONS – 28 min</b>

**TABLE OF CONTENTS FOR CHEM 11**

- 1) Chemistry: The Study of Change
- 2) Atoms, Molecules, and Ions
- 3) Mass Relationships in Chemical Reactions
- 4) Reactions in Aqueous Solutions
- 5) Gases
- 6) Thermochemistry
- 7) Quantum Theory and the Electronic Structure of Atoms
- 8) Periodic Relationships Among the Elements
- 9) Chemical Bonding I: Basic Concepts
- 10) Chemical Bonding II: Molecular Geometry and Hybridization of Atomic Orbitals
- 11) Intermolecular Forces and Liquids and Solids
- 12) Physical Properties of Solutions
- 13) Chemical Kinetics
- 14) Chemical Equilibrium
- 15) Acids and Bases
- 16) Acid-Base Equilibria and Solubility Equilibria
- 17) Chemistry in the Atmosphere
- 18) Entropy, Free Energy, and Equilibrium
- 19) Electrochemistry
- 20) Metallurgy and the Chemistry of Metals
- 21) Nonmetallic Elements and Their Compounds
- 22) Transition Metal Chemistry and Coordination Compounds
- 23) Nuclear Chemistry
- 24) Organic Chemistry
- 25) Synthetic and Natural Organic Polymers Appendixes 1 Derivation of the Names of Elements 2 Units for the Gas Constant 3 Thermodynamic Data at 1 atm and 25 degrees C 4 Mathematical Operations