

**BRONX COMMUNITY COLLEGE LIBRARY  
SUGGESTED FOR  
CHM 02  
INTRODUCTION TO CHEMISTRY**

**\* STUDENTS ARE REQUIRED TO VIEW THESE PROGRAMS\***

<u>CODE NO.</u>	<u>TITLE</u>
<b><u>UNIT 1</u></b>	
* <i>(ELECTRONIC RESERVE)</i>	<b>CLASSIFICATION OF MATTER</b> – c1972
*V768	<b>ELEMENTS, COMPOUNDS, AND MIXTURES</b> – 20 min, c1983
V1218.3	<b>MEASUREMENT: THE FOUNDATION OF CHEMISTRY</b> ( <i>The World of Chemistry</i> ) – 30 min, c1990
V3207.1	<b>INTRODUCTION TO MATTER, THE ELEMENTS, AND UNITS OF MEASURE</b> ( <i>Chemistry: Standard Deviants</i> ) – 26 min, c2000
DVD719	<b>INTRODUCTION TO SCIENCE</b> – 23 min, c1992
DVD722	<b>CHEMISTRY</b> – 32 min, c1994
<b><u>UNIT 2</u></b>	
* <i>(ELECTRONIC RESERVE)</i>	<b>ELEMENTS, COMPOUNDS, AND MIXTURES</b> – c1972
* <i>(ELECTRONIC RESERVE)</i>	<b>INTRODUCTION TO BALANCING EQUATIONS</b> – c1973
* <i>(ELECTRONIC RESERVE)</i>	<b>CHEMICAL SYMBOLS</b> ( <i>Powell</i> ) – c1965
<b><u>UNIT 3</u></b>	
* <i>(ELECTRONIC RESERVE)</i>	<b>THE METRIC SYSTEM</b>
* <i>(ELECTRONIC RESERVE)</i>	<b>EXPONENTIAL FORM</b>
* <i>(ELECTRONIC RESERVE)</i>	<b>UNIT CONVERSIONS &amp; LENGTH</b> – c1973
* <i>(ELECTRONIC RESERVE)</i>	<b>MASS AND VOLUME CONVERSIONS</b> – c1975
* <i>(ELECTRONIC RESERVE)</i>	<b>DENSITY &amp; SPECIFIC GRAVITY CALCULATIONS</b> – c1973
V1218.4	<b>MODELING THE UNSEEN</b> ( <i>The World of Chemistry</i> ) – 30 min, c1990
V1218.5	<b>A MATTER OF STATE</b> ( <i>The World of Chemistry</i> ) – 30 min, c1990
DVD723	<b>METRIC SYSTEM</b> – 19 min, c1992 - 1994
<b><u>UNIT 4</u></b>	
*V861	<b>CHEMISTRY: THE PERIODIC TABLE &amp; PERIODICITY TABLE</b> – 24 min, c1983
DVD721	<b>ATOMS</b> – 20 min, c1992
V1218.6	<b>THE ATOM</b> ( <i>The World of Chemistry</i> ) – 30 min, c1990
V1218.7	<b>THE PERIODIC TABLE</b> ( <i>The World of Chemistry</i> ) – 30 min, c1990
V1694.2	<b>THE ROTHERFORD-BOHR ATOM</b> ( <i>Electron Arrangement &amp; Bonding</i> ) – 10min, c1992
V1694.4	<b>HOW ATOMS BOND</b> ( <i>Electron Arrangement &amp; Bonding</i> ) – 10min, c1992
DVD305	<b>BOHR'S MODEL OF THE ATOM</b> – 26min, c2006

### UNIT 5

- \***(ELECTRONIC RESERVE)** WRITING CHEMICAL FORMULAS – c1973  
\***(ELECTRONIC RESERVE)** CHEMICAL FORMULAS AND NAMES (*Powell*) – c1977  
V3207.2 CHEMICAL EQUATIONS AND ATOMIC AND MOLECULAR  
MASS - 20 min, c2000

### UNIT 6

- \***(ELECTRONIC RESERVE)** NAMING OF COMPOUNDS – c1973 (**ELECTRONIC RESERVE**)  
\***(ELECTRONIC RESERVE)** CHEMICAL FORMULAS AND NAMES (*Powell*) – c1977

### UNIT 7

- \***(ELECTRONIC RESERVE)** MOLECULAR WEIGHT AND MOLES – c1973  
\***(ELECTRONIC RESERVE)** MOLECULAR WEIGHT CALCULATIONS (Section:  
“Percentage Composition of a Compound,” pp. 18 to 27 and Section; “Calculating  
Empirical Formulas,” pp. 42 to 48) (*Powell*) - c1977  
V1692.6 THE MOLE (*The Mole Concept*) – 10 min, c1992  
V1218.11 THE MOLE (*The World of Chemistry*) – 30 min, c1990  
V3207.3 MOLES, PERCENT COMPOSITION, AND THE EMPIRICAL  
FORMULA (*Chemistry: Standard Deviants*) – 31 min, c2000

### UNIT 8

- \***(ELECTRONIC RESERVE)** CALCULATION OF PERCENT COMPOSITION, PART 1 – c1973  
\***(ELECTRONIC RESERVE)** CALCULATION OF PERCENT COMPOSITION, PART 2 – c1973  
\***(ELECTRONIC RESERVE)** DETERMINATION OF THE SIMPLEST FORMULA – c1973  
\***(ELECTRONIC RESERVE)** MOLECULAR WEIGHT CALCULATIONS (Section:  
“Percentage Composition of a Compound,” pp. 18 to 27 and Section; “Calculating  
Empirical Formulas,” pp. 42 to 48) (*Powell*) – c1977  
V3207.3 MOLES, PERCENT COMPOSITION, AND THE EMPIRICAL  
FORMULA (*Chemistry: Standard Deviants*) – 31 min, c2000

### UNIT 9

- \***(ELECTRONIC RESERVE)** INTRODUCTION TO BALANCING EQUATIONS – c1973  
\***(ELECTRONIC RESERVE)** EQUATIONS AND TYPES OF REACTION – c1973  
\***(ELECTRONIC RESERVE)** BALANCING CHEMICAL EQUATIONS (*Powell*) – c1977

### UNIT 10

- \***(ELECTRONIC RESERVE)** CALCULATIONS BASED ON THE CHEMICAL EQUATIONS  
– c1973  
**(ELECTRONIC RESERVE)**  
\***(ELECTRONIC RESERVE)** MASS AND VOLUME RELATIONSHIPS (Section: “Weight to  
Weight Problem,” pp. 3 to 14) (*Powell*) – c1977  
V3207.4 SOLUTION STOICHIOMETRY (*Chemistry: Standard Deviants*)  
-33 min, c2000

**THE WORLD OF CHEMISTRY (SERIES)** – 30 min each, c1990

V1218.1	<b>THE WORLD OF CHEMISTRY</b>
V1218.2	<b>COLOR</b>
V1218.3	<b>MEASUREMENT: THE FOUNDATION OF CHEMISTRY</b>
V1218.4	<b>MODELING THE UNSEEN</b>
V1218.5	<b>A MATTER OF STATE</b>
V1218.6	<b>THE ATOM</b>
V1218.7	<b>THE PERIODIC TABLE</b>
V1218.8	<b>CHEMICAL BONDS</b>
V1218.9	<b>MOLECULAR ARCHITECTURE</b>
V1218.10	<b>SIGNALS FROM WITHIN</b>
V1218.11	<b>THE MOLE</b>
V1218.12	<b>WATER</b>
V1218.13	<b>THE DRIVING FORCES</b>
V1218.14	<b>MOLECULES IN ACTION</b>
V1218.15	<b>THE BUSY ELECTRON</b>
V1218.16	<b>THE PROTON IN CHEMISTRY</b>
V1218.17	<b>THE PRECIOUS ENVELOPE</b>
V1218.18	<b>THE CHEMISTRY OF THE EARTH</b>
V1218.19	<b>METALS</b>
V1218.20	<b>ON THE SURFACE</b>
V1218.21	<b>CARBON</b>
V1218.22	<b>THE AGE OF POLYMERS</b>
V1218.23	<b>PROTEINS: STRUCTURE &amp; FUNCTION</b>
V1218.24	<b>THE GENETIC CODE</b>
V1218.25	<b>CHEMISTRY &amp; THE ENVIRONMENT</b>
V1218.26	<b>FUTURES</b>

**THE MOLE CONCEPT (SERIES)** – 10 min each, c1992

V1692.1	<b>RELATIVE MASS</b>
V1692.2	<b>GAS VOLUMES</b>
V1692.3	<b>COMBINING GAS VOLUMES</b>
V1692.4	<b>AVOGADRO'S HYPOTHESIS</b>
V1692.5	<b>RELATIVE ATOMIC MASS</b>
V1692.6	<b>THE MOLE</b>

**CHEMICAL EQUILIBRIUM (SERIES)** – 10 min each, c1992

V1693.1	<b>UNSTEADY STEADINESS</b>
V1693.2	<b>DYNAMIC EQUILIBRIUM</b>
V1693.3	<b>REACTION KINETICS</b>
V1693.4	<b>REACTION TENDENCIES</b>
V1693.5	<b>THE EQUILIBRIUM CONSTANT</b>
V1693.6	<b>THE HABER PROCESS</b>

**ELECTRON ARRANGEMENT (SERIES)** – 10 min each, c1992

- V1694.1 INTRODUCING THE PLAYERS
- V1694.2 THE ROTHERFORD BOHR ATOM
- V1694.3 ELECTRON ARRANGEMENT
- V1694.4 HOW ATOMS BOND
- V1694.5 METALS AND IONIC SOLIDS
- V1694.6 MOLECULAR SUBSTANCES & COVALENT CRYSTALS

**ELECTROCHEMISTRY (SERIES)** – 10 min each, c1992

- V1695.1 THE BUILDING BLOCKS OF ELECTROCHEMISTRY
- V1695.2 ELECTROCHEMICAL CELLS
- V1695.3 DESIGNING ELECTROCHEMICAL CELLS
- V1695.4 COMMERCIAL ELECTROCHEMICAL CELLS
- V1695.5 CORROSION
- V1695.6 ELECTROPLATING

**CHEMISTRY: THE STANDARD DEVIANTS (SERIES)** – c2000

- V3207.1 INTRODUCTION TO MATTER, THE ELEMENTS, AND UNITS OF MEASURE – 26 min.
- V3207.2 CHEMICAL EQUATIONS AND ATOMIC AND MOLECULAR MASS – 20 min.
- V3207.3 MOLES, PERCENT COMPOSITION, AND THE EMPIRICAL FORMULA 31 min.
- V3207.4 SOLUTION STOICHIOMETRY – 33 min.
- V3207.5 THERMOCHEMISTRY – 17 min.
- V3207.6 ATOMIC STRUCTURE – 27 min.
- V3207.7 CHEMICAL BONDING – 18 min.
- V3207.8 MOLECULAR GEOMETRY AND BONDING THEORIES – 18 min.
- V3207.9 GASES AND STATES OF MATTER – 33 min.
- V3207.10 PROPERTIES OF SOLUTIONS – 28 min.

**WORKING WITH PROTEINS (SERIES)** – 20 min each, c1997

- V2634.1 FRACTIONATING A CELL
- V2634.2 COLUMN CHROMATOGRAPHY
- V2634.3 DETERMINING MASS AND SHAPE
- V2634.4 ACTIVITY ASSAYS
- V2634.5 SEQUENCING A PROTEIN
- V2634.6 SOLVING CRYSTAL STRUCTURES