

COLONEL BY SECONDARY SCHOOL
SCIENCE DEPARTMENT

ASSESSMENT & EVALUATION RECORD

COURSE SCH3UE: HL Chemistry: International Baccalaureate

NAME: _____

TEACHER: _____

savitapall.com

Topics Covered in Year I: HL Chemistry: International Baccalaureate

Throughout this course, students will study the following:

Topic 1 Quantitative Chemistry

- 1.1. The mole concept and Avogadro's constant.
- 1.2. Formulas.
- 1.3. Chemical Equations.
- 1.4. Mass and gaseous volume relationship in chemical reactions.
- 1.5. Solutions

Topic 2 Atomic Structures

- 2.1. The atom.
- 2.2. The mass spectrometer.
- 2.3. Electron Arrangement.

Topic 3 Periodicity

- 3.1. The periodic table.
- 3.2. Physical Properties.
- 3.3. Chemical Properties.

Topic 4 Bonding

- 4.1. Ionic Bonding.
- 4.2. Covalent Bonding.
- 4.3. Intermolecular Forces.
- 4.4. Metallic Bonding.
- 4.5. Physical Properties.

Topic 8 Acids and Bases

- 8.1. Theories of acids and bases.
- 8.2. Properties of acids and bases.
- 8.3. Strong and weak acids and bases.
- 8.4. The pH scale.

Topic 11 Measurement and Data Processing

- 11.1. Uncertainty and error in measurement.
- 11.2. Uncertainties in calculated results.
- 11.3. Graphical techniques.

Topic 12 Atomic Structure

- 12.1. Electron configuration.

Topic 13 Periodicity

- 13.1. Trends across period 3.
- 13.2. First-row d-block elements.

Topic 14 Bonding

- 14.1. Shapes of Molecules and Ions.
- 14.2. Hybridization.
- 14.3. Delocalization of electrons.

Option D Medicine and Drugs

- D.1. Pharmaceutical products.
- D.2. Antacids.
- D.3. Analgesics.
- D.4. Depressants.
- D.5. Stimulants.
- D.6. Antibacterials.
- D.7. Antivirals.
- D.8. Drug action.
- D.9. Drug design.
- D.10. Mind-altering drugs.

