MIMOSA
TECHNICAL CONSULTING & CONTRACTING

University Chemistry

Representative experiments from foundation to applied chemistry

12 illustrated examples selected from the wider Leybold / LD DIDACTIC educational range.

VIEW • SELECT • CONFIGURE • INSTALL • TRAIN

Available experiment examples

C1.1.2.1 | Foundation chemistry

Melting ice and boiling water

Record temperature through phase changes using digital measurement.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES
Heating curves; latent heat; phase transitions; sensor-based data acquisition.





C2.3.2.1 | Organic / chemical engineering

Fractional petroleum distillation

Separate an artificial crude-oil mixture using a bubble-tray column.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES
Boiling ranges; fractionation; temperature profiles; petroleum products.

Available experiment examples

C3.2.3.1 | Analytical chemistry

Chromatographic separation of leaf pigments

Extract and separate plant pigments by thin-layer chromatography.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Sample preparation; mobile and stationary phases; Rf values; compound identification.





C3.5.2.1 | Analytical chemistry

Conductometric acid–base titration

Locate the equivalence point of hydrochloric acid and sodium hydroxide from conductivity.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Ion mobility; titration curve; equivalence point; quantitative concentration analysis.

Available experiment examples

C3.5.2.2 | Analytical chemistry

Conductivity and pH titration

Follow the same neutralisation with two independent measurement methods.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES
Conductivity and pH curves; sensor comparison; equivalence-point agreement.





C4.4.3.1 | Physical chemistry

Electrochemical series

Measure cell voltages for combinations of metals and construct an electrochemical series.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES
Half-cells; electrode potentials; reference systems; noble and base metals.

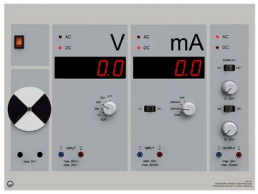
Available experiment examples

6644071 CPS system | Physical / technical chemistry

Electrochemistry laboratory platform

One panel combines power supply and measurement for a broad electrochemistry programme.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES
Conductivity; galvanic cells; electrolysis; Faraday laws; corrosion protection; fuel cells.





591501 | Foundation / undergraduate

Student electrochemistry set

A compact set for current flow and electrode experiments in aqueous solutions.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES
Electrodes; electrolytes; polarity; electrolysis; comparison of metals.

Available experiment examples

Science Lab AC • 207211S | Foundation university

General and inorganic chemistry programme

A broad experimental route through inorganic substances and reactions.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Stoichiometry; water and gases; metals; acids and bases; salts; redox reactions.





Science Lab OC • 207221S | Foundation university

Organic chemistry programme

More than 45 possible experiments when combined with the Chemistry Basic set.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Hydrocarbons; functional groups; esterification; oxidation; synthesis and purification.

Available experiment examples

Science Lab PC • 207231S | Physical chemistry

Reaction kinetics and equilibrium

Student investigations of factors governing reaction rate and equilibrium.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Concentration; temperature; catalysts; reaction order; equilibrium displacement and energy effects.





Science Lab TBC • 207241S | Applied chemistry

Technical and biochemical applications

Links chemical principles to products, processes, food and biological materials.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Separation processes; polymers and products; fats; carbohydrates; proteins and food analysis.

MIMOSA
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Zein Alabdin Zreik
Maintenance Manager

+963 930 466 602
zein.zreik@mimosasyria.com
www.mimosasyria.com
Abou Romaneh, Shakeeb Arslan Street
Masri Building, Damascus, Syria

mimosasyria mimosa_syria mimosa-syria

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