MIMOSA
TECHNICAL CONSULTING & CONTRACTING

School Physics & Chemistry

Representative experiment systems for secondary schools

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

VIEW • SELECT • CONFIGURE • INSTALL • TRAIN

Available experiment examples

Science Lab ME2 • 207112S | School / basic university

Mechanics: forces, machines and oscillations

A modular student set used with the Physics Basic set for hands-on mechanics.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Deformation by force; combining forces; levers; pulleys; inclined plane; harmonic and forced oscillations; standing waves.





Science Lab ME4 • 207114S | School / basic university

Acoustics and sound

Student investigations of sound generation, propagation and resonance.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Oscillations and sound; sound propagation; resonance; beat; frequency and noise analysis.

Available experiment examples

Science Lab EL1 | Secondary school

Electricity and basic electronics

A safe, tray-based route into electric circuits and measurement.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Current and voltage; series and parallel circuits; resistance; electrical power; electromagnetism; introductory components.





Science Lab OP1 • 207141S | Secondary school

Geometrical optics

Compact optical components for structured student work.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Propagation of light; reflection; refraction; lenses; image formation; optical instruments.

Available experiment examples

Science Lab AC • 207211S | Secondary school

General and inorganic chemistry

A reusable chemistry module combined with the Science Lab Chemistry Basic set.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Material properties; chemical reactions; water; gases; metals; acids, bases and salts.





Science Lab OC • 207221S | Secondary / introductory university

Organic chemistry

Supports more than 45 experiments when combined with the Chemistry Basic set.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Hydrocarbons; alcohols; aldehydes and ketones; carboxylic acids and esters; synthesis and reactions.

Available experiment examples

Science Lab PC • 207231S | Secondary / introductory university

Physical chemistry and electrochemistry

Supports more than 50 experiments, with optional Mobile-CASSY digital evaluation.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Electrochemistry; physical processes; reaction energy; reaction rate; chemical equilibrium.





Science Lab TBC • 207241S | Upper secondary / college

Technical chemistry and biochemistry

Connects chemistry with products, processes, food and biological materials.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Technical products; separation processes; fats; carbohydrates; proteins; food analysis; applied biochemistry.

Available experiment examples

Science Lab ME3 • 207113S | Upper secondary / basic university

Linear motion, free fall and collisions

Digital timing components and precision rails support quantitative motion experiments.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Uniform and accelerated motion; free fall; momentum; elastic and inelastic collisions; graphical evaluation.





Science Lab EG1 • 207121S | Secondary school

Energy and heat

A modular route from mechanical work and heat to energy conversion.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Mechanical work; thermal energy; calorimetry; heat transfer; efficiency and energy conservation.

Available experiment examples

Science Lab OP3 • 207143S | Upper secondary / college

Wave optics and polarization

Extends geometrical optics into interference, diffraction and polarization.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Single and double slit; diffraction gratings; polarization; wave character of light.





Science Lab OP4 • 207144S | Upper secondary / basic university

Advanced optical experiments

Additional optical components for a broader experimental programme.

EXPERIMENT EXAMPLES / LEARNING OUTCOMES

Interference and diffraction extensions; optical measurement; spectroscopy pathways and advanced student projects.

MIMOSA
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