

EXPERIMENT CASES FOR SCIENCES AND TECHNOLOGY EDUCATION





HANDS-ON STEM LEARNING MADE EASY AND FASCINATING



CONCEPT

- Collections of boxes each dedicated to a specific topic
- Optimized selection of equipment in each box allowing the realization of a series of experiments
- Experiments topics directly inspired by international science education programs
- Modular concept with basic boxes completed by complementary boxes for the complex topics
- Complete solution combining equipment, chemicals bundles, educational literature and safe storage system
- Boxes made of durable plastic with captive lid and pre-formed foam inserts for long-lasting and dust-free storage of components
- Patented bayonet locking system and incorporated folding handle allows stable stacks to be built and transported with a single hand
- Hands-on expriments for students reinforce sciences learning and problem solving skills
- Introduces students to the handling of instruments, deepens theoretical subjects
- Full experimental documentation with student and teacher books
- Color coded labels with icons clearly visible for easy identification
- Designed to help teachers in their practical lessons

STORAGE SYSTEM



- Captive lid with incorporated folding handle
- Transportable with a single hand
 Safe and easy storage thanks to foam tray inserts
 Quick content check, everything has its place



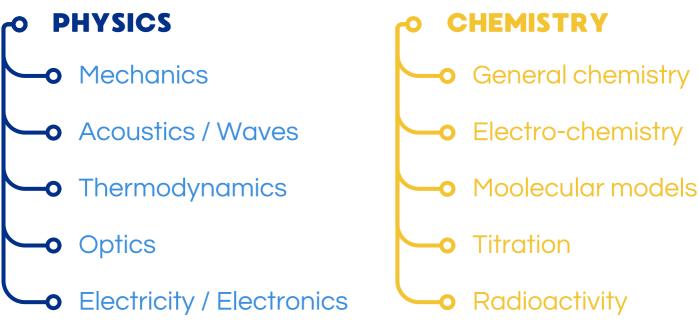


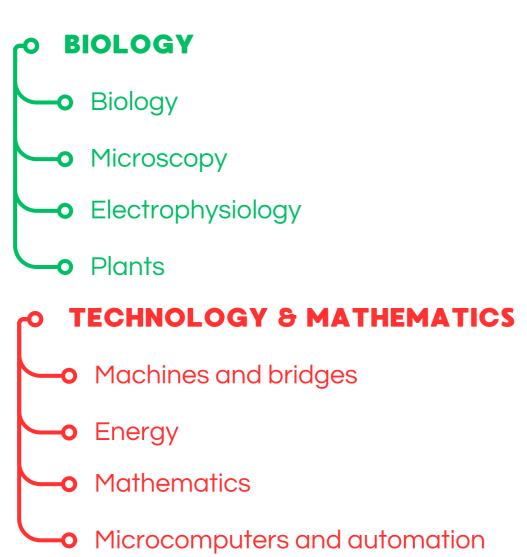
- Rugged and stackable
- Long lasting effective storage extending equipment lifetime

Patented bayonet locking system

AVAILABLE TOPICS







OPTIMIZATION



Comprehensive range covering Physics, Chemistry, Biology and Engineering

Suitable for all levels of secondary education

All feasible experiments are documented and their number is sufficient to cover an entire year of practicals

Quantities of chemicals and consummables are foreseen for at least one year of normal use

The equipment can be used by groups of 2 students to increase profitability

The teacher books contains implementation tips and hints, safety advices as well as a set of typical results and answers to the corresponding student sheets

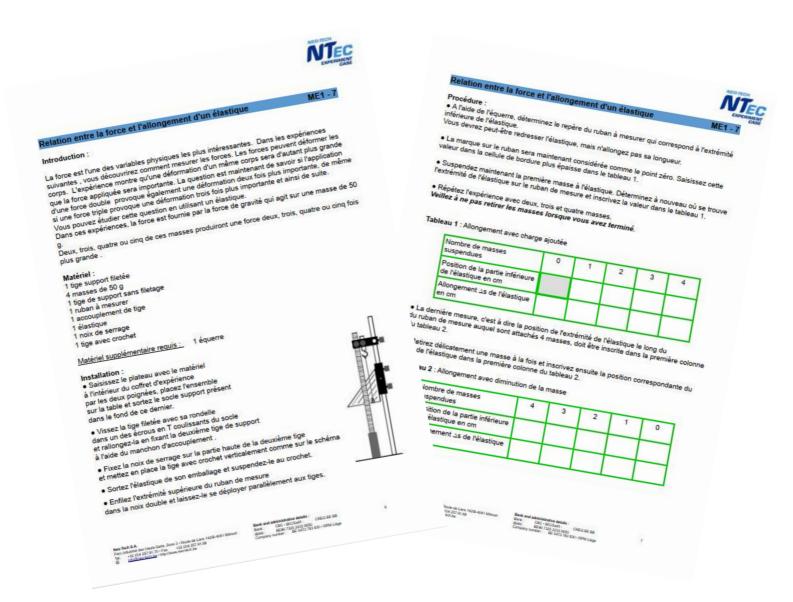
Experiments demonstrate errors and uncertainties encountered during practical hands-on manipulations unlike simulation systems

EDUCATIONAL LITERATURE



Student book

- Precise statement of problem
- Theoretical fundamentals reminders
- Necessary equipment list
- Set-up instructions and sketch of the mounting
- Procedural instructions
- Prepared record tables
- Questions for results evaluation

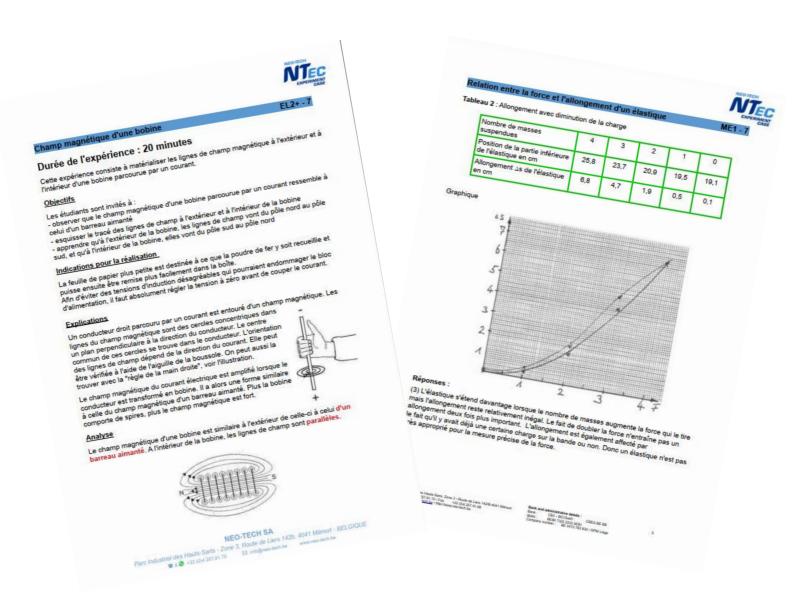


EDUCATIONAL LITERATURE



Teacher book

- Statement of learning objectives
- Hints on set-up and safety advice
- Typical results and diagrams
- Answers to the questions of the student book





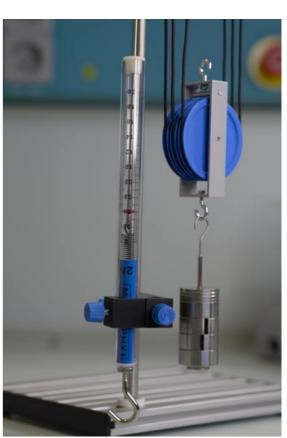
Mechanics

- ME1 Basics
- ME2 Forces
- ME3 Kinematics / Dynamics
- + ME2
- ME3+ Kinematics / Dynamics / Energy / Impulse



- ME4 Liquids and Gases
- + ME2
- ME5 Datalogging interface
- ME6 Vibrations and waves
- ME7 Circular motion apparatus









Acoustics / Waves

- AC1 Basics
- AC2 Experiments with datalogging interface
- AC3 Ultrasounds
- AC4 Doppler effect apparatus





Thermodynamics

- TH1 Basics
- TH2 Heat capacity and Energy
- TH3 Internal process with datalogger









Optics

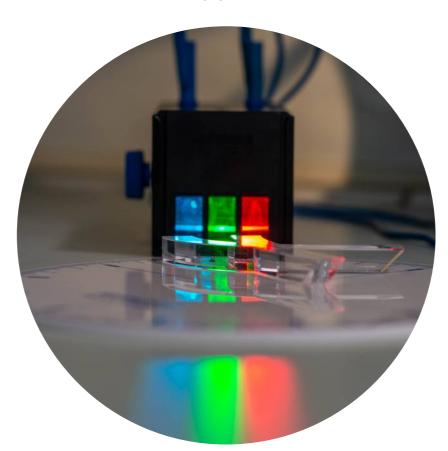
- OG1 Geometrical optics
- OG2 Projection optics







- OW1+ Wave optics
- + OG1
- OG4 Interferometer
- OG5 Planck's constant apparatus







Electricity / Electronics

- EL1 Circuits
- EL2 Electro- & Magneto-statics,
 Induction



- EL3 Specific resistances
- EL4 Lorentz's law
- EL5 Oscilloscope & logger + EL2
- EL6 Equipotential curves
- EL7 Electronics 1
- EL8 Electronics 2
- EM Electricity and Magnetism,
 Basics





CHEMISTRY



Chemistry

- CH1 Basic labware
- CH2 Basic glassware add-on
- CH3 Molecular models
- CH4 Electrochemistry 1 + CH1 & 2
- CH5 Electrochemistry 2
- CH7 Titration with MGA + CH1 & 2
- RA1 Radioactivity









BIOLOGY



Biology

- BB1 Biology, basic set
- BM1 Microscopy +BB1
- BA1 Electrophysiology
- BP1 Plants 1 +BB1
- BP2 Plants 2 with interface





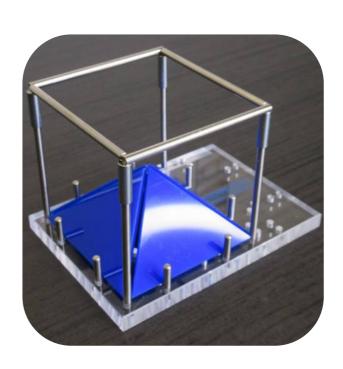


TECHNOLOGY & MATHEMATICS TECHNOLOGY



Mathematics

- MTH1 Geometry 1
- MTH2 Geometry 2
- MTH3 Fractions
- MTH4 Integers





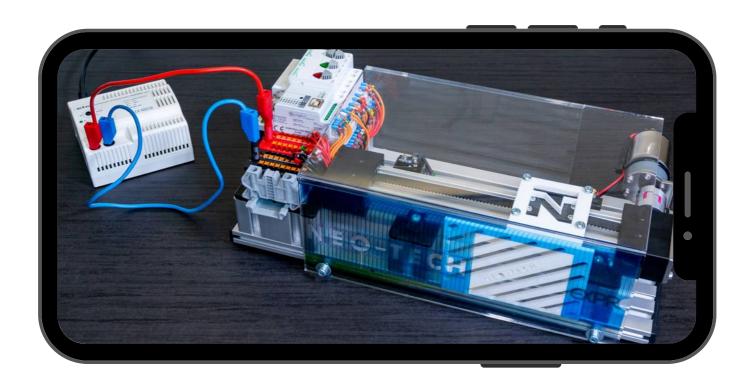
TECHNOLOGY & MATHEMATICS



Technology



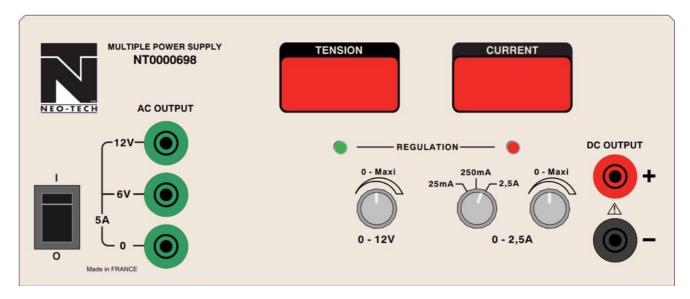
- TE1 Machines and bridges
- TE2 Energy
- TE3 Microcomputers & automation
- TE4 Electro-pneumatics manipulator arm



ACCESSORIES



Low voltage power supply



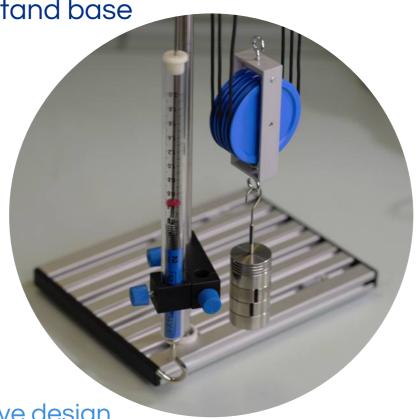
- Dual digital display
- AC and DC outputs on 4 mm safety sockets
- Limited to 12V for student safety
- AC outputs 6 or 12 V / 5A
- Adjustable DC output 0 to 12V / 0 to 2.5 A with automatic votage and current regulation
- Fuse and thermal circuit-breaker protection
- Manufactured in Europe



ACCESSORIES



Universal stand base



- Innovative design
- Aluminium profile base
- Anti-slip rubber feets
- 4 grooves allowing fully adjustable rod fixing
- Sliding T-nuts with M8 thread
- Possibility to firmly join several bases together
- Storage location provided inside the experiment cases

ACCESSORIES





Universal track

- 1 meter length
- Screen-printed scratchproof white mm scale
- Can be used as optical bench, inclined plane and motion track



- AC/DC up to 30V/10A
- Adjustable Zero position (left or central)





Balance 1200g x 0.1g

- Stainless steel pan
- Works on batteries or 220V mains

ORDERING REFERENCES



Neo-Tech sa Tel.: +32 4 257 91 70 Parc Industriel des Hauts Sarts III Fax: +32 4 257 91 88

Parc Industriel des Hauts Sarts III Route de Liers 142 4041 Milmort / Belgique Tel.: +32 4 257 91 70 Fax: +32 4 257 91 88 e-mail: info@neo-tech.be www.neo-tech.be

	REFERENCE	Socle	Alimentation	Rail	Multimètre	Balance	NÉCESSITE
Mechanics ME1 Basics	NT-01.00.00	1				1	
Mechanics ME2 Forces	NT-02.00.00	1		1			
Mechanics ME3 Kinematics/Dynamics	NT-03.00.00						ME2
Mechanics ME3+ Kinematics/Dynamics /Energy/Impulse	NT-03.00.80						ME2
Mechanics ME4 Liquids and gases	NT-51.00.00					1	
Mechanics ME5 MGA interface	NT-17.00.00						ME2
Mechanics ME6 Vibrations and waves	NT-54.00.00		1	1			
Mechanics ME7 Circular motion apparatus	NT-57.00.00						
Acoustics AC1 Basics	NT-16.00.00	1					
Acoustics AC2 Experiments with datalogging interface	NT-15.00.00						
Acoustics AC3 Ultrasounds	NT-12.00.00				1		
Acoustics AC4 Doppler effect apparatus	NT-58.00.00						
Thermodynamics TH1 Basics	NT-16.00.00	1					
Thermodynamics TH2 Heat capacity and Energy	NT-10.00.00		1		2		
Thermodynamics TH3 Internal process with interface	NT-53.00.00	1	1	1	2	1	TH2
Optics OG1 Geometrical optics	NT-04.00.00		1				
Optics OG2 Image optics	NT-05.00.00			1			OG1
Optics OW1 Image optics and prism	NT-05.00.40			1			OG1
Optics OW1+ Wave optics	NT-05.00.50			1			OG1
Optics OG4 Interferometer	NT-52.00.00				1		
Optics OG5 Planck's constant apparatus	NT-19.00.00		1				
Electricity EL1 Electric circuits	NT-06.00.00		1		2		
Electricity EL2 Electrostatics, Magnetostatics, Induction	NT-07.00.00		1		2		
Electricity EL2+ Electrostatics, Magnetostatics, Induction, Lorentz force	NT-07.00.50		1		2		
Electricity EL3 Specific resistances	NT-09.00.00		1		2		
Electricity EL4 Lorentz's law	NT-18.00.00		1		2		
Electricity EL5 Oscilloscope and interface	NT-14.00.00						EL2
Electricity EL6 Equipotential curves	NT-55.00.00		1		1		
Electricity EL7 Electronics 1	NT-08.00.00				2		
Electricity EL8 Electronics 2	NT-59.00.00		1		2		
Electricity EM Electricity and magnetism, basics	NT-42.00.50						
Chemistry CH1 Basic labware	NT-20.00.00						CH2
Chemistry CH2 Basic glassware add-on	NT-21.00.00						СН1
Chemistry CH3 Molecular models	NT-25.00.00						
Chemistry CH4 Electro-chemistry 1	NT-22.00.00	1	1			1	CH1&2
Chemistry CH5 Electro-chemistry 2	NT-24.00.00		1				
Chemistry CH7 Titration with MGA interface	NT-56.00.50	1	1			1	CH1&2
Chemistry RA1 Radioactivity	NT-13.00.00						
Biology BB1 Basic equipment	NT-31.00.00						
Biology BM1 Microscopy	NT-30.00.00						BB1
Biology BA1 Electrophysiology	NT-33.00.00	1					BB1
Biology BP1 Plants 1	NT-32.00.00	- 1					BB1
Biology BP2 Plants 2 with interface	NT-37.00.00						
Mathematics MTH1 Geometry 1	NT-91.00.00						
Mathematics MTH1 Geometry 2	NT-92.00.00						
Mathematics MTH3 Fractions	NT-94.00.00						
Mathematics MTH4 Integers	NT-95.00.00						
Technology TE1 Machines and bridges	NT-45.00.50	2					
Technology TE2 Energy	NT-11.00.00		1	1	2		
Technology TE3 Microcomputer & automation	NT-98.00.00						
Technology TE4 Electro-pneumatic arm manipulator	NT-99.00.00						