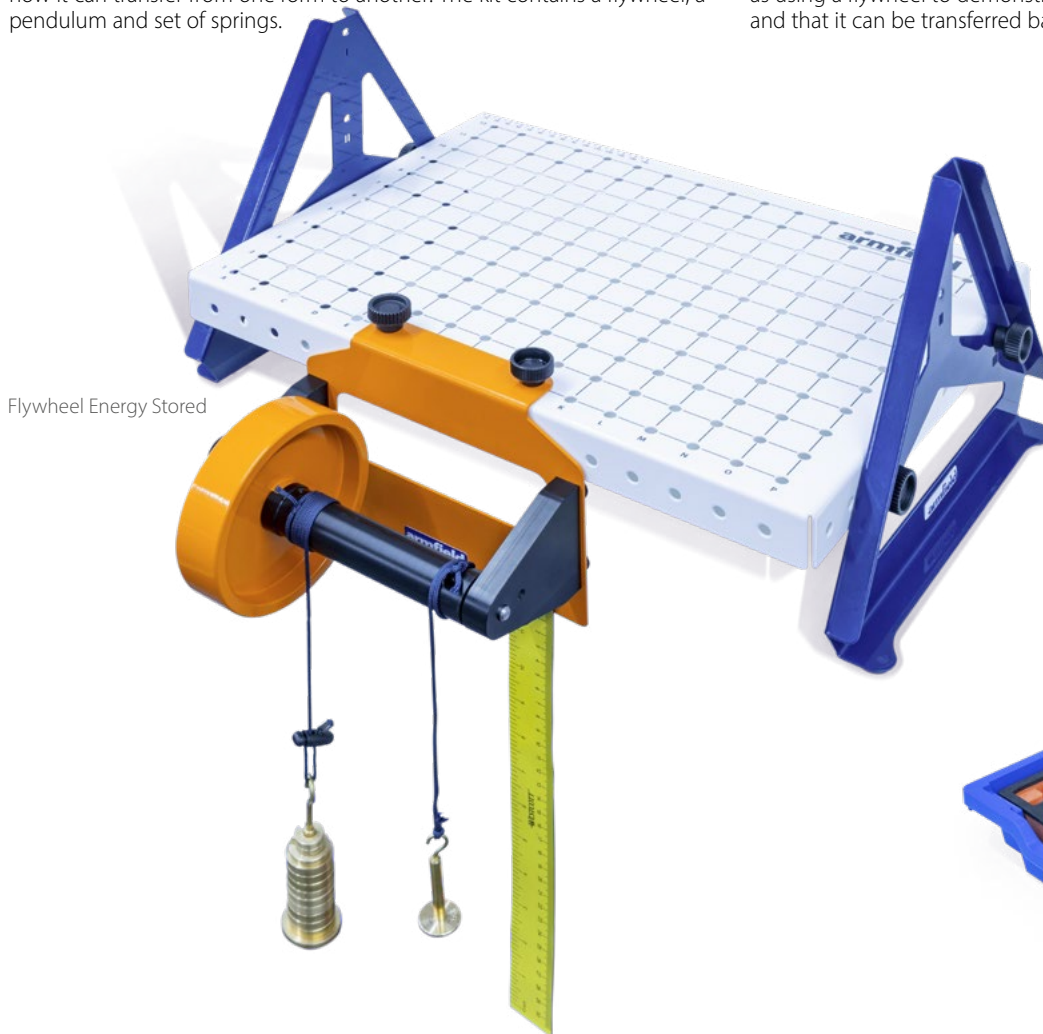


The Engineering Fundamentals range enables students to gain an understanding of the principles of engineering by the process of learning via experimentation.

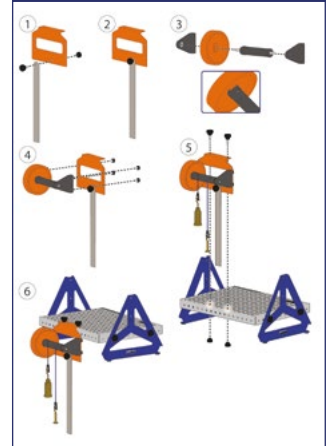
The EF-2.4 Potential and Kinetic Energy experiments kit enables students to understand the difference between potential and kinetic energy and how it can transfer from one form to another. The kit contains a flywheel, a pendulum and set of springs.

AN INNOVATIVE HANDS ON MODULAR SYSTEM DESIGNED TO ENABLE INVESTIGATION AND THE UNDERSTANDING OF ENGINEERING PRINCIPLES

The kit will allow students to verify Hooke's law, teach them about energy transfer from potential to kinetic energy using a simple pendulum as well as using a flywheel to demonstrate energy transfer from potential to kinetic and that it can be transferred back again via storage and release.

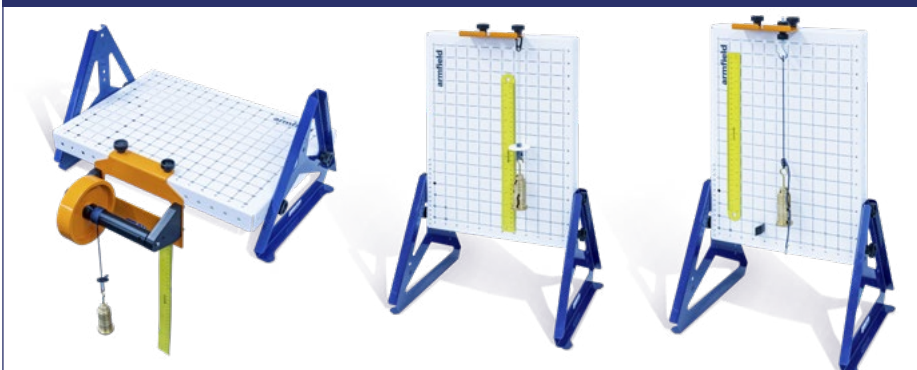


Easy to follow instructions



1 tray supplied with EF-2.4

Experiments shown below, flywheel - potential and kinetic energy, Tension in a spring extension, pendulum



Brake detail



Features / benefits

Features

- Neatly presented in an easily identifiable and durable storage tray
- Trays have clear lids making it easy to see their contents
- Pictorial tray contents list to identify missing components easily
- Accompanied by a detailed manual with various practical exercises
- Clear and concise assembly instructions for each experiment
- Multiple experiments per kit
- Toolless assembly

Benefits

- Hands-on understanding from lessons
- Improve the student's dexterity by self-assembly with the instructions provided

Requirements

Scale

EF-BU

Experiment tray scale



EF-BU scale



EF-WS scale



- EF-BU on which to build the experiment from the tray components
- Level and stable work surface to mount the EF-BU upon. The optional EF-WS is ideal for this if no suitable desk or bench is available.

Experimental content

- Kinetic and potential energy in a pendulum
- Elastic (potential) energy in a spring
- Kinetic energy in a flywheel
- Energy transfers
- Overcoming losses



Overall dimensions

Tray

Length	0.430m
Width	0.312m
Height	0.080m

Packed and crated shipping specifications

Volume	0.02m ³
Gross weight	5.0Kg

Essential accessories / equipment

- EF-BU Base Unit

Related products

- EF-BU Base Unit

Statics Experiments

- EF-1.1 Forces
- EF-1.2 Moments
- EF-1.3a Beams
- EF-1.3b Trusses
- EF-1.4 Springs
- EF-1.5 Torsion

Dynamics Experiments

- EF-2.1 Friction
- EF-2.2 Simple Harmonic Motion
- EF-2.3 Rotational Friction
- EF-2.4 Potential and Kinetic Energy
- EF-2.5 Centrifugal and Centripetal Force

Mechanisms Experiments

- EF-3.1 Cam, Crank and Toggle
- EF-3.2 Simple Mechanisms
- EF-3.3 Additional Mechanisms
- EF-3.4 Bar Linkages

Kinematics

- EF-4.1 Pulleys
- EF-4.2 Gears
- EF-4.3 Drive Systems

Strength of Materials

- EF-5.1 Tensile Tester

Options

- EF-WS Workstation

Ordering specification

- Flywheel
- 500mm cord T-end
- 1000mm cord T-end
- 300mm cord w/o carabiner
- 250g weights set on hanger
- Magnetic ruler 300mm/12"
- Magnetic indicator
- Stopwatch
- Compression spring 0.05N/mm
- Compression spring 0.07N/mm

Ordering codes

- EF-2.4 - Potential and Kinetic Energy
- EF-BU - Base Unit
- EF-WS - Workstation (optional)

Armfield standard warranty applies with this product

Knowledge base

- > 28 years expertise in research & development technology
- > 50 years providing engaging engineering teaching equipment

Benefit from our experience, just call or email to discuss your laboratory needs, latest project or application.

An ISO 9001:2015 Company



armfield.co.uk

Aftercare

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Commissioning
Training
Service and maintenance
Support: armfieldassist.com