

## Product Information Sheet

### Basic Electricity Trainer



Our STEM learning packages have been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment.

These activities will provide an engaging approach that helps instructors show contextualized linkages between Science, Technology, Engineering, and Mathematics.

Students will have access to hands on learning opportunities within our optional cloud-based STEM curriculum software packages. This easy to use software also contains theory presentations, virtual investigations, and support materials to underpin the practical tasks.

The Basic Electricity Trainer offers practical learning opportunities designed to investigate fundamental electrical circuits and components using a robust self-contained hardware unit.

#### Typical Topics Include:

- Electric Current
- Voltage
- Resistance
- Relationship between Voltage, Current and Resistance
- Switches
- Safety and Protection Devices
- Magnetism
- Motors
- Generators and Transformers
- Problem Solving

#### Circuit Components Include:

- Batteries
- Switches (Push to Make, Push to Break, Toggle, 2Way)
- Lamps x3
- LED Indicators (Red and Green)
- Buzzer
- Generator/Motor
- Relay
- Wire Wound Resistor
- LDR
- Heater and Thermistor

#### Items Included:

- Basic Electricity Trainer
- Accessory Kit
- Mains Lead
- Digital Multimeter

#### Other Items Required:

- LJ Create Engineering or Technology Content
- Computer

#### General Information:

Power Requirements: 110 – 240V 50-60Hz  
Trainer Dimensions: 375 x 130 x 285 mm (W x H x D)  
Packed Volume: Approx. 0.1 m<sup>3</sup>  
Packed Weight: Approx. 8.6 kg

**Order Code: 140-01**

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