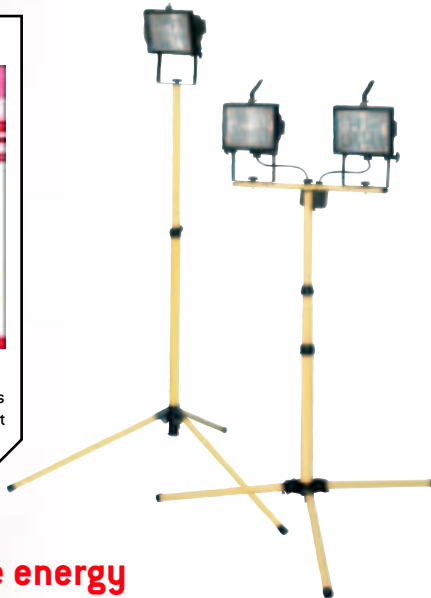


Products update

➔ <http://www.mutr.co.uk>



The Middlesex University Teaching Resources website has a vast selection of products for all types of projects and classroom experiments. Categorized into different product sections, items can easily be found, or you can perform a simple site search. Secure online ordering and special low prices for schools.



Alternative energy

Alternative energy and methods of energy-saving are increasingly topical and present wide opportunities for designing and making. Many colleagues already make extensive use of the new solar panels for 'green power' projects e.g., solar-powered clocks using a **solar panel** (EC4 050), **quartz clock movement** (CC3 001), and one of the new re-chargeable **NiCad batteries** (EB2 010) as night-time back-up.

For projects needing higher power levels, the problem with solar panels has usually been the unpredictable supply of sunlight. One solution is to use high wattage lamps for indoor testing and proving. To this end, we can now offer low-cost **halogen floodlights** in either 500 or 1000 watt versions. Each of these is floor-standing and fully adjustable for height and angular movements.

- ➔ **Single lamp floodlight** – stock code T00 110
- ➔ **Twin head floodlight** – stock code T00 111

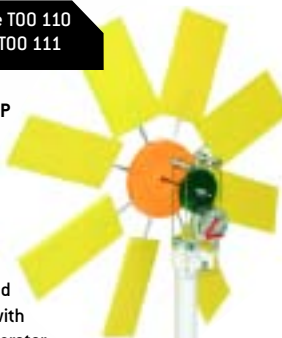
An entirely new development is the **TEP wind turbine kit** originally developed for use by the British Council. It is quickly assembled and can generate small amounts of electrical energy. The unit can be used as an effective teaching tool, for science investigations or as a starting point for more sophisticated wind turbine design. The kit comes complete with a 1 metre long standing column, generator assembly and 8 pre-cut blades. The size and angle of these blades determines performance - e.g., too great an angle and drag reduces the speed.

➔ **Wind turbine kit** – Stock code BCE 009

Alternative blade shapes and sizes can be cut from standard 3mm corriflute (CS6 001J) and slipped onto the turbine wheel spokes.

Because wind is almost as capricious as sunshine, there is now an alternative in the form of two mains-powered fans. Both of these will drive the turbine from a distance of over one meter.

- ➔ **12" Desk fan** – stock code T00 106
- ➔ **16" Pedestal fan** – stock code T00 107



Autumn 2005 sees the arrival of a wealth of low-cost tools and some truly unique resources from TEP and TR. All these and more can be found by following the links from the TEP website under the 'resources' tab.



NEW Packs

The high demand for the TEP Smart Materials book together with samples of the materials it describes has resulted in a new combined product: the book plus a box of samples. Both are now supplied at less than the cost of each separately.

➔ **Smart Materials book with sample set** – stock code T00 005

Similarly, high demand for samples of **QTC** (quantum tunnelling composite) has resulted in a starter kit comprising samples of this revolutionary new material. QTC changes from an insulator to a conductor when stressed, and the pack includes samples of 'pills', sheet and cable to investigate and demonstrate this effect. Brief introductory notes are also included.

➔ **QTC Starter pack**
stock code QTC 004



The TEP Boat Challenge (News & Views 11) calls for buoyant modelling materials such as expanded polystyrene. This is now available as standard **pre-cut floats** 25mm x 50mm x 250mm that can be used for single or double hulls – or glued together to make larger blocks.

➔ **Polystyrene floats** – stock code BF1 001



NEW Tools

TEP and Teaching Resources have been inundated with requests for additional equipment and so we have expanded the low-cost hand and power tools range as requested. We can now offer the following at less than supermarket prices.

- Mini-drill set with 60 accessories
stock code T00 095 (A)
- Framed mitre saw
stock code T00 097 (B)
- 40mm capacity Mini Vice
stock code T00 108 (C)
- 24" Spirit level
stock code T00 109 (D)
- 900 watt variable speed Plunge Router
stock code T00 101 (E)
- Router bit set (for Plunge Router)
stock code T00 102 (F)
- 900 watt Biscuit Joiner
stock code T00 100 (G)



Moulded Plastics trimming saw

This simple but unique saw makes it possible to trim the waste accurately and safely from press-formed and thicker vacuum formed plastics. It is particularly suitable for the finishing of TEP 'pods' created by plug and yoke forming. The press-formed pod is simply rubbed against a replaceable blade tensioned across an MDF surface. The saw is complete with a blade and an MDF base. It can be free standing or bench mounted and is a quite unique tool from TEP and TR.

- Moulded Plastics trimming saw – stock code PP1 001



1 metre long Steam Chest

Small scale steam laminating is possible with this chest and is supplied complete with an all-plastic electric boiler, high temperature connecting hose and instructions. This model features an extended steam tube over the original model due to demand from school users. (note: this is an alternative to the standard model available as ST1 001)

- 1m long Steam Chest – stock code ST1 001A



Graphics

In response to colleagues' requests for additional graphics resources, we can now offer an A3 size laminator and A4 paper cutter together with a low-cost felt-tip pens. Also on offer is a new 'professional' grey scale range of markers.

- Set of 20 assorted felt-tip pens
stock code GM2 101 (A)
- Set of 12 graduated grey markers
stock code GM1 Z12C (B)
- A3 size laminator
stock code GP4 002A (C)
- A4 size paper cutter
stock code T00 098 (D)



You should have received your all-new TR catalogue this term. The new catalogue contains some great extracts and ideas for projects from previous News and Views articles as well as a wealth of supporting information on individual items. If you have not received yours please contact:

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