

The TDI Challenge 2003

Celebrating Technology, Design and Innovation

Context:

The MTA and TEP have developed a partnership of activity in recent years and in particular a successful programme of collaboration with the CD-ROM resource 'Manufacturing Innovation' and more recently the previous MTTA/ TEP Innovation competition. Both the DFES, HMI, QCA and the wider D&T community are seeking to exemplify and establish the principle of innovation as distinct from the design process and the need to teach towards innovation.

At a time of great change in curriculum demands and ever increasing pressures in classroom management and performance, the TDI Challenge seeks to establish the clear links between the school D&T experience and the wider manufacturing and marketplace challenges of industry.



Where literacy and numeracy are key to a 'knowledge economy', innovation and creativity are pivotal in revitalising an industrial economy reliant on quality manufactured goods. MTA and TEP celebrate the opportunity to foster and acknowledge innovative student work in that sector.

This challenge follows on from the success of the MTA/TEP manufacturing innovation award challenge in July 2002 and provides an opportunity for schools and students in Design and Technology to demonstrate clearly the breadth of innovation in the subject.

Entries are open to all secondary schools in the UK and schools may enter as many students or pupils as they wish. There are three age group categories and awards for 1st, 2nd and 3rd prize are available. Prizes include CNC machine tools, Laptops and Digital Cameras



Images for display purposes only

The age categories are:

Group A: 11-13 years

Group B: 14-15 years

Group C: 16-19 years



Schools can submit students work in any of the innovation categories described below:

- Computer Aided Design and Manufacture
- Electronic Product Design and Manufacture
- Systems, Control, Robotics

The TDI Challenge seeks to reward and celebrate individual project work in D&T departments that demonstrates quality designing and making and most importantly innovative work.



Entries for the TDI challenge will need to be received by the MTA by 30th May 2003. Winners in each category will be invited to the D&T exhibition at Birmingham NEC in November.

Entries received will be selected on the following criteria:

- **Innovation:**
Range of ideas and sources explored and developed
- **Manufacturing:**
Quality of manufacture, accuracy, finish and fit
- **Use of technology:**
Selection and use of technology in design and manufacture
- **Manufacturing:**
Range of processes, tools, materials and skills used
- **Presentation:**
Displaying a range of graphic techniques, skills and literacy
- **Research/ Development:**
Evidence of modelling, testing, evaluating, prototyping
- **Reflective practice:**
Problem solving, improvements, production techniques

① **For the school to take part you will need to submit entries on the proforma attached which can also be downloaded from the TEP website at: www.tep.org.uk. The form may also be photocopied.**