

# Communications & Education

## Warwickshire Education Business Partnership STEM Enrichment Day

### Background

Warwickshire Education Business Partnership (WEBP) works with schools, colleges and businesses to prepare young people and adults for working life. WEBP supports work related learning and enterprise education through a variety of activities . Activities such as the STEM (science, technology, engineering and maths) Enrichment Day.

The benefits of the partnership are mutual for all parties.

Businesses:

- ❖ Increase their company profile and community standing,
- ❖ Fulfil corporate social responsibility,
- ❖ Share knowledge and enthusiasm in working practices
- ❖ Creates a positive company culture

Pupils:

- ❖ Business activities which develop young peoples understanding of the world of work
- ❖ Enhance employability skills – team working, communication etc

### *STEM Enrichment Day – Study into wind generation*

A group of year eight Pupils from Etone Secondary school where in for an interesting day when the team from WEBP arrived for the day.

The team from WEBP split the class into groups of around six pupils and set each group the challenge of designing and building a wind energy machine which will make electricity by a revolving rotor similar to a windmill.

During a brief introduction to the day pupils were provided with a short presentation from the WEBP team about what their day would entail and the materials which will be available for them to use. The day was split into of tasks looking at ...

- ❖ Roles and responsibilities of team members
- ❖ Design of rotary system
- ❖ Build of rotary system
- ❖ Voltage testing, using wind tunnel
- ❖ Work schedule planning
- ❖ Structural design of transmission tower
- ❖ Costing sheet

### ❖ Design a Presentation

A number of tasks would be allocated as the day progressed and timescales for completion set. The pupils were enthusiastic during all tasks and produced excellent pieces of work. A number of pupils felt the day was very beneficial as they could combine a number of curricular subjects in one days activities learning how their studies could fit into a real life situation. Pupils found it interesting to learn about the importance of communication and team working in this type of situation.

Once all tasks were completed pupils work was marked and feedback provided. Pupils were then asked to give a presentation regarding their project design, cost and build, and the key skills they felt they had learnt during the day.

The STEM day aims to provide groups of pupils with the following skills

- ❖ Team Working
- ❖ Communication Skills
- ❖ Problem Solving
- ❖ Effective Participation
- ❖ Creative Thinking
- ❖ Tool Safety

All of which are required to perform throughout this educational and fun day. For more information on the work carried out by Warwickshire Education Business Partnership please go to WEBP web pages found on <http://www.warwickshire.gov.uk/>