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## Organising STEM Events

Stimulating activities, with links to organisations who deliver inspiring projects

This section provides examples of schemes and activities provided by organisations that aim to enhance and enrich the curriculum. The activities aim to offer a fun and stimulating opportunity for students to see the relevance of their studies to the world of work and to involve industry in its widest sense. The links offer a gateway to the wide range of activities and materials that can be used with different age ranges and within differing curriculum contexts.

### **STEMNET (Science, Technology, Engineering and Maths Network) – STEM Directories –**

[www.stemnet.org.uk](http://www.stemnet.org.uk)

*STEM Directories are a free resource aimed at helping teachers to pinpoint which activities and events provided by organisations across the UK will enhance and enrich their school curriculum. There are 3 volumes – Science; Engineering & Technology; and Maths. Find out more by visiting: –[www.stemdirectories.org.uk/order.asp](http://www.stemdirectories.org.uk/order.asp)*

### **Science and Engineering Clubs –**

[www.stemnet.org.uk/teachers/After\\_School\\_Science\\_and\\_Engineering\\_Clubs](http://www.stemnet.org.uk/teachers/After_School_Science_and_Engineering_Clubs)

*The Clubs are aimed at enriching, enhancing and extending the KS3 curriculum. The Club website provides access to resources such as the Clubs handbook and links to suppliers, case studies and activities. In addition two programmes have been produced by Teachers' TV that look at how to set-up and run your own Science and Engineering Club.*

### **Science and Engineering Ambassadors –**

[www.stemnet.org.uk/teachers/Using\\_SEAs](http://www.stemnet.org.uk/teachers/Using_SEAs)

*Over 18,000 Ambassadors of all ages and backgrounds represent over 1,000 different STEM employers, and have qualities of enthusiasm and commitment along with a passion for what they do. Ambassadors get involved in helping with school competitions, events and awards, offering mentoring and careers talks, and acting as a role model to young learners.*

*STEMNET has awarded STEMPOINT contracts to a network of local organisations that are able to help identify which schemes or activities can best help schools/colleges to meet student needs.*

### **UK Resource Centre for Women in SET –**

[www.ukrc4setwomen.org](http://www.ukrc4setwomen.org)

*The 'Employers' pages of the UKRC site highlight companies that offer specific activities such as taster days for females. The GetSET database can be used to search for female role models.*

## **WISE (Women into Science and Engineering) -**

[www.wisecampaign.org.uk](http://www.wisecampaign.org.uk)

WISE works creatively with industry and education, offering colourful and innovative tools and approaches to support them in encouraging girls into non-traditional STEM careers. Email [info@wisecampaign.org.uk](mailto:info@wisecampaign.org.uk) for leaflets, careers mindmaps, postcards, and further information.

## **NOISE (New Outlooks in Science and Engineering)**

[www.noisemakers.org.uk](http://www.noisemakers.org.uk)

NOISE is fronted by early-career scientists and engineers known as NOISEmakers who aim to communicate the excitement of science and engineering. NOISE is funded by the Engineering & Physical Sciences Research Council (EPSRC) – [www.epsrc.ac.uk](http://www.epsrc.ac.uk)

## **More maths grads -**

[www.moremathsgrads.org.uk/teachers.cfm](http://www.moremathsgrads.org.uk/teachers.cfm)

This resource will emphasise the career options opening up to students who take their mathematical study beyond GCSE. The project will improve understanding of maths and its applications, from designing racing cars to modelling bird flu. In particular, it will highlight the many doors open to graduates with a degree in the mathematical sciences. A series of high quality careers resources are available for use by students, teachers, and careers advisers. The resources will be available nationally on the [www.mathscareers.org.uk](http://www.mathscareers.org.uk) website.

## **Smallpeice Trust STEM enrichment days -**

[www.smallpeicetrust.org.uk](http://www.smallpeicetrust.org.uk)

In-school event organisers for STEM activities

## **The Industrial Trust -**

[www.industrialtrust.org.uk](http://www.industrialtrust.org.uk)

The Trust will organise themed STEM-related events for/with schools.

## **Go4SET -**

[www.go4set.org.uk](http://www.go4set.org.uk)

Project based activity to support subject choice decisions.

## **Greenpower F24 -**

[www.greenpower.co.uk/racing/formula24.php](http://www.greenpower.co.uk/racing/formula24.php)

Enable schools to compete in building electric cars which culminates in a race.

## **Enterprising Science (supported by BP) -**

[www.enterprisingscience.com](http://www.enterprisingscience.com)

Includes arranging an in-school roadshow.

## **BAE Systems Schools Roadshow -**

[www.baesystems.com/education](http://www.baesystems.com/education)

Offers a science and design & technology theatre production plus a one hour workshop, carried out in schools.

## STEM Impact on the curriculum

STEM enrichment and enhancement activities can have a powerful effect on young people's learning and career development. In order to measure the impact of these activities, and provide a continuous improvement strategy, the following framework sets out four different levels of performance and provides a ladder of progression

**Level 1 – low level impact**

**Level 2 – some awareness and use of STEM activities**

**Level 3 – widespread knowledge and use of STEM activities**

**Level 4 – whole school approach to supporting STEM activities**

