

| Activities Explained            |  |
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| Activity                        | Explanation  |
| Airport Challenge               | The aim of this activity is to research and highlight disabled facilities for disabled people in Terminal 4 Heathrow Airport, drawing the facilities onto plans, producing an accurate tender submission and presenting recommendations and the solution to a panel of professionals.  |
| Build a House                   | Within teams of 8 or 9, students split themselves into three working groups according to personal strengths. They will research, plan and budget for the development and building of a new house including all planning permission, legal fees labour and building costs. The teams will present their idea to the groups.   |
| Building a Future               | Practical activities, talks and site visits will be taking place at the University to highlight professional and management careers in the construction industry. Your role will be to assist with the activities and deliver a short talk on your profession.   |
| Careers Convention              | Ambassadors' required to talk to interested students and parents about their role in construction and distribute careers literature.   |
| Careers Events/ Evenings/ Fairs | A range of careers events run or supported by SETPOINTS in schools and other venues throughout the year. Ambassadors can give a presentation or answer questions so that pupils can guess their job.   |
| Change the Face of Construction | To highlight professional and management careers in the construction industry we will once again be hosting our girls sixth from conference. Students will have the opportunity to meet with professionals from industry, attend a site visit and access information on construction related degrees and sponsorship programmes. For this event I am particularly looking for female Ambassadors who would be happy to talk to small groups of students about their profession. I am also looking for suitable sites that can accommodate a short visit from the students. During the 'market place', I would like companies to come along and bring a career stand and talk directly to students about the organisation they work for, and the possible training opportunities. |
| Civil Engineering Day           | Ambassadors' required to work with students through a series of engineering challenges offering advice and guidance, you will also be asked to deliver a short talk on your profession.  |
| Design & Build your own Eden    | Within teams of 4 to 5 students choose and design a layout for a visitor centre similar to the Eden Project. They have to design and build a structure that focuses on environmental and or community benefits. They can introduce different business or activities to the project.  |

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| Engineering in the Workplace                         | A Civil Engineer is required to take part in a sixth form engineering day at Nottingham University. The aim of the event is to raise awareness of engineering and encourage students to consider a career in this field. You will be required to talk to small groups of students about your role and if possible, come up with a short interactive exercise that the students can take part in (no longer than 20 mins). Each speaker will be requested to deliver their presentations four times on the day.  |
| Enlightened Engineering Events                       | To promote engineering to young people in schools (12-13 years). The aim of the events is to give pupils a taste of different types of engineering, to show the variety of work engineers do. Volunteers are required to provide and run a series of hands on activities throughout the day (approx 45 minute sessions, 4 per day, starting at 10.00am finishing at 2.30pm). The subject can be any type of engineering.  |
| Eye on the Coast                                     | Students work in teams of 5-6 to build a large scale model of the London Eye and plan and present their idea's for a future event at the attraction which will include planning, team and project management, target audience and costing. Students may chose time allowing to include other innovations.   |
| Inter Schools Airport Challenge                      | A housing development has been proposed on greenbelt land in a small village. Following an introduction to the local planning system, students will be required to prepare a case on behalf of one of the interest groups who are either for or against the development. Students will present their arguments to the consultation panel and based on their submissions, a decision will be made on whether the development should go ahead. Your role will be to work with the students offering advice as they form their argument and to sit on the panel. All training will be given on the day |
| Inter Schools Design Competiton                      | In teams of between 2 and 6, students will be given the challenge of desgning a sports stadium in their school grounds with a selection of finalists presenting their designs during Narional Science and Engineering Week , March 2008. Ambassadors will be required to act as mentors to these teams.   |
| Inter Schools Planning Challenge                     | A housing development has been proposed on greenbelt land in a small village. Following an introduction to the local planning system, students will be required to prepare a case on behalf of one of the interest groups who are either for or against the development. Students will present their arguments to the consultation panel and based on their submissions, a decision will be made on whether the development should go ahead.  |
| K'Nex Challenges and Young Engineers K'nex Challenge | Primary pupils work in groups to design and build using K'Nex. Challenges include bridges, towers, cars and fairground rides. SETPOINTS run challenges at various times of the year and run the Young Engineers K'Nex Challenge in Spring/Summer of each year. Ambassadors can support by introducing the challenge, helping the groups and judging the final designs.  |
| Lego Tower Challenge                                 | Children are tasked with building the tallest tower then can within the allocated time. They must aim to use as few bricks as possible, maximising the "profit" of their construction.  |
| Millenium Wheel                                      | Students work in teams of 5-6 to build a large scale model of the London Eye and plan and present their idea's for a future event at the attraction which will include planning, team and project management, target audience and costing. Students may chose time allowing to include other innovation   |

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| Renovate                              | Children construct a model of a scaled 3D model and design a draft plan of a floor area in a renovated building  |
| Subject Talks                         | Can be delivered in a school at any time of year or as part of programme of activities organised by SETPOINTS for National Construction Week in October.   |
| Technology/Engineering Challenge Days | A range of activities run or supported by SETPOINTS in primary and secondary schools throughout the year. Many of the challenges are construction-related such as designing and building towers.   |
| Tetrahedron Challenge                 | Challenge for primary and secondary pupils to construct a 4m tall tetrahedron using dowel and elastic bands.   |
| What's My Line                        | A fast paced activity in which small groups of students have to guess your profession by asking a series of questions. The exercise is repeated several times during the morning – time will be given at the end of each session to talk more about your job role. |
| Young Engineers Clubs                 | Ambassadors can support clubs being run in schools by teachers. May be occasional input or regular support.  |

**Last Updated:** 2nd November 2007

\*If activities have been scheduled, see the Activity Diary for when and where you can attend. If an event has not been scheduled and you would be interested taking part in the activity, please contact your Regional Education Coordinator.

\*\* If there is no organiser for an event and you would be interested taking part in the activity, please contact your Regional Education Coordinator