

## Maths

The activities used in the programme were adapted from the create maths project 'Getting there' activities. The activity sheets and teachers notes for the 'Getting there' activity are included in this folder. For further information about the project and guidance on how to access the resources please refer to the link below.

### Key messages

When engaging students with STEM subject choice and careers relating to maths we must

- develop and capture the students' interest and imagination in maths by using stimulating everyday contexts
- and through them enable students to develop an appreciation
  - that maths is really useful and is used in many different work places and careers
  - that maths-based jobs are really exciting, satisfying and rewarding
  - that mathematicians use the skills they are developing (both mathematical skills and personal capabilities)
  - that mathematicians work in multidisciplinary teams
  - that there are so many different jobs in mathematics
  - that mathematicians make a significant contribution to society
  - of the subjects and qualifications required to do that job.

As teachers we also need to be aware of equality and diversity issues (these will be addressed in the programme eight in this series and the associated guidance pack)

### Teaching hints

- You could involve a logistics manager in introducing and facilitating the classroom activity or as was done in the programme ask a couple of students to deliver the newspapers to students in the class as a starter activity.
- Run the activities as suggested in the teachers notes which accompany the 'Getting there' activity sheets. You could use a rope as in the programme to give students a hands on experience.
- Follow up the logistics activities by using the videos on the Maths Careers website to enable the students to further explore the applications of maths in a range of different careers and workplaces. Use the activity sheets included in the folder for the students to access the videos on the Maths Careers website. Give different groups a different video to watch. Each group should then produce a PowerPoint presentation. You may find that your internet connection is slow and that you may want to download the videos onto computers before the lesson.

## ● Maths

### Useful links

#### Cre8ate maths

<http://cre8atemaths.cseprojects.org>

cre8ate maths is an exciting new maths project which takes as its starting point the key employment sectors of Yorkshire and Humberside. The maths education resources developed for the project use stimulating and motivating contexts that aim to engage and motivate pupils. The key characteristics of all the resources are that they link current mathematical thinking with real world applications. Why not take a look then download and use the materials as they come on line.

#### Maths Careers

<http://www.mathscareers.org.uk>

The Maths Careers website provides a wide range of very valuable resources for maths teachers and careers guidance materials including the videos used in the programme which were produced by the More Maths Grads project. For further information please go to the website.

#### STEM subject choice and careers

[stemcareers@shu.ac.uk](mailto:stemcareers@shu.ac.uk)

The STEM subject choice and careers project was set up to signpost advice, guidance and resources from a wide range of bodies. The project will also be producing a range of resources for students, teachers IAG professionals and employers in a rolling programme up to 2011.