

MEET THE STEM PROFESSIONAL

Teacher's sheet

From engineers to medical physicists and from cancer researchers to accountants, STEM Ambassadors come in all shapes and sizes. This activity gives your class a chance to find out about a variety of careers. After a presentation students can ask questions and complete a short activity linked to your visitor's career. This truly hands-on career session will allow your students to have a go for themselves.

Before

It is important that you have clear objectives for this activity. What do you want your students to get out of this experience? Do you have a specific field of STEM that will be more appropriate or just a general STEM session? Let the STEM Centre team know your requirements as far in advance of your proposed date as possible. Use the checklist to prepare for the day.

During

STEM Ambassadors are professionals working within, or with an interest in, the fields of STEM; they are not generally teachers. Therefore it is important that the activity is facilitated by at least one teacher and that the classroom management issues are undertaken by that member of staff.

After

Consider some follow-up activities in class or a return visit by one of the STEM Ambassadors to take part in another activity. Tell us how the activity went by filling in an evaluation form or sending us an email.

CHECKLIST

Please ensure that you take the following steps when arranging your visit from a STEM Ambassador:

- ☐ Contact us to request the visit at least six weeks before the event
- ☐ Correspond directly with the STEM Ambassador(s) to clarify arrangements and requirements
- ☐ Inform and gain approval from senior staff for the visit
- ☐ Ensure that at least one member of staff is available to facilitate the activity (depending on the number of students involved)
- ☐ Book the room and set up (if necessary)
- ☐ Inform school reception that visitors will be arriving and ensure they know where to direct them
- ☐ Register with STEMNetworking to blog about your activity

NOTES

Age range: KS3–KS5

Duration: One hour/lesson or half a day

Capacity: Min one class, max – dependent on space and Ambassadors available

Themes: STEM, Careers, PSHE

Preparation time: ⌚ ⌚

Resources required: Classroom space, tables and chairs, audio-visual equipment



MEET THE STEM PROFESSIONAL

Ambassador's sheet

This activity gives the young people a chance to find out more about your career or area of study. You will give a short presentation about your career/study, pathways you took to get there, etc. Students will then take part in a simple hands-on activity related to your work, area of STEM or skills needed, ending the session with questions about your career or studies.

Before

Plan out your introduction and presentation – this should be engaging, concise, relevant and importantly, should inspire the class to consider a similar path. If possible, gather some props that link to the area of your work. Lastly, plan your hands-on activity that will get the class moving physically and mentally! Let the STEM Centre team know about your activity as far in advance as possible. Use the checklist to prepare for the day.

During

Start the session with a short talk or presentation; use props if you have them. Engage the students in your activity: explain what they are going to do, check they understand. After completing the activity, ask for any questions they might still have. You will be supported by at least one teacher who is responsible for room and behaviour management.

After

Review how it went, including teacher feedback in your assessment, and amend the activity as necessary. You will have an activity that can be taken into other schools. Consider organising a return visit to the school to take part in another activity. Tell us how it went by completing an evaluation form or emailing us.

CHECKLIST

- ☐ Correspond with the teacher directly to clarify arrangements and requirements
- ☐ Check the school address and plan how to get there
- ☐ STEM Ambassador pin badge, ID card and DBS form ready to take with you

AMBASSADOR TIPS AND IDEAS

- Bring some props as visual aids if you can
- Contact the STEM Centre for hands-on activity ideas if needed
- Gather together resources for the hands-on activity



NOTES

Age range: 11–18

Duration: One hour/or lesson or could be repeated throughout the day or half day

Capacity: Min 30 students, max – dependent on space

Schools: One

Preparation time:  

You will need: Presentation, props, hands-on activity