

STEM Ambassadors Information Session

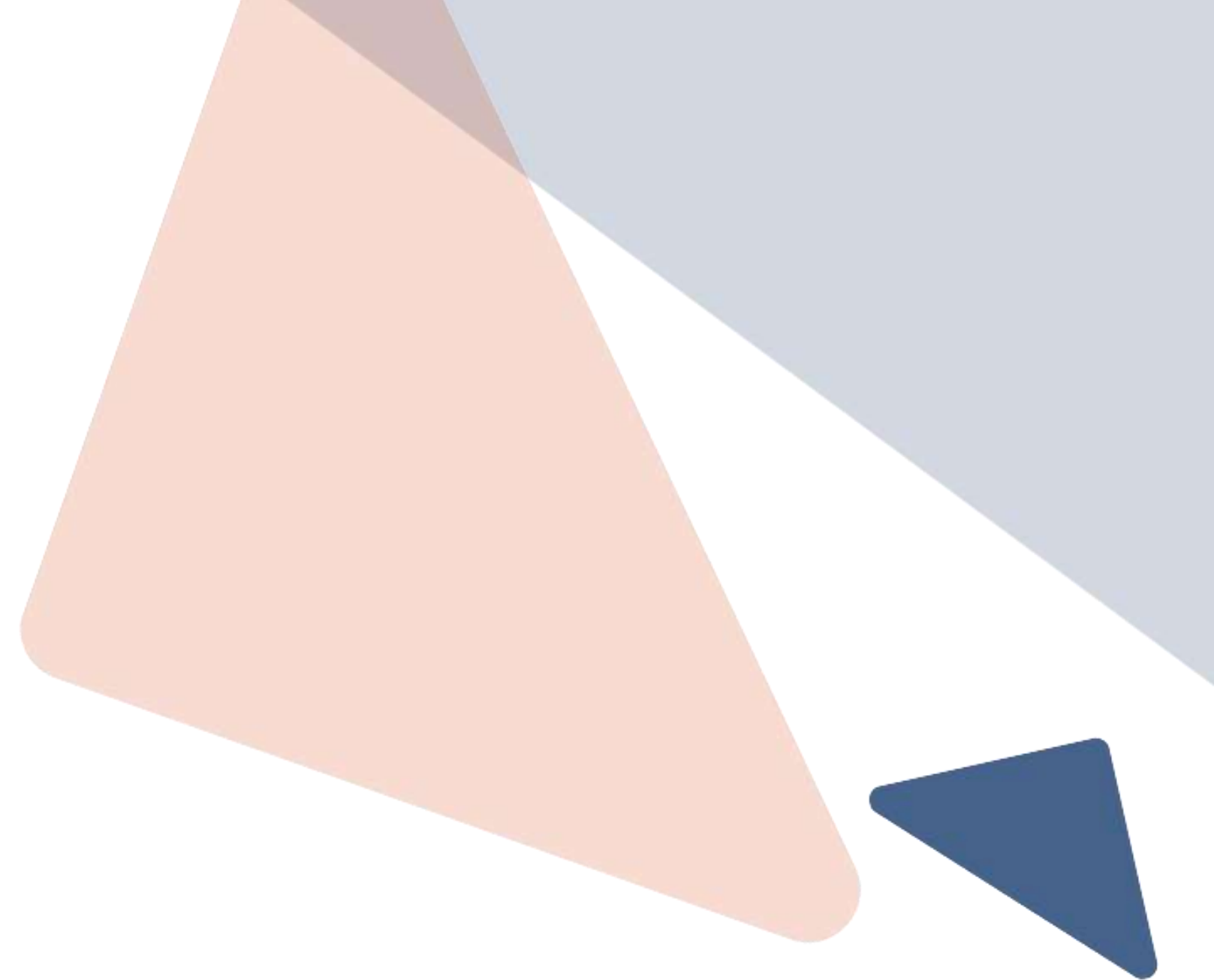
NHS Education for Scotland - STEM Engagement

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Plan

- Overview
- Benefits and opportunities
- STEM Activities
- How to become a STEM Ambassador
- Communications






Building Science Capital

Who helped you get where you are today?

Overview

- STEM Ambassadors are volunteers with a passion for STEM
- Desire to inspire and share experiences with young people

A photograph of two young women, one of Asian descent and one of African descent, looking at a laptop screen. The image is overlaid with a blue circular graphic containing text. The background is a light blue gradient with a dark blue triangle in the top left and an orange triangle in the bottom left.

"The government is committed to ensuring the UK remains at the edge of science, research and innovation. The STEM Ambassadors programme is an important part of our efforts to increase the supply of people with STEM skills in the economy."
BEIS, 2016

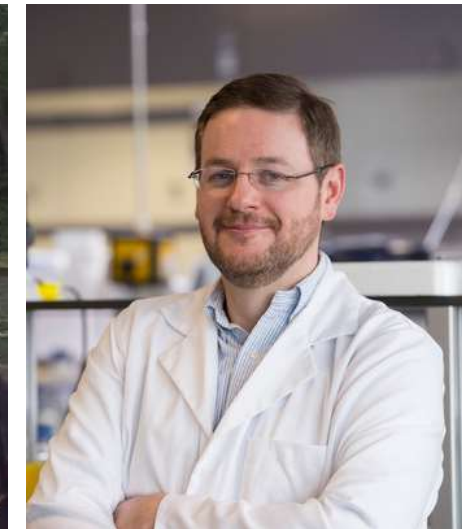
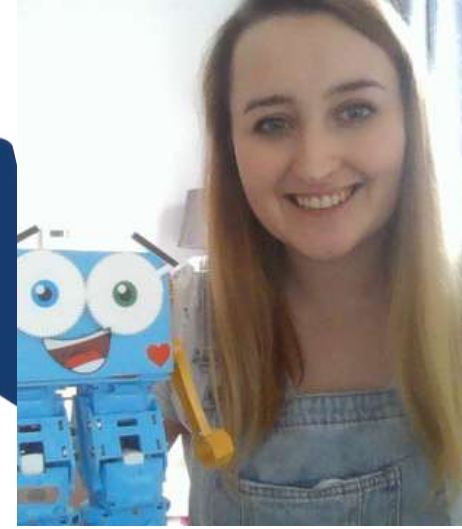
STEM Learning



- UK wide programme
- Managed by STEM Learning
- Different hub regions managed by different organisations
- In Scotland, the Programme is managed by SSERC

Why become a STEM Ambassador?

- Improve your skills: communication, presentation, leadership etc.
- Have fun
- Give back to your local community
- Gain access to resources and training
- Share your experiences and interests
- Become a role model
- Become part of a UK wide network
- Include on your CV or in your professional development





What could you do?

- Ambassadors volunteer in lots of different ways
- Online and/or in-person
- Working with one school or group/working with lots of different schools and groups
- Topic and/or employability focused
- Working directly with teachers or leaders



Workshops



Talks



Demonstrations



Site visits



Projects



Mentoring



Resource Creation



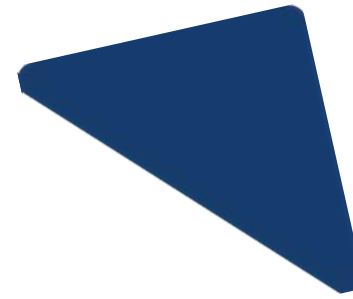
Competitions



How do we support you?

- Regular training opportunities
 - Mentoring, project, resources, communication etc.
- Hub organised events
 - Maths Week, British Science Week, Book Week etc.
- Projects
 - National Numeracy Champions, STEM is for everyone Champions etc.
- Advice and support
- Resources

Resources



- STEM Ambassadors in Scotland online resource library
- STEM Learning resource library – including STEM Clubs and ESERO



Audience

- Educators/Leaders (20)
- STEM Ambassador (17)
- 9-12 (16)
- 7-9 (14)
- 11-13 (13)
- 13-15 (10)
- 5-7 (10)
- 16+ (6)
- Under 5 (5)

Resource type

- Online (18)
- Physical (14)

Topic

- Maths (23)
- Technology (17)
- Science (16)
- Information (15)
- Computing (12)
- Engineering (12)
- Careers (11)
- Physics (10)
- Biology (9)
- Space (9)
- Chemistry (8)
- Environmental (7)

Resource Hub

The screenshot displays a 'Resource Hub' with six resource cards arranged in a 2x3 grid. Each card features a representative image, a title, a brief description, and a 'View resource' button.

- BBC Micro:Bit Classroom Pack:** The micro:bit makes it easy to have immediate success with coding. It's great for simple, tangible introductions to digital and computing technologies.
- SSERC Primary Maths Kits:** Resources and lesson plans for fun early and first level maths activities.
- Fun Maths Roadshow:** The FunMaths Roadshow is a collection of 350 mathematical activities suitable for use with school pupils, college students, and university undergraduates.
- Marty the Robot:** Teach coding with this simple, easy to use and robust humanoid robot.
- VEX GO Classroom Bundle:** VEX GO is a STEM construction system that uses the VEX IQ plastic construction system and adapts it for the younger student.
- Explore Our World:** 3 challenges designed by SSERC Biology - for Biology and Environmental Science students.

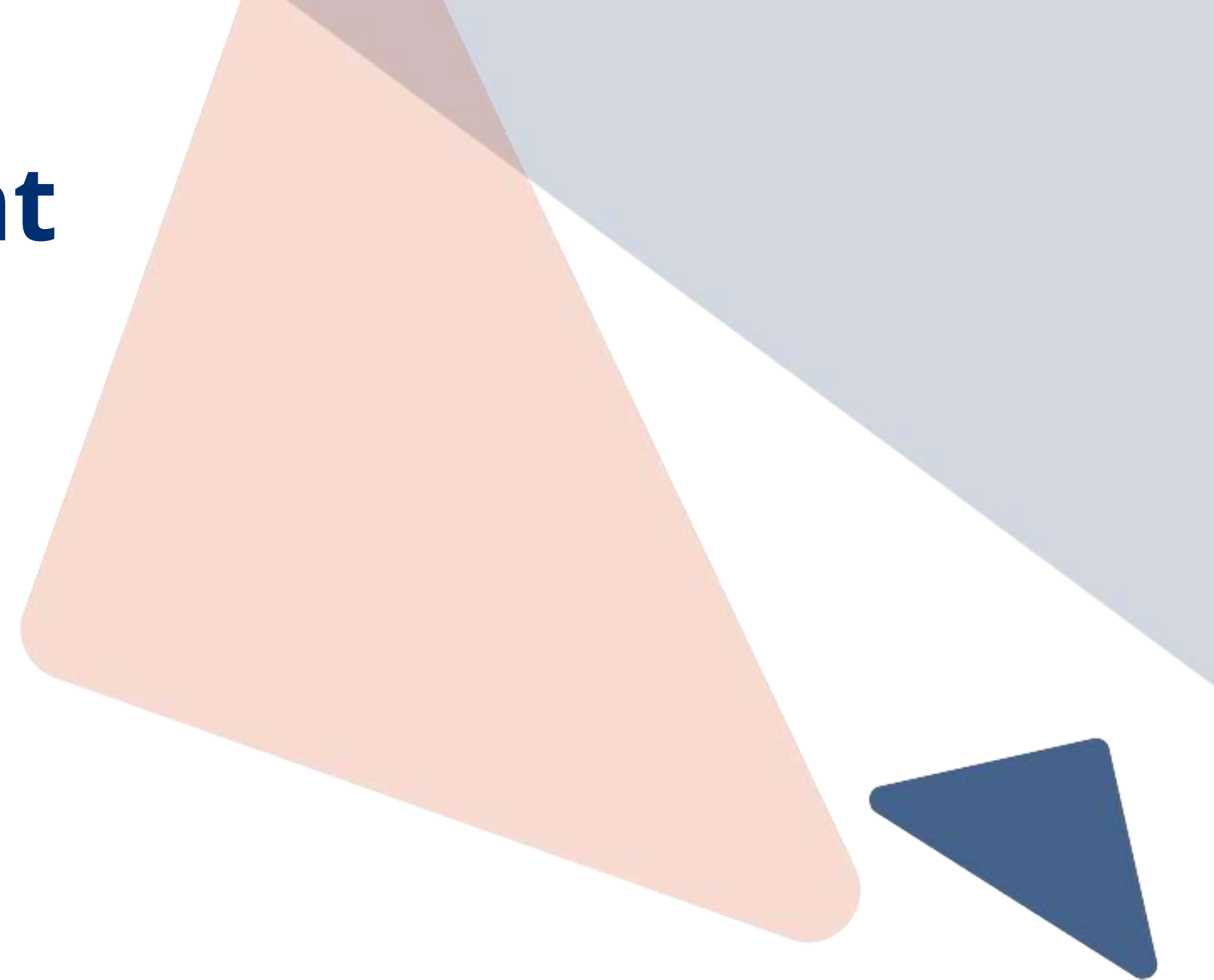
Tips for your own engagement

- Planning
 - What, where, who, why?
 - What is available to you? IT access/restrictions
- Communication with the teacher/leader is key
- Checklist and guidance available on the SAIS Resource Hub

<https://resources.stemambassadors.scot/resources/stem-ambassadors-guide/>

Tips for your own engagement

- Think about hooks you can use
 - Humour
 - Surprising facts
 - A challenge for the audience
- It's okay for you not to know all the answers - involve the learners in the process
- Speak to the teacher for advice on forming groups or getting volunteers



Steps to becoming a STEM Ambassador

- 1 Create your profile on the website, www.stem.org.uk
- 2 Complete the online induction
- 3 Complete your PVG application, including ID check video call
- 4 Start volunteering for STEM activities!

Contact



Keep up to date on our news by creating a profile at www.stem.org.uk and ticking the newsletter box



stemambassadors@sserc.scot



stemambassadors.scot



Registering

<https://www.stem.org.uk/user/register>

Register as a new STEM Ambassador





Introduce yourself



**Explain what a scientist does to a 5
year old**

Explain what tax is to a 15 year old



Introduce yourself again

Tips for your own engagement

- What words did you use?
- Which words did you replace?
- Was there anything difficult to describe?

