



Email for North Yorkshire Council schools

Your invitation to take part in the SAMHE project and secure up to £3000 for your school.

We are looking for school that meet certain criteria* to take part in SAMHE, an exciting citizen science project.

What is SAMHE?

[SAMHE](#) (pronounced 'Sammy'!) (Schools' Air quality Monitoring for Health and Education) is a citizen science project which brings together scientists, pupils and teachers across the UK. Poor air quality impacts pupils' health and attention levels, so it is important it is monitored and understood.

Schools will receive a free SAMHE monitor and access to the specially designed [SAMHE Web App](#) which enables teachers and pupils to view and investigate data on classroom air quality. A local STEM Ambassador will support your school to deliver the project and to apply for a grant from [The Royal Society](#) to further your STEM activities (towards the end of the project). This is a grant of up to **£3000** for your school!

The App also offers a range of curriculum-linked activities and experiments using the data from their classroom, creating opportunities for pupils to be scientists and do hands-on experiments.

Curriculum links:

- Data logging, KS2 Science
- Areas and Volume, KS2 Mathematics
- Earth and Atmosphere, KS3 and 4 Science/ Geography
- Influencing Change, KS3 and 4 Citizenship
- Health, disease and the development of medicines: Communicable diseases, KS4 Biology
- Working with large datasets, KS5 (A-level) Mathematics/Statistics



Who are we?

[STEM learning](#) has a goal as an organisation to improve lives through STEM education. STEM education is part of everything we do. Whether that's delivering teacher CPD (continuing professional development) in STEM subjects, bringing STEM role models into schools as part of the STEM Ambassador Programme or providing bespoke, long-term support for groups of schools in collaboration with companies through our ENTHUSE Partnerships.

For this project our STEM Ambassador Programme is partnering with the [SAMHE team](#). This project will run from now until September 2025.

How we're working together

In partnership with SAMHE, we've developed a series of activities for our STEM Ambassadors to work through with participating schools, from helping pupils understand key air quality concepts, to using the Web App to build skills in interpreting and analysing data, and supporting pupils to design their own experiments using the monitors and explore their own ideas. The project will culminate in pupils sharing their findings through a variety of different formats, providing opportunities to practise persuasive writing and presentation skills.

The project is split into sessions which can be delivered flexibly, with the timings to be agreed between each school and the ambassador they are paired with - the project might be concentrated in one term or spread over a longer period of time; that's up to you. It could be delivered during curriculum time or as a STEM Club; again completely up to you!

Schools will receive a free air quality monitor and web app, plus the support of a STEM Ambassador to carry out the project over the coming school year. In addition, your school will be supported to apply for your own Royal Society Partnership Grant to support the continuation of this project, or further STEM Activities in the future.

How to take part?

Please register for SAMHE if your school is interested in taking part:

<https://samhe.org.uk/register-plus> and you will receive your free monitor, web app and be introduced to a local STEM Ambassador to support your school if your school meets the criteria *.



Hurry! Our first CPD session, Getting Started with SAMHE, takes place online on **14th November 2024 4-5pm**. Please follow this link to join the meeting and find out more:

Meeting link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_OWnkMDdhYmQtOTRiNS00NjUxLTgxNjAtYTUzNjc1Y2MwMzAx%40thread.v2/0?context=%7b%22id%22%3a%2219a5c4f0-4bf7-4d48-a81b-1666b9ae4bf5%22%2c%22oid%22%3a%22cfcce430-8531-4321-b1c9-2a5b4f0e6077%22%7d

This session will be recorded and available in the SAMHE schools group (see below) if you are not able to attend.

We have more dates for your diary:

30th January 2025 4-5pm How is your project going? Shared learning (link tbc)

27th February 2025 4.30- 5pm- Royal Society Grants refresher- with Elizabeth Chambers (link tbc)

27th March 2025 4- 5pm- Writing a successful grant bid with your school- (link tbc)

12th June 2025 4- 5pm- Celebration Event as we near the end of the project extension (link tbc)

Curious and want to know more?

We have a SAMHE community group where you can ask questions, access resources and watch recordings of CPD sessions. Register your school with STEM Learning to join: <https://community.stem.org.uk/communities/community-home?communitykey=4f7d22c2-ac03-4462-ac4b-018ee67057b8>

Any questions? Please contact c.walford-price@stem.org.uk

Looking forward to hearing from you,

STEM Learning

Improving lives through
STEM education

stem.org.uk/giving-20



*Criteria: Schools must not have received a Royal Society Partnership Grant in the past 2 years plus one of the following:

- Schools must be located within an Educational Investment Area
- Schools must have low levels of CPD engagement recorded in the STEM learning database
- Schools must also have a higher than average proportion of pupils in receipt of free school meals
- Schools must be located in an area within [IMD](#) deciles 1-4