



Full STEM Ahead

The newsletter of the RAiSE Team Issue 4 January 2018

Check out the [Full STEM Ahead](#) site

Support and inspiration at a click of your mouse!

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Save the Date

[Big Garden Bird Watch](#)—27-29 Jan 2018

[Safer Internet Day](#)—6 Feb 2018

[Careers Hive](#)—26 Feb – 3 Mar 2018

[British Science Week](#)— 9 – 18 Mar 2018—Theme: 'Discovery and Exploration'. Activity packs: available from January

CPD Coming Soon

The RAiSE Team will be offering a range of twilight training sessions in terms 3 and 4 on the following themes:

- ◇ Craft, Design & Technology—Model Making
- ◇ Construction & Engineering with Kapla Blocks
- ◇ Animation with Serif Draw Plus
- ◇ Getting started with Serif Software
- ◇ Using Sway
- ◇ Science in the Classroom—Hydraulics & Pneumatics
- ◇ Science in the Classroom—Friction
- ◇ Science in the Classroom—Inheritance
- ◇ Carbon Dioxide Chemistry in the Primary School
- ◇ Introduction to Barefoot CAS
- ◇ Good vibrations—exploring sound
- ◇ Using Micro:bits Across the Curriculum
- ◇ Introduction to Visual Programming Languages
- ◇ Introduction to Text Programming Languages
- ◇ Try Before You Buy - Robots
- ◇ Outdoor Learning in STEM
- ◇ Introduction to Raspberry Pi

Each course will be offered across each of the 4 areas of the Authority, so there should be one near you. Dates and venues will be on the CPD directory early term 3. Join our Yammer group or speak to your school's STEM Contact to make sure you don't miss out. (Not sure who your STEM Contact is? Please ask your HT. And if you're school doesn't have one yet, why not consider volunteering?!)

What's New Online

This month we have added links to the following pages to the Full STEM Ahead website:

Funding: [Sea Changers](#); [Royal Society of Chemistry Outreach Fund](#);

Cyber Resilience & Safety: [Parent Info \(Digital\)](#);
Developing the Young Workforce: [Future Morph](#);
[Tomorrow's Engineers](#);

Science: [Fun Kids Weekly Science Podcasts](#);

D&G Risk Assessments: [StudyLadder](#)

Social Networking & Websites: [Yammer Article](#)



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As Featured on Yammer

Join our Yammer group, [D&G Full STEM Ahead](#), and find out more about:

- ◇ Canadian Science Scholarship Programme for pupils planning to study life-sciences at a Scottish university.
- ◇ Edinburgh Science Festival's Careers Hive
- ◇ New research into sexual harassment of young people on the internet
- ◇ Interesting ways of using Yammer with upper primary pupils
- ◇ This year's Dumfries and Galloway Science Festival
- ◇ Battery safety
- ◇ Teaching maths through coding with Tynker

Safer Internet Day 2018

FREE resources are now available for SID 2018. These include engaging lesson plans, activities, and films tailored for 3-7s, 7-11s, 11-14s, 14-18s and for parents and carers. They are also very excited to announce that everyone's favourite puppets, Red and Murphy are back again for SID TV! Access the education packs here: <https://www.saferinternet.org.uk/safer-internet-day/2018/education-packs>



Safer Internet Day

Students with low science capital who do not express STEM-related aspirations at age 10 are unlikely to develop STEM aspirations as they get older. Efforts to broaden students' aspirations, particularly in relation to STEM, need to begin in primary school.

ASPIRES - Young people's science and career aspirations, age 10-14 : Department of Education & Professional Studies, Kings College London

Up for a Challenge?

The CyberFirst Girls competition is back for 2018. Teams of up to 4 girls in S2 can register on the site from 16th Jan 2018, so start to put your teams together now. The online competition opens on 29th Jan and closes 5th Feb 2018. The Grand Final in Manchester is on the 18/19th March 2018 (help is available with costs incurred)

Posters and competition rules can be downloaded from the site: <https://www.cyberfirst.ncsc.gov.uk/girlscompetition/>

Join
cyber
first.

Free Stuff

DIY store B&Q operates a community re-use scheme through all its branches across the UK? The scheme donates unsellable products and materials for re-use by local schools, other educational institutions and community groups, for the benefit of the local community and the environment. All items are donated on the understanding that they will be re-used or disposed of responsibly if they aren't used. Our closest ones are Carlisle and Ayr, but it might be worth contacting other local DIY stores to see if they operate a similar scheme.

Syringes are great for all sorts of science and engineering experiments (watch out for CLPL courses on Hydraulics and Pneumatics coming early 2018). Sterile syringes used by medical professionals have a use by date on them, after which they often get thrown away. Why not contact your local surgery or hospital and ask if they would perhaps throw them in your direction.

Citizen Science Opportunity

Take a look at this exciting opportunity to contribute to real world research into the high incidence of COPD in our region. Your pupils can get involved by gathering data about air quality around their school, with links to maths and H&WB as well as science. Get further information here: [BREATH flyer](#)



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