



Full STEM Ahead

The newsletter of the D&G RAiSE Team Issue 11 April 2019

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

Support and inspiration at a click of your mouse!

Click here for the printer friendly version of our newsletter



The Conference Edition

All the news about what's planned and how to get involved.

How to Register

Registration is now open. Use the link below to book your place and select the workshops you would like to attend:

<https://bit.ly/2Okr3oH>

Get Involved

There are a number of ways you can get involved with this year's conference.

As a delegate—get the most out of the conference by attending the whole day—sign up using the link above.

As a showcase school—don't be shy! We'd love it if you could bring some of your pupils along in the afternoon to share their STEM learning. No formal presentation required; just a chance to chat to colleagues and share some ideas. Many schools are already signed up and you can be one of them - contact Carol at gw08moyescarol@ea.dumgal.sch.uk for more info or register at:

<https://bit.ly/2YJLSi0>

As a QR school— we know it isn't always easy to get time out of school, or to get to Dumfries, but we want the Conference to inspire schools across the region, so why not be part of our QR trail! Check out the article below.

As a twilight drop-in—this year the Market Place, and some school showcases, will be open until 5.00 pm. Our Market Place organisations have been specially invited because of the excellent support they can provide to schools. If you can't get away during the day, pop in after school—who knows what connections you might make!

Where and When

The 2nd D & G STEM Conference will be held at

The Bridge, Dumfries

on

Friday 26 April 2019

What's In Store

- 09:00-09:30 Registration, Coffee and Marketplace
- 09:30-09:40 Welcome
- 09:40-10:10 Keynote 1 - *Ian Menzies, Senior Education Officer, Education Scotland*
- 10:10-10:50 Workshop 1
- 10:50-11.20 Coffee and Marketplace
- 11:20-12:00 Workshop 2
- 12:00-12:30 Keynote 2 - *George Milliken, Digital Development Officer, Education Scotland*
- 12:30-13:40 Lunch and Marketplace (**NB Lunch will not be provided**)
- 13:40-14:10 Keynote 3 - *Alison McLaughlin, UK Director, The Wood Foundation*
- 14:10-15:00 Schools' Showcase
- 15:00-15:30 Keynote 4 - *Helen Winton, Head of STEM Engagement, SSERC*
- 15:30 Conference Close
- 15:30-17:00 Marketplace will remain open

The Market Place

Our Market Place is going to be even bigger and better this year, with more partner organisations joining us and **staying open until 5.00 pm.**

All these organisations have been specially invited because we know they can provide expertise and resources to practitioners—often for FREE!

Make sure you take time during the day, or afterschool to chat to them. You never know what connections you might make.

Workshops

This year you will be able to select two workshops delivered by a wide range of organisations who can support your in delivering STEM. Indicate your choices when you register at:

<https://bit.ly/2Okr3oH>

Many provide support and resources for FREE, so click on their logos below to find out more about who they are and what they might be able to do for you.

Our Friends in STEM

This year we are pleased to be supported by an extensive range of organisations - either through involvement in Workshops or the Market Place.

Each of these organisations has the potential to provide inspirational opportunities for you and your pupils. Click their logos to find out more about them.

They're looking forward to meeting you!

RAiSE

Raising Aspirations in Science Education

**Dumfries & Galloway
College**



DYW

**DUMFRIES
& GALLOWAY**
Developing the
Young Workforce



**Keep Scotland
Beautiful**



Primary Engineer Programmes
...the first step®



**Early
Years
Scotland**
Investing in our youngest children



**CRAWICK
MULTIVERSE**

**Solway Firth
Partnership**

**education
guru**

sserc

**STEM
AMBASSADORS**

**Education
Scotland**
Foghlam Alba
STEM and Gender Teams



ice
Institution of Civil Engineers

SCOTTISH SPCA
Scotland's Animal Welfare Charity

SRUC

DUMFRIES HOUSE
Education

IOP
Institute of Physics

DG SCHOOLS' ICT

ICT Information, support and resources for Education Staff

QR Trail

This year we are trying something new at the Conference—a QR Trail.

QR codes are blocks that can be scanned by a QR reader app (there are lots that are free to download for your phone or tablet). Try the one opposite and see where it takes you.

We want to have QR codes displayed throughout the building that when scanned will take you to content showcasing a useful resources, or good practice going on in one of our schools. (We might even throw in a few fun ones too!)

If you are unable to participate in the Schools' Showcase but would still like to share some of the STEM work you've been doing lately, then why not be part of the QR Trail?

It's really simple to get involved:

Step 1

Decide what you want to share then create a Word document or PowerPoint with lots of photos and some text to explain the context—why not ask your pupils to do this? It can be as long or as short as you want. And, don't worry about formatting the text or slides—that will come later. *(Although it would help if you could proof read it!)*

Step 2

Either, convert the document/PowerPoint into a Sway



yourself (check out our Yammer group for a how-to-video) and email me the link .

Or, email me your file and I'll convert it into a Sway for you.

Step 3

I will then generate and print a QR code to be shared during the conference. After the conference, we will also share the codes via Yammer.

It really is easy, although if you have any questions just contact Carol on 07990 888929 or at gw08moyescarol@ea.dumgal.sch.uk

And in other news ...

As featured on Yammer

We hope you are finding our weekly round ups helpful, but have you also spotted the following on Yammer?

Updates from: Education Endowment Foundation; Dronesafe;

Opportunities from: Education Scotland's Improving Gender Balance and Equalities Team; Google Code Week funding; THE RAISE TEAM—have we mentioned we have a conference coming up?!; Dippy the Dinosaur; Food for Thought funding; Cyber Scotland Week; Education Scotland to become a Digital Leader for your school or cluster;

Challenges and competitions from: National Digital Learning Week; Woman in Engineering essay competition; RHET;

FREE Resources from: Data Gif Maker; We are Teachers (celebrate Pi); Thingiverse;

Missed it?! You can still catch up; just search the group to find old posts quickly.



Our Easter Present to You

No it's not a chocolate egg and we can't really claim it's from us, but we will be pleased to be delivering Mobislyders to all schools over the course of April.

Dumfries and Galloway were able to obtain a number of complimentary Mobislyders thanks to a partnership between Education Scotland and the Glidetrack Mobislyder company.

The Glidetrack Mobislyder is a compact, highly portable slider that holds a small camcorder, iPhone or other smartphone, DSLR or point-and-shoot camera to capture dynamic video with smooth, subtle motion.

The device can be used to enhance the effects of videos which are produced in class for projects, in conjunction with the use of digital software to edit and modify. Relating to TCH -01a.

To get a feel for what it can do you can watch a introductory video here:

<https://youtu.be/U5lwZH8SAsU>

CPD coming soon

It is now no longer possible to book via CPD Solutions.

If you had previously booked a place on a course, you don't need to book again.

If you have not yet booked a place, but would like to, please email DirectorateSupport@dumgal.gov.uk giving the name and date of the course you would like to attend. If you would like further information about any of these course please contact the RAiSE Team.

- 29 Apr 19 - Chemical Changes and Carbon Dioxide - Glenluce PS
- 30 Apr 19 - Chemical Changes and Carbon Dioxide - Castle Douglas PS
- 30 Apr 19 - Technology to Enhance Literacy - Gretna PS
- 1 May 19 - Technology to Enhance Literacy - Kirkcudbright PS
- 1 May 19 - Chemical Changes and Carbon Dioxide - Lochmaben PS
- 1 May 19—Microsoft Teams—Annan Academy
- 2 May 19 - Chemical Changes and Carbon Dioxide - The Bridge, Dumfries
- 2 May 19—Microsoft Forms—Lockerbie Academy
- 7 May 19 - Technology to Enhance Literacy - Rephad PS
- 8 May 19 - Technology to Enhance Literacy - Closeburn PS
- 13 May 19 - Assessing STEM - The Bridge, Dumfries
- 13 May 19—Microsoft OneDrive—Wallace Hall Academy
- 14 May 19 - Assessing STEM - Lockerbie PS
- 14 May 19—Microsoft OneNote Class Notebook—Moffat Academy
- 16 May 19—Microsoft OneDrive—St Joseph's College
- 21 May 19 - Assessing STEM - Glenluce PS
- 22 May 19 - Assessing STEM - Castle Douglas PS
- 28 May 19—Microsoft OneNote Class Notebook—Lockerbie Academy
- 29 May 19—Microsoft Teams—St Joseph's College
- 30 May 19—Microsoft Teams—Wallace Hall Academy
- 10 Jun 19—Microsoft Forms—Moffat Academy
- 11 Jun 19—Microsoft OneNote Class Notebook—St Joseph's College
- 12 Jun 19—Microsoft Forms—Wallace Hall Academy

School Showcase

Dalbeattie



The P1 class have been learning not only about making healthy food choices, but also how to prepare food safely. Some nice examples of 'crab' and 'bridge' finger positions. With those knife skills, I think we have some chefs in the making.

Gretna



P6 are taking part in the Primary Engineer project. Shellene Boyd says: 'We have created the axes and fitted wheels. Now lots of conversations about measure, 3d shape and design. Our boxes were courtesy of the lovely ladies at the Hotter shoe shop in Gretna Gateway.'

Kirkcolm, Leswalt & Portpartrick

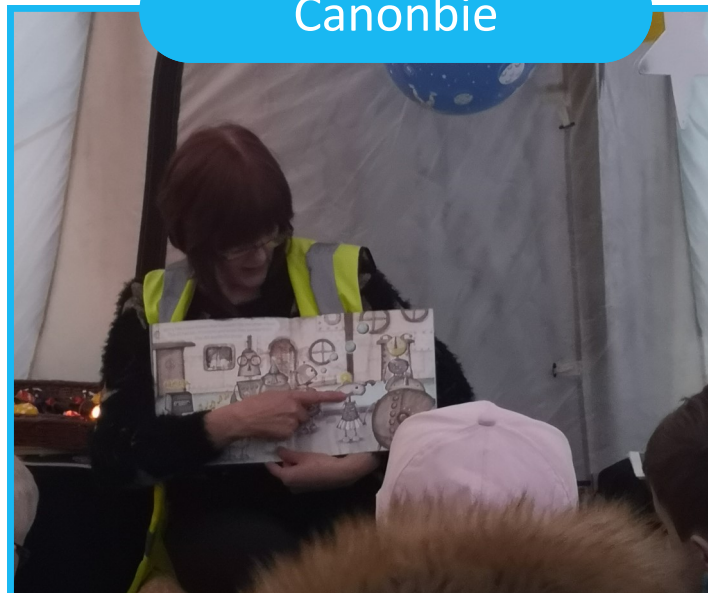


A trio partnership science morning was the order of the day at Portpatrick Primary during British Science Week. Pupils and family from their P4 – 7 classes came together to participate in a wide range of STEM based activities.

The showpiece of the event was a mobile planetarium provided by the Galloway Forest Astronomical Society. Pupils were taken on a journey through the planets and moons of our Milky Way, learning fascinating facts on our travels. P1-3 were also treated to a session as an added bonus. This resource had been kindly funded by the Kilgallioch Community Fund and is being made available to schools within our region.

When not in the planetarium, the pupils were given a carousel of hands-on challenges to select from; ranging from electrical circuits to tower construction and from pin the organ on the body to parachute making. For example, they had to design an electrical circuit that would sound an alarm in the event of a flood. Our little engineers didn't let us down and were up to the challenges of all the problems presented to them.

Canonbie



Fantastic evening for pupils and parents at Canonbie Primary. They had organised a family Astronomy Evening but there was much more than just star gazing available. TWELVE different space themed activities were enjoyed including a storytelling telling workshop by a former NASA scientist, now bookshop owner. A great favourite was the VR workshop which featured projections of the universe onto a transparent dome. If you think this is something you'd like to do in your school, Carol Wilson will be at the Schools Showcase at our STEM conference this month sharing more details about the event.

Gretna



Shellene Boyd has shared her class's first foray into Makedo. Design brief: make a structure tall enough and wide enough for Mr MacDowall to stand in.

Are you running an afterschool club, have entered a competition or just have some great STEM curricular work? Have it showcased in the Full STEM Ahead newsletter.

Don't be shy! If you have a piece of work or activity you would like us to share with fellow practitioners across Dumfries and Galloway, then send a photograph and short description (no more than 150 words) to gw08moyescarol@ea.dumgal.sch.uk and look out for yourself in next month's issue! Even better, upload it to our Yammer group.

Gretna



Not to be outdone, P3/4 have also been making use of the Makedo resource. Craig Dolderson says: 'Great as a construction activity for free play during 'Privilege Time' on a Friday afternoon too. Was a fantastic way to end the week with my new P3/4 class! Many thanks for sharing this resource idea Carol Moyes!

Portpatrick

[https://
bit.ly/2UbBRvm](https://bit.ly/2UbBRvm)

A very motivated P4 pupil interpreted a WWII class project in a refreshing way at Portpatrick Primary. The young lady enlisted the help of family members to create a podcast from 'around the world' to test WWII facts knowledge. Use the link above to have a listen and enjoy the clever use of digital technology.

Nethermill & Johnstonebridge



The P1-4 classes at Nethermill and Johnstonebridge had a shared learning day where they spent time in their forest classroom then carried out some STEM activities in the afternoon. They designed tin foil boats, made shapes with cocktail sticks and marshmallows, carried out Lego challenges and did the cola and Mentos investigation. A fun day was had by all!

Penninghame



Full stem ahead in p1/2. Sketchup, Duplo and making cakes from sand!

Contact
US

Karen Creighton gw08creightonkaren@ea.dumgal.sch.uk
Carol Moyes gw08moyescarol@ea.dumgal.sch.uk

