

# STEM Nation Award

### Ian Stewart – Development Officer (STEM Nation Award)



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STEM Nation Award



The STEM Nation Award and the Young STEM Leader Award Programmes have been developed with support and funding from the Scottish Government.

The STEM Nation Award Programme provides a focus for colleagues across a setting to work collegiately to identify, celebrate, promote and develop excellent STEM learning.







# **Benefits**

The STEM Nation Award Programme addresses the key aims of the STEM Strategy for Scotland, to deliver Excellence, Equity, Inspiration and Connection in STEM education and training.

The structure of the Programme provides opportunities which allow settings to address many key priorities within the STEM context, including

- Closing attainment gap
- Closing equity gap
- Social Justice
- Gender balance
- GIRFEC

- Learning for Sustainability
- Green Skills
- STEM Skills
- UNCRC





## The five elements

• For CLD settings, optionality built into **STEM learning in the community** element – CLD applicants can focus on adult learning, family learning or youth work.



- Five key elements evidence can be used across multiple elements
- Three year window to submit evidence



Employability and STEM partnerships

### Leadership in STEM

STEM family learning / **STEM** learning in the community



Curriculum and learner pathways



Equity and equality in **STEM** 

# **Programme Process**

- Register and carry out self-evaluation
- Complete setting profile

STEM Nation Award

Evidence

Applicant details

. 5339537

· Angus Council

Monifieth High School

. Angela Barclay

. 20 November 2019

Education Scotland

- Collate and submit evidence using PowerPoint template
- For full award Action Plan and Validation Conversation

secondary schools in Angus, and has educated generations of pupils from Angus and Dundee since first opening its doors in 1976. We currently have around ton

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where pupils can achieve, reer sale a secure with mutual respect in our wider community

https://www.monifiethhighschool.com/

signposted in all our correspondence and presentations We work hard to make the school environment a place where public correspondence feel cofe & each work

We work hard to make the school environment a place where pupils can achieve, feel safe & secure and work

Community and these are nearing and vontinuing and mesentations.

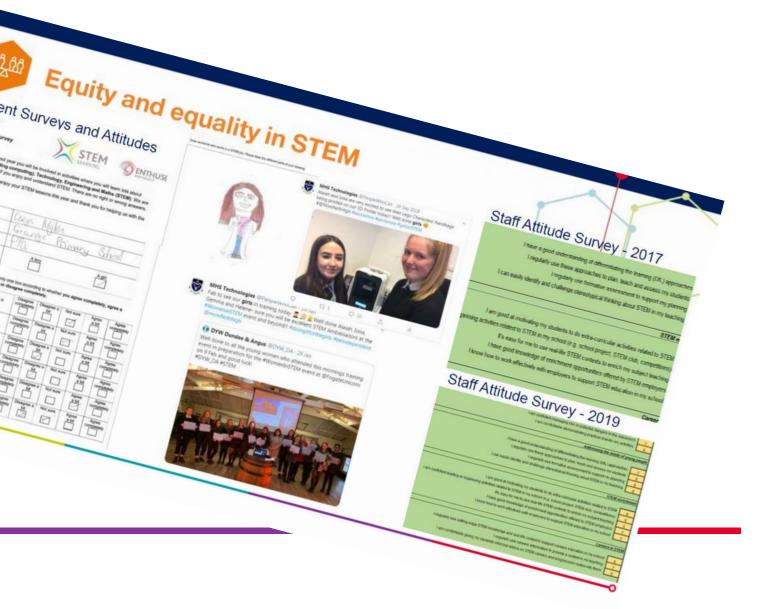
STEM

Nation

Monifieth High School is one of eight com

Setting profile





# **Employability and STEM partnership working**

#### OLM Primary School @OLM\_Primary - Mar 5 Thanks to Cait and the team from @CuanTec w

Thanks to Cait and the team from @CuanTec who have been showing P3 how they produce food packaging from food waste. #OLMSTEM #ERCSTEM #zerowastescotland



Q1 13 0 10

#### OLM Primary School @OLM\_Primary - Mar 4

P6 were joined by Team Proto today, engineering students from Strathclyde University, for a Primary Engineers workshop. Many thanks also to Claire from Atkins, an aeronautical engineer who was interviewed by P5 #OLMSTEM #ERCSTEM #LA2019





OLM Primary School @OLM\_Primary · Mar 14 Thank you to Mr McDonald, chemical engineer @PetroineosGM for inspiring P6 pupils into STEM #olmSTEM #ercSTEM #bsw19



Q 13 02



OLM Primary School @OLM\_Primary · Mar 14 Our K'NEX semi-final is underway, lots of planning, designing and construc going on in the STEM Room just now. Many thanks to Mr Henderson for ju our contest this afternoon @BAMRitchies @GlasgowSciFest #OLMSTEM #ERCSTEM







Q 1 1 3 0 4

#### OLM Primary School @OLM\_Primary · Feb 14

STEM: Primary 4 enjoyed their engineering workshop today with Joe from Network Rail. They learned about civil engineering and projects that Network Rail have been involved in. P5 & 6 then got the chance to interview him as part of their Leaders Award #OLMSTEM #ERCSTEM #LA2019



Q 11 03

### Our Lady of the Missions Primary School



Our community outreach groups regularly visit a neighbouring residential care home and engage in activities with the elderly residents.

STEM activities are often a focus for these visits, with learners engaging in construction challenges with resources such as Lego, Kapla and K'Nex. Pupils have also taught residents to use creative apps on iPads.





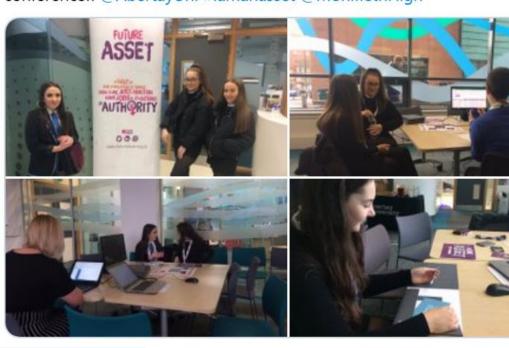
### Pitteuchar East Primary School

# Equity and equality in STEM

V



MHS Technologies @PeopleWhoCan · 12 Nov Alaiah, Sinead, Iona, Katie and Jasmine representing us at Future Asset conference!! @AbertayUni #iamanasset @MonifiethHigh



MHS Technologies @PeopleWhoCan · 23 Sep All very excited for the Future Asset Conference in Glasgow tor ur eves peeled for the next opportunity in November... ••



MHS Technologies @PeopleWhoCan · 14 Dec 2018 V Girls in STEM @dundee\_angus Thanks for a brilliant morning! @MonifiethHigh @CarHighTech #engineeringforall #engineeringourfuture #skillsforlife



### Monifieth High School

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#### Promoting Gender Balance Working Group

#### Meeting 13/11/2019

Present:

Laura Anderson (PT Heart), Shannon Murray (Art & Desian), Neil Tilston (PT Assessment & Maths Teacher), Craig Davies (Social Subjects), Angela Barclay (PT Technologies/DYW).

Apologies:

Janice Murray (Maths), Gillian Savory (English), Debbie McArtney (Maths), Alison Low (PT Modern Languages/DofE), Germain Julien (Modern Languages)

#### Agenda & Minutes

#### 1. Reflections

Staff shared individual reflections on their areas. AB collated group response on Ed Scot paperwork.

#### 2. Planning for Moving Forward

It was agreed to gather some hard data:

Numbers of male and female uptake in Senior School subjects.

Numbers of uptake in \$3 subjects to see where the imbalance starts.

Comparison of these numbers with our closest comparator schools. (NT to find this.)

AB to arrange follow-up meeting for group with Heather Earnshaw to analyse this data and develop strategy to trial.

Working group members will also contact colleagues at schools with better gender balance in the subject to look for good practice.

3. IGBE Meets

Craig Davies kindly agreed to represent us at this upcoming event. AB to send minutes and collated responses.

Meeting closed by the bell at 2:10pm







IGBE Meets - Share & Create: Ideas for Improving Gender Balance and Equalities

### IGBE MEETS

IGBE Meets are opportunities for practitioners interested in addressing gender imbalances in participation, curricular preferences and learner pathways, to come together for local network building, idea sharing and collaborative problem solving.

#### TIME AND PLACE

All IGBE Meets will start at 1:30pm and finish at 3:40pm.

Dynamic Earth, Edinburgh, EH8 8AS	12 <sup>th</sup> Nov
The Gordon Schools, Huntly, AB54 4SE	21 <sup>st</sup> Nov
Dundee and Angus College, Dundee, DD5 1NY	21 <sup>st</sup> Nov
St Andrews RC Secondary, Glasgow, G32 6QE	21 <sup>st</sup> Nov
James Young High School, Livingston, EH54 6NE	26 <sup>th</sup> Nov
Oban High School, Oban, PA34 4JB	27 <sup>th</sup> Nov

To book a place, see Eventbrite links on www.bit.lv/NIHIGB



Anyone who is interested in discussing how we approach and engage people in improving gender balance and equalities. This event is aimed at practitioners from schools and ELCs, but we would also welcome interested practitioners from other organisations, including Community, Learning and Development and local authority staff.

Cost: Free to attend

#### FOR MORE INFO.

Email:

Twitter: @EdScotIGBE #IGBE #IGBEmeets

### Who can help?

partners

children and young people

parents and wider community

community learning & development colleagues

### practitioners

RAiSE PSDO / STEM Lead



Regional STEM Education Officer

TA A

STEM Nation network members



# **Support Structures / Opportunities**

**Initial Regional Support: Regional STEM Education Officer** 



**Collegiate Support:** STEM Leads, STEM Networks, RAiSE PSDOs, colleagues, etc.

### **Partners / Supporters :**

STEM Ambassadors, SSERC, Science Centres, The Royal Zoological Society of Scotland, Royal Society of Chemistry, The Royal Society, Colleges, Universities and many more

















### **STEM Nation Network Sessions**



Regular drop in sessions for interested and registered settings.





### **Upcoming STEM Events**



# STEM@educationscotland.gov.scot



**STEM Blog**