



Celebration of STEM



31 May 2019
Glasgow Science Centre

Event Partners:



Contents

Programme.....

Competitors.....

Maps.....

Awards.....

STEM Challenge.....

Acknowledgements.....

WiFi CODE: STEM2019



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Programme

| | |
|---------------------|---|
| 7.00 am - 9.30 am | Registration and set-up |
| 9.30 am - 1.00 pm | School showcases – Atrium/Hive (1 st Floor) pH of Scotland – Hive (1 st Floor) Knots to Watts – Hive (1 st Floor) Propel – Hive (1 st Floor) VEX Robotics – (1 st Floor) Institute of Physics Drop-in – Atrium Explore the Science Centre and My World of Work |
| 9.30 am - 10.30 am | Round 1 of STEM Challenges – Clyde Suite |
| 10.45 am - 11.45 am | Round 2 of STEM Challenges – Clyde Suite |
| 12.00 pm - 1.00 pm | Round 3 of STEM Challenges – Clyde Suite |
| 1.00 pm | Lunch Break |
| 2.00 pm - 2.30 pm | Awards Ceremony – Atrium Hosted by Dr Heather Reid OBE Guest Speaker: Clare Adamson MSP Convenor of the Scottish Parliament's Education and Skills Committee |
| 2.30 pm onwards | Dismantle and Depart |

Competitors

| | Stand Number |
|---|--------------|
| Ae Primary, Dumfries and Galloway Knots to Watt and pH of Scotland | 1 |
| All Saints Secondary, Glasgow Work undertaken by S3 STEM captains and S6 ambassadors who have been working with the younger members of our learning community in nurseries and primary school. Knots to Watts, pH of Scotland and VEX Robotics. | 2 |
| Antonine Primary, Glasgow Island Explorer | 46 |
| Ayr Academy, South Ayrshire Various STEM activities including Fire Extinguisher, Bridge Building, Non-Newtonian Fluids, Lava Lamp, Geodesic Domes, Burning Custard | 4 |
| Bearsden Academy, East Dunbartonshire Go4SET, Engineering Education Scheme and various STEM activities | 5 |
| Braeview Academy, Dundee Greenpower race car and Mate ROV | 6 |
| Braidhurst High, North Lanarkshire VEX EDR and various coding projects | 7 |
| Bridge of Weir Primary, Renfrewshire VEX Robotics | 8 |
| Broomhill Primary School, Glasgow Island Explorer | 47 |
| Canmore Primary, Fife pH of Scotland and an aeronautical project | 9 |
| Carnoustie High, Angus Go4set project - Planning for climate change, Knots to Watts and VEX Robotics | 10 |
| Clerkhill Primary, Aberdeenshire pH of Scotland and various STEM activities | 11 |
| Clydebank High, West Dunbartonshire Propel | Propel |
| Corpus Christi Primary, Glasgow Island Explorers | 48 |
| Dalkeith High School, Midlothian pH of Scotland | 12 |
| Dalmarnock Primary, Glasgow pH of Scotland, My Bottle Garden | 13 |

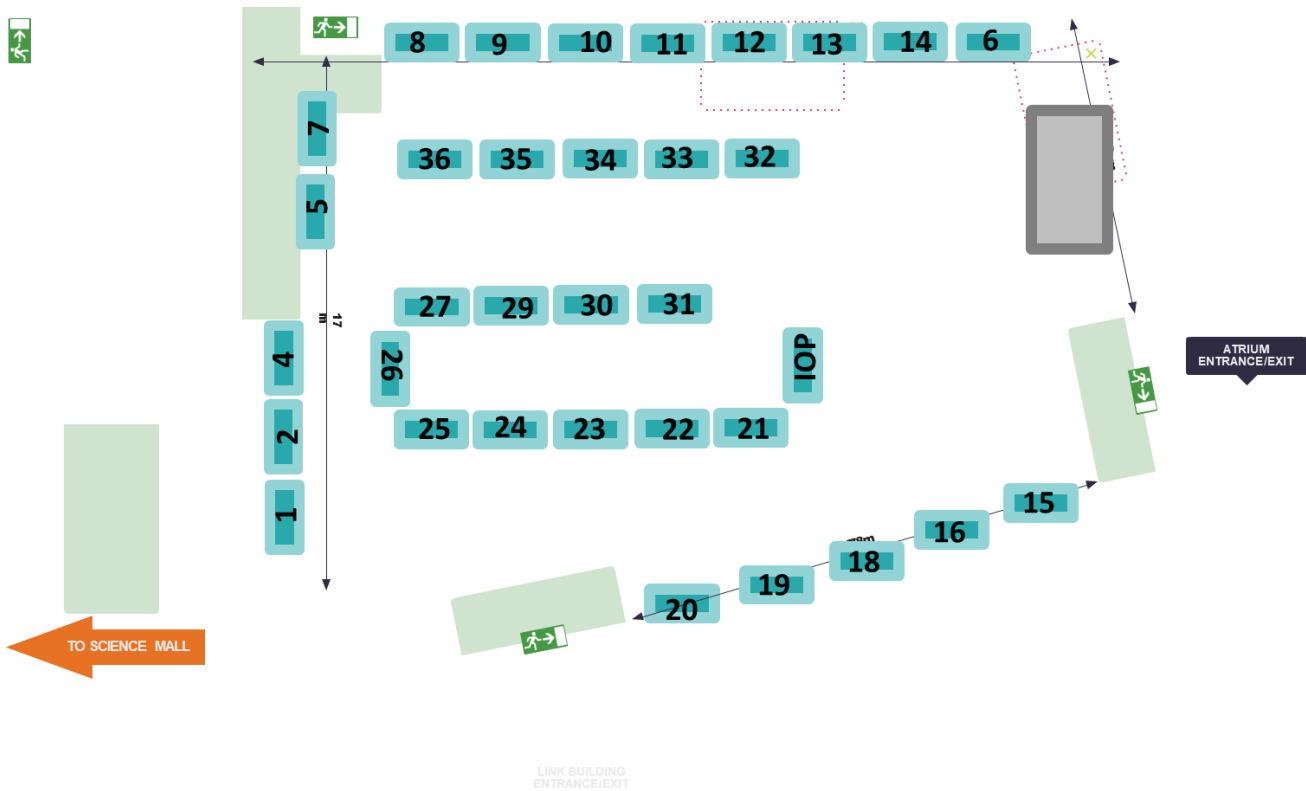
Competitors

| | |
|---|--------|
| Dornoch Academy, Highland Condiment holder for local Golf course and VEX Robotics | 14 |
| Dunbarney Primary, Perth and Kinross VEX Robotics | 15 |
| Duncanrig Secondary, South Lanarkshire Propel | Propel |
| Eassie Primary, Angus pH of Scotland | 16 |
| Edinburgh Academy, Edinburgh Electric go cart and pH of Scotland | 17 |
| Forres Academy, Moray VEX Robotics and Knots to Watts | 18 |
| Garnock Community Campus, North Ayrshire Knots to Watt | 19 |
| Greenwood Academy, North Ayrshire Lego Mindstorms, Lego Wedo, Bloodhound RFTL 2019 and pH of Scotland | 20 |
| Hayshead Primary, Angus VEX IQ curricular journey | 21 |
| Hillpark Secondary, Glasgow Propel | Propel |
| Hyndland Primary, Glasgow Island Explorers | 49 |
| Hyndland Secondary, Glasgow pH of Scotland, Go4SET and other STEM activities | 22 |
| Jedburgh Grammar, Borders Bridge and pH of Scotland | 23 |
| Jimmy Dunnachie Family Learning Centre, Glasgow My Bottle Garden | 24 |
| John Paul Academy, Inverclyde Propel | Propel |
| Kilsyth Academy, North Lanarkshire Scrub up to Science experiment, how to make the biggest bubble and Rube Goldberg machine We will also showcase our Rube Goldberg machine | 26 |
| Kingsland Primary, Borders Various STEM activities | 27 |
| Mearns Primary, East Renfrewshire pH of Scotland, Little Explorers Club, P6 Engineering Club and P7 Science Club | 29 |

Competitors

| | |
|---|---------|
| Mintlaw Academy, Aberdeenshire VEX Robotics, ROV MATE and pH of Scotland | 30 |
| Monifieth High, Angus Rotary Technology Tournament, F1 in School, EEP Robotics Challenge , VEX Robotics, Airgineers and Knots to Watts | 31 |
| Park Mains High, Renfrewshire F1 challenge, 4x4 in schools, Lego league, VEX robotics and STEAM projects | 32 |
| Priorsford Primary, Borders Robot, hover craft and an electric skateboard. | 33 |
| Sgoil Bhreascleit, Western Isles pH of Scotland and how renewable energies can help the community | 34 |
| Sgoil Lionacleit, Western Isles First Lego League, Into Orbit and Rampaging Chariots | 35 |
| Sir E Scott, Western Isles Heather's Hut, Knots to Watts, pH of Scotland and Circuit Training | 36 |
| St Ambrose High, North Lanarkshire Various STEM activities and a hover craft | 37 |
| St Andrew's RC Secondary, Glasgow Various STEM activities, 3D printing models, Jacobs Engineering Challenges, Coding Microbits project and CSI project which gained club members a bronze CREST Award | 38 |
| St Bride's Primary, Highland VEX Robotics and various STEM activities | 39 |
| St Brigid's Primary, Glasgow pH of Scotland | 40 |
| St Ninian's High, East Renfrewshire VEX Robotics and various STEM activities | 42 |
| St Paul's Primary (Whiteinch), Glasgow Island Explorers | 50 |
| The Glasgow Academy, Glasgow pH of Scotland | 44 |
| Thornwood Primary, Glasgow Island Explorers | 51 & 52 |

Schools - Atrium

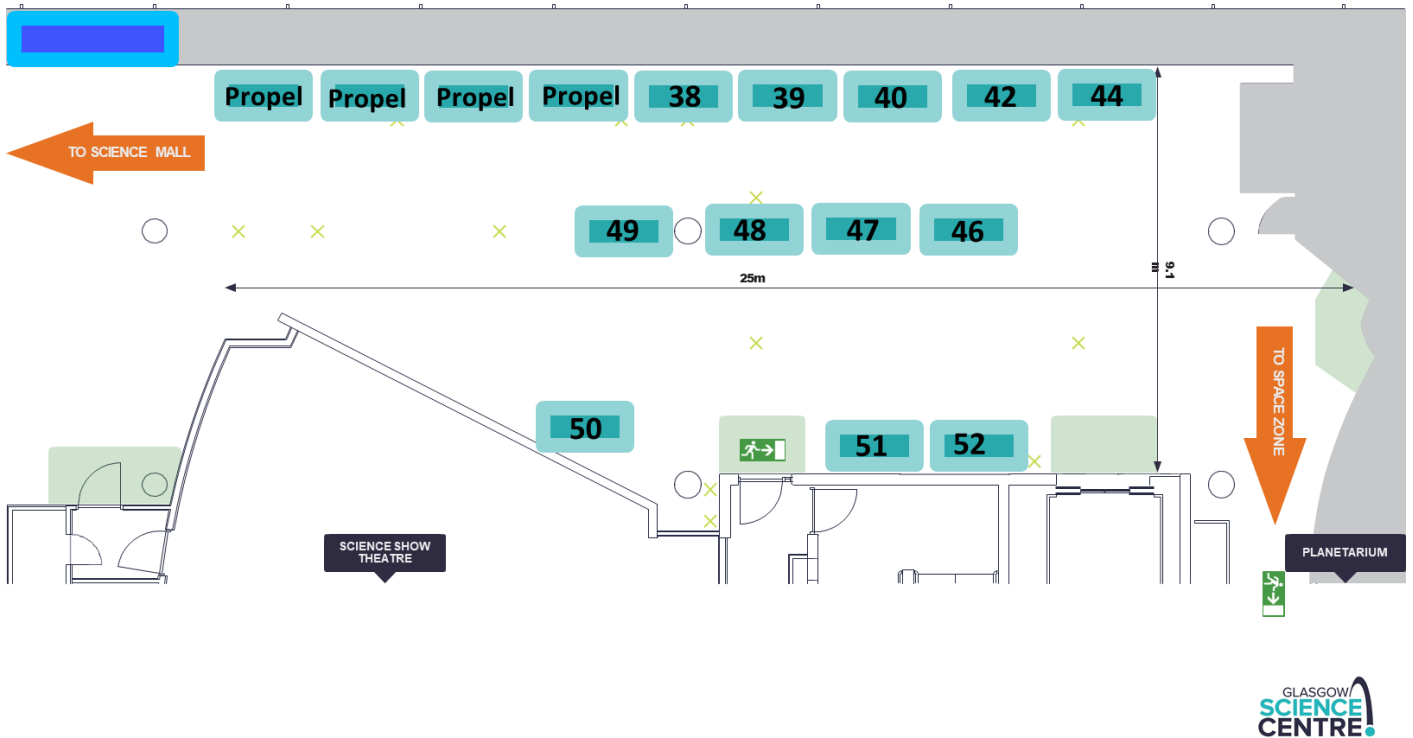


37 17 10

- 1 Ae Primary
- 2 All Saints Secondary
- 4 Ayr Academy
- 5 Bearsden Academy
- 6 Braeview Academy
- 7 Braidhurst High
- 8 Bridge of Weir Primary
- 9 Canmore Primary
- 10 Carnoustie High
- 11 Clerkhill Primary
- 12 Dalkeith High
- 13 Dalmarnock Primary
- 14 Dornoch Academy
- 15 Dunbarney Primary
- 16 Eassie Primary
- 17 Edinburgh Academy
- 18 Forres Academy
- 19 Garnock Community Campus

- 20 Greenwood Academy
- 21 Hayshead Primary
- 22 Hyndland Secondary
- 23 Jedburgh Grammar
- 24 Jimmy Dunnachie Family Learning Centre
- 25 Kilmacolm Primary
- 26 Kilsyth Academy
- 27 Kingsland Primary
- 29 Mearns Primary
- 30 Mintlaw Academy
- 31 Monifieth High
- 32 Park Mains High
- 33 Priorsford Primary
- 34 Sgoil Bhreascleit
- 35 Sgoil Lionacleit
- 36 Sir E Scott
- 37 St Ambrose High

Schools - Hive



- 38 St Andrew's RC Secondary
- 39 St Bride's Primary
- 40 St Brigid's Primary
- 41 St Margaret's High
- 42 St Ninian's High
- 44 The Glasgow Academy
- 46 Antonine Primary
- 47 Broomhill Primary
- 48 Corpus Christi Primary

- 49 Hyndland Primary
- 50 St Paul's Primary (Whiteinch)
- 51 Thornwood Primary (P5/6)
- 52 Thornwood Primary (P6)
- Propel
 - Clydebank High
 - John Paul Academy
 - Duncanrig Secondary
 - Hillpark Secondary

Awards Ceremony

STEM Challenge Award, with thanks to companies listed overleaf

| | |
|------------------|-----------------|
| Primary Winner | £100 and trophy |
| Secondary Winner | £100 and trophy |

pH of Scotland, in partnership with Royal Society of Chemistry

| | |
|------------------|-----------------|
| Primary Winner | £100 and trophy |
| Secondary Winner | £100 and trophy |

Knots to Watts, in partnership with Crown Estate Scotland, Equinor and IOPS

| | |
|------------------|-----------------|
| Primary Winner | £250 and trophy |
| Secondary Winner | £250 and trophy |

Little Engineers Award

Special prize

Island Explorers, in partnership with University of Strathclyde Centre for Environmental Law and Governance

| | |
|--------|------|
| Winner | £100 |
|--------|------|

Propel, in partnership with BAE Systems

| | |
|--------|------------------------------|
| Winner | Amazon voucher and trophy |
|--------|------------------------------|

Robots Skills, in partnership with VEX Robotics

| | |
|--------|--------|
| Winner | trophy |
|--------|--------|

Newcomer Award

£150 and trophy

Big Bang Competition Award

Place at UK Finals

| | |
|-----------------------------------|-----------------|
| Club of the Year Primary | £250 and trophy |
| Club of the Year Secondary | £250 and trophy |

STEM Challenge



CityFibre



STORY



THALES

UNIVERSITY OF THE
WEST of SCOTLAND
UWS

Acknowledgements

We would like to thank the many people and organisations who have made this event possible including our event partners, STEM Challenge partners, judging panels, and all competing schools.

Event Partners:

Big Bang
Chevron
Lloyd's Register EMEA
OPITO
SHELL U.K. Limited

Judges:

Stuart Aitkenhead, Babcock International Group
Mark Armstrong, Young Enterprise Scotland
Giovanni Battista Picotti, Equinor
Deepi Bhardwaj, BAE Systems
Craig Burnett, Shell
Dominic Burrows, BAE Systems
Sergeant Alan D Cameron, Armed Forces Careers Office Edinburgh
Lawrence Cowley, Lloyd's Register
Mark Dames, BT Scotland
Jo Dempster, Dumfries House
Bridie Gaynor, VEX Robotics
Arran Goodchild, EngineeringUK
Colin Gunn, BAE Systems
Aileen Hamilton, Science Connects

Erin Hunter, Falck Group
Amy Lawrence, EngineeringUK
Benjie Marwick Johnstone, SCDI
Mhairi McCann, Young Scientists Journal
Mark McKean, Crown Estate Scotland
Paul McKnight, VEX Robotics
Alex McLaughlin, Glasgow City Council
Stephen Milner, Total
Kate Mingo, OPITO
Amelia Perry, Engineering UK
Jo Pitt, University of Strathclyde
Graeme Quinn, Wood
Paul Ransom, BAE Systems
Dr Heather Reid OBE
Fransesco Sindico, University of Strathclyde
Tasha Wood Wakefield, Story Contracting Ltd

STEM Challenges:

Aberdeen Science Centre
BP
BT Scotland
City Fibre
Dumfries House
Glasgow Science Centre
Highlands and Islands Airports Limited
Incremental Group
Lloyd's Register EMEA

Rolls-Royce
SCDI
Scottish Maritime Museum
Scottish Power
Story Contracting
TAQA
Thales
University of the West of Scotland

Event Supporters:

Institute of Physics, Physics Busking
VEX Robotics

LEAD PARTNERS



PRINCIPAL PARTNERS



ASSOCIATE PARTNERS



For further information on Young Engineers & Science Clubs Scotland visit

www.scdi.org.uk/yesc/ or contact

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