



## News Update

Welcome back to a new term, school year and our second e-update of “Global News” for registered members of the Global STEM Awards. We hope that you have enjoyed a relaxing summer?

It's been a busy summer at UK STEM HQ including an office move! We now have a new address for Global STEM Awards and UK STEM Ltd – our new address is UK STEM Ltd, Innovation Centre, Innovation Way, Heslington, York, YO10 5DG. We are now sited next door to a range of STEM businesses including the National STEM Learning Centre at the University of York – exciting times! Look out for mailings soon to be released on some free twilight CPD workshops we will be offering here in York.



## STEM Without Borders – Cambodia Expedition 2019

At the end of June a group of 17 students and 4 members of staff from Hornsea Sixth Form and Withernsea Sixth Form returned to Cambodia to undertake some volunteering work. This year over a busy two-week visit the students had the opportunity to help in the classrooms at two schools teaching English and also helped with two construction projects in a remote village north of the city. Many of the villages in Cambodia still have very little access to sanitation and water services, therefore this year, students helped to complete a water pump well to provide a clean water supply to 6 homes in Svay Chanto village. They also constructed a toilet for one family in Prasat village and painted and reformed 2 classrooms at the village school.

STEM Without Borders is a registered charity supported by UK STEM Ltd where 10% of Global STEM Award income is used to support global projects where needed. The Cambodia Expedition was supported through STEM Without Borders to help purchase some of the resources needed with either the education aspect or the construction projects. For further information on the projects in Cambodia please visit <https://www.myhappyvillagecambodia.org/news/hornsea-and-withernsea-school-visit-and-projects-2019/>.



## **'Maker-Fest' Summer Camps at the University of Hull**

Our summer holiday camps have been great fun this year and a total of 32 Global STEM Award Bronze Certificates have been achieved. Bronze award projects included Carnival Buggies, Space Rockets, Submarines, Mars Rovers and even a Magic Carpet!



### **Congratulations...**

To North Cave Primary School pupils, in Hull who have embarked on their bronze Global STEM Awards this term and we are very excited to be working with Engineering UTC North Lincs in Scunthorpe who are delivering the Global STEM Awards to all their Year 9 students over the next academic year.

### **New Scientist 'Live' Show – 10-13 Oct 2019**

Come and visit stand 151 at "the world's greatest Science festival" in London next month as we launch the Conservation and Explorer Global STEM Award pathways. We'll be joining the 120+ stands exhibiting this year with Redfern Electronics, showcasing the latest technologies, research and bespoke interactive experiences that are changing the world we live in today. New Scientist Live is for everyone from the curious to the big thinkers. Whether you're looking for a fun day out – or night - or to advance your own knowledge, New Scientist Live is a show you'll be talking about for months to come.



### **STEM in Azerbaijan**

Cambodia, China, UAE and now we can include Azerbaijan in our global outreach! Mike will be flying out to Baku this month to visit and deliver some staff training at Hedef Liseyi Engineering School. They are keen to learn about our STEM learning activities that they could introduce as part of their curriculum including The Global STEM Awards.



### **Practical Action**

Practical Action are an organisation which aims to help people find solutions to some of the world's toughest problems – made worse by catastrophic climate change and persistent gender inequality. Through the Practical Action website there are a range of inspirational STEM educational activities and resources that focus on global issues including climate change, energy, food security and the Sustainable Development Goals. We are delighted to announce that the Global STEM Awards can now also be linked in with Practical Action educational activities, which means that projects carried out using their resources can contribute towards a Global STEM Award too. See their website here: <https://practicalaction.org/schools>

**Practical  
ACTION**

## What's New?

Watch out for information on our website soon [www.ukstem.uk](http://www.ukstem.uk) for news on our Global STEM Award kits. We have been working with Redfern Electronics in developing packaged kits of resources and equipment to provide everything you need to support a STEM curriculum, deliver projects, and the Global STEM Awards with your students and learners at a very competitive cost.

The Global STEM Award **Conservation Pathway**, launching at the New Scientist Live, is designed to introduce motivated upper KS2/lower KS3 students to how human activities are affecting the natural environment and the wildlife living around them. Our 'bite-sized' resources address both marine and terrestrial ecosystems by guiding students through challenging topics including Marine Conservation Zones, acoustic pollution, habitat fragmentation and biomimicry. We are forging partnerships with like-minded environmental organisations, such as the Yorkshire Wildlife Trust, to take learners on a journey across continents... from Europe, to the South American Neotropics, to the icy desolation of Antarctica. Students following the Conservation Pathway are encouraged to think critically about the role of STEM in conservation and be inspired by exciting, real-world professions.

In addition, to this, the Global STEM Award **Explorer Pathway** is on its way too! This will also be launching at the New Scientist Live and gives opportunity for projects and research in exploration around corners of the globe. This collection of projects challenges students to think outside the box when it comes to development in the harshest and most difficult environments. Projects include building your own evaporation fridge to test in different conditions, designing your own food plan for a polar explorer and even building your own air rockets!

## And Finally...

If you would like to share your GSA news and successes with us to include in the next e-news (December edition), please contact [Sally@ukstem.uk](mailto:Sally@ukstem.uk).

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