## 4.3 Cambridge KIKS Multiplier Schools Events

The Cambridge KIKS event brought together both KIKS team members and others, including teachers from Finland and Spain, and also Spanish students.

The event attracted a wide number of community visitor young and old, STEAM experts and not...during a six-hour open day, which attracted 70 visitors (non KIKS).

The UK Student Presentations featured student experiences on what makes a KIKS project. They presented:

- Constellations and Pointer Stars- Peer to Peer Teaching – A presentation
- Circumpolar stars Peer to Peer Teaching - A Mathematics Workshop



- The Philae Lander Learning By Design How to design and develop your own STEM workshop
- Chaos Theory Presentation and Hands on workshop for the students

This gave an opportunity for teachers, students and others to get to know each other



Then Spanish Students made excellent presentations described elsewhere on

- Dark Camera:
- Memory
- Golden Ratio
- Wireless telegraph
- Led focus







In an event the same day, Linton Village School demonstrated and presented their Wind Tunnel Aerodynamics project - with a demo of their experiments in the wind tunnel. This attracted thirty visitors.



Wind tunnel - Challenge: How can we use micro:bit to accurately control the experiment. See the wind tunnel  $^{\varnothing}$ 

https://youtu.be/nJYhXfWjEjl

The event featured in:

http://www.cambridge-news.co.uk/news/cambridge-news/cambridgeshire-schoolstudents-turn-tables-12776521

## Leading a lesson in science

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A video by the Spanish team can also be seen at: https://youtu.be/FtUws8iEmIw



For their work, the students received CREST Awards. This award is UK-wide and accredits attainment in STEM:



## 4.4 Ipswich KIKS Multiplier School Event

Westbridge Academy has a maximum of 32 students with special educational needs. They received 20 visitors.

The Raedwald Trust Westbridge Academy has created a Chain reaction featuring chemical reactions, robots, Arduino, Micro bit and much more. It is a remarkable creative mix of science, technology, engineering, ART and maths (STEAM), which has to be seen:-). It is clear best practice in demonstrating the collaborative problem solving project approach advocated by PISA (Programme for International Student Assessment) and IB (International Baccalaureate). Their STEAM team developed a remarkable Chain Reaction which can be best seen in the video:

## https://vimeo.com/222487526

However, here are a few stills from the above:



