



<https://openuk.uk/openkidscamp/>



Course sponsored by



In kind glove sponsor



OpenUK glove inspired by



Giveaway sponsored by



NOMINET

## OpenUK New Kids' Camp and Competition 2021 – Community Leaders and Teachers' Guide



### Introduction

The Open UK Camp has been sponsored for a second time by Red Hat and aims to inspire children to learn and use open technology by participating in a 10 lesson course which can be spread as suits the child or if in a group, leader of the group and participants. The lessons are centred on the Open Source Definition, the very heart of open source and the Sustainable Development Goals.

Each lesson is complemented by an ezine (a digital magazine) which includes more learning content with topics like open data, digital inclusion and sustainability. The ezines also include the pdfs of code used in the ezines, to allow the young people to work away from their device.

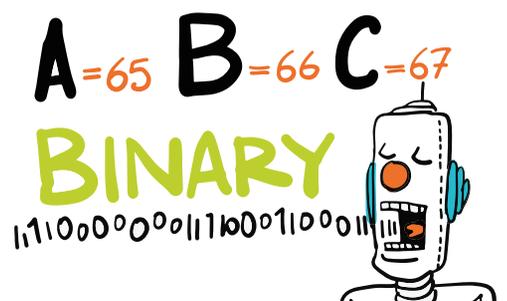
The lessons require the use of a digital glove, such as the MiniMu glove or the OpenUK Digital Glove. Either will work and if you don't have either you can make your own glove using the open sourced MiniMu glove information from MiMu.

The lessons teach digital skills and coding and teach coding Make Code, Python and Java.

The lessons have been aligned to the Key Stage 3 Curriculum.

All gloves require a micro:bit and if you have a micro:bit one you will also need a speaker. Although it is not strictly necessary having a battery pack and of course batteries for that pack makes it easier to do the activities.

OpenUK's first Kids Camp and course create a great introduction and the second course builds on this. It is not strictly necessary to have taken the first course to do the second but unsurprisingly that may be a good order in which to do them.



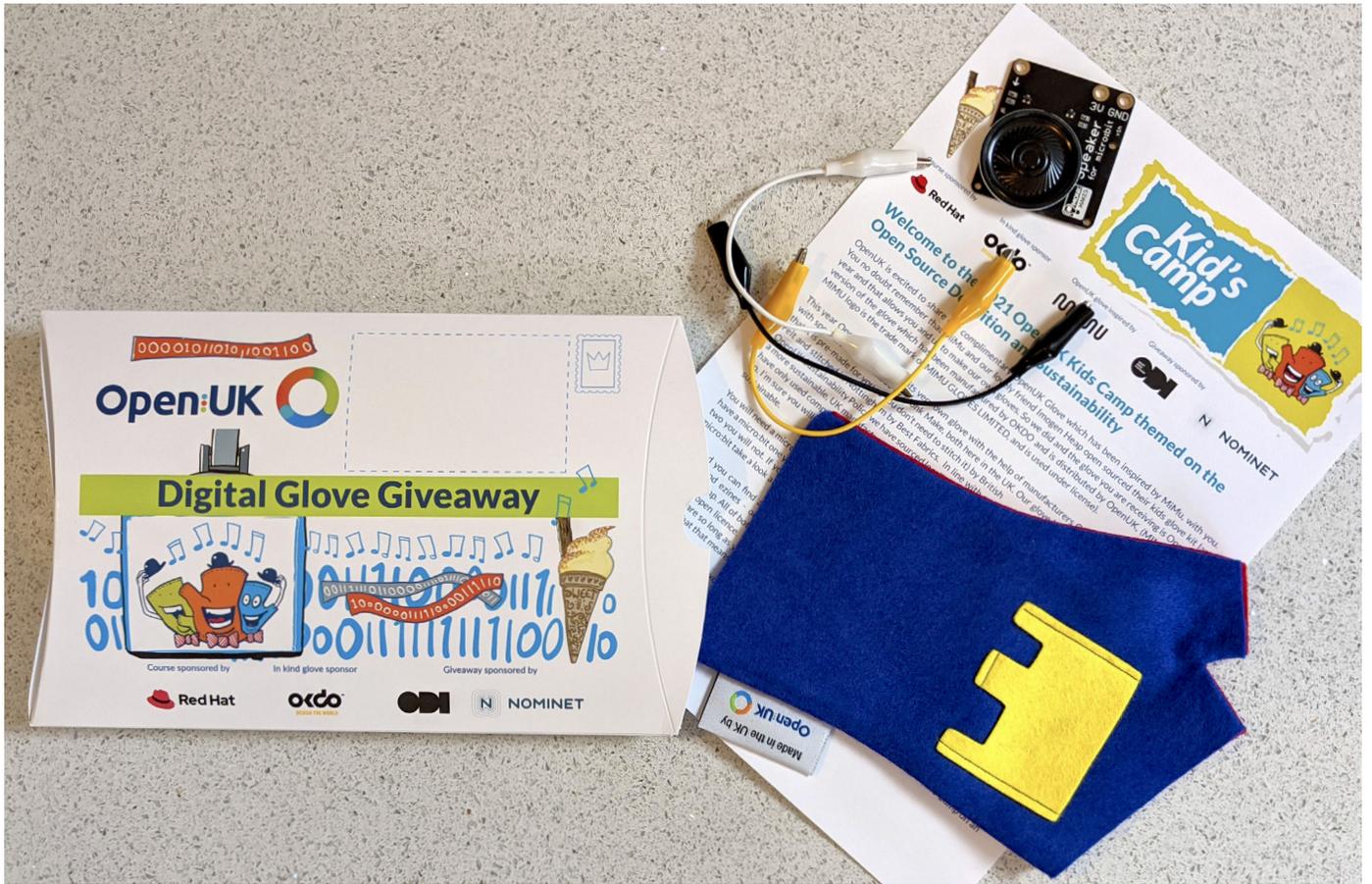
## 2021 Plan and Participation

For 2021, OpenUK have organised the second glove give away takes place in September thanks to the sponsorship of Nominet and the Open Data Institute, and free Gloves will be distributed towards the end of September, with the first content being shared in early October, scheduled for 4 October. Check our website for any updates, [Glove Registration and Camp Details](#).

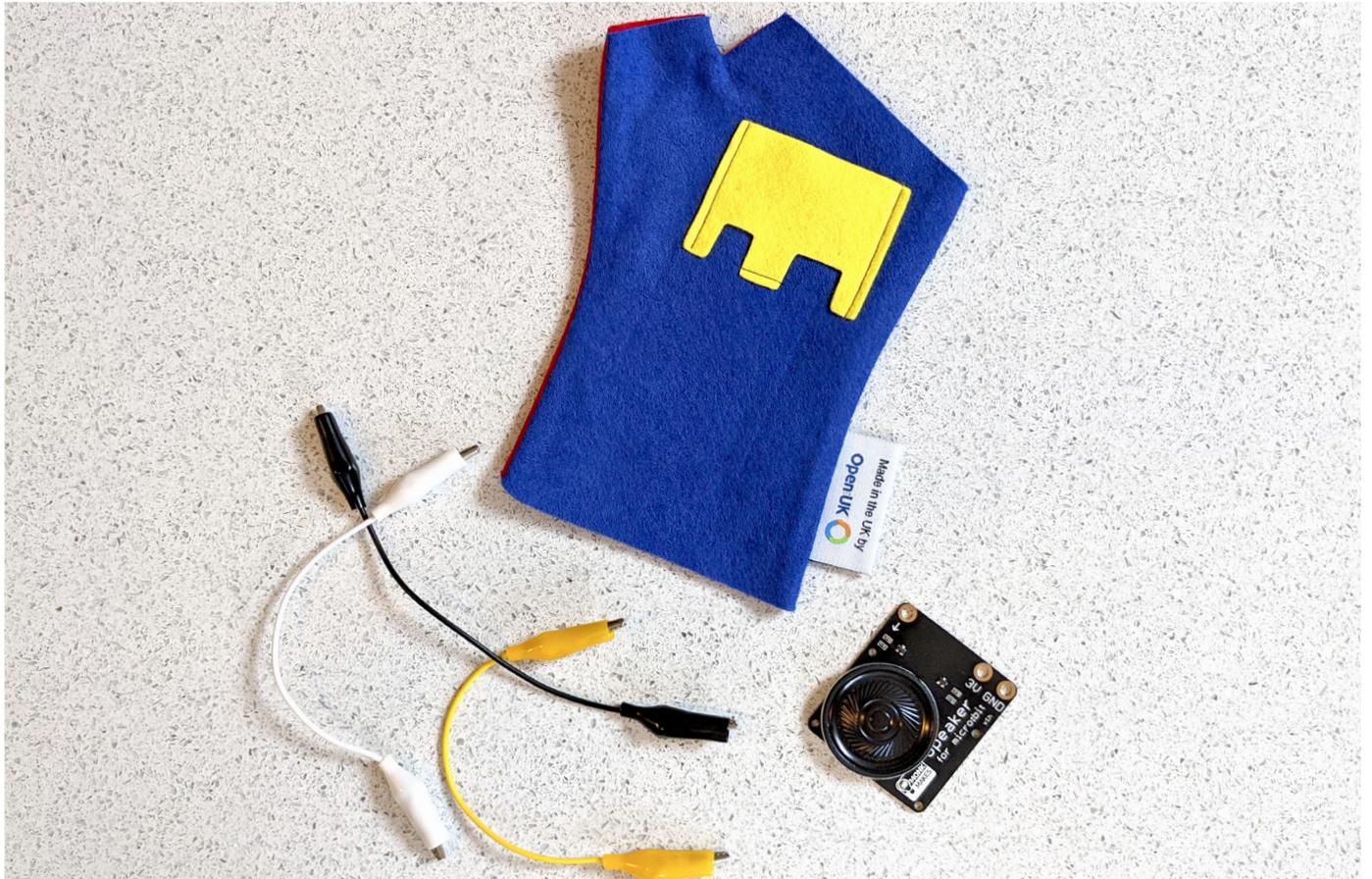
Teachers and Community leaders will be able to register for a box of 30 gloves and individuals are able to register for one per person, [Glove Registration and Camp Details](#).

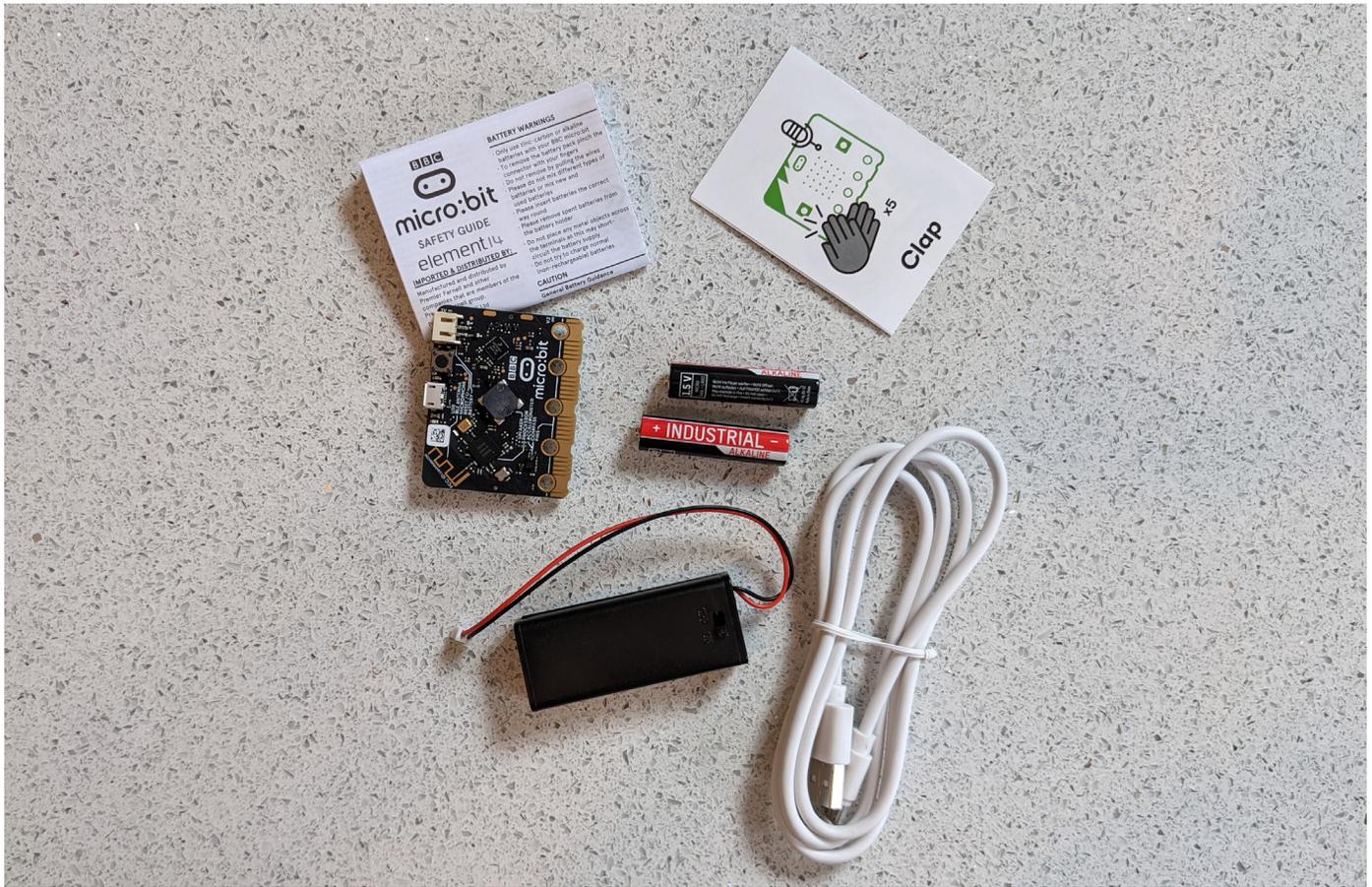
- The gloves are inspired by MiMu and pre-stitched (we were told the young people participating did not enjoy stitching gloves). You may however if you are using a micro:bit 1 and a speaker
- then you may prefer to stitch your speaker in place. You can also use an elastic.
- The gloves have been cut and stitched in the UK to create a more sustainable supply chain in line with OpenUK's sustainability policy, and the speakers have been manufactured in the UK by Monk Makes.
- All gloves are a medium size and can be adjusted using an elastic or a quick stitch.
- We have a limited supply of left handed gloves
- Gloves are given away in accordance with our terms and conditions, and first come first served so order early to avoid disappointment.
- 3800 gloves come with a speaker and crocodile clips and you need to provide your own micro:bit, usb and battery pack/ batteries
- 1200 gloves include micro:bit, usb and battery pack/ batteries and are available to community groups and teachers representing digitally excluded children.





“You will need the following items which are included with the 1200 gloves reserved for digitally excluded Children”





We are also holding a second OpenUK Kids Competition as part of the Camp, [OpenUK Competition](#). We ask all teachers and community groups who receive a box of 30 gloves to take part in this competition. Registration for the competition and for the boxes of gloves is simultaneous. The teacher or community leader must complete all forms and undertake the inputs on the platform, competition submission and complete media releases for the participants. They will be subject to Epam, our platform provider for the competition and OpenUK's privacy policies.

The Competition can also be entered by groups of 4 eligible children with a responsible adult. The responsible adult must complete all forms and undertake the inputs on the platform, competition submission and complete media releases for the participants. They will be subject to Epam, our platform provider for the competition and OpenUK's privacy policies.

The teams will be challenged to undertake and submit the following in the competition:

- creating and demonstrating an idea for an innovative product using the glove; they will build and demonstrate their idea using an existing open source product, the open hardware and open source software in the MiMu Glove including a micro:bit and to provide a 1 minute video of their concept.
- create a one minute video of their understanding of how open source benefits us all in
- creating sustainable technology.
- design an A3 poster showing how open source software enhances sustainability.

The competition will run from December to 10 February and full competition terms and conditions are included on our site and in the registration process.

The Competition will be publicly announced in the OpenUK Learning Dome at COP26.

By working collaboratively, teams of 4 children will design and build something new and creative and learn how open technology enables innovation through collaboration. This is the second of many planned OpenUK awards and kids' competitions.

This guide gives you an overview of the process and the milestones along the way. It also covers the requirements of the competition and introduces the tools, support and infrastructure on offer to your school or group and children.

The competition is promoted and supported by OpenUK, the organisation for the business of Open Technology in the UK. Learners will be provided with suitable materials introducing the key ideas and practices behind open source, and they will present their findings and thoughts on using open technology. OpenUK is working on a knowledge module for apprenticeship schemes and academic qualification.

## 1. Registration

There is no restriction on the age of children participating in the Camp. However, the competition is open to a group of 4 eligible children, with a responsible adult to supervise them from any school or community group and is targeted at Key Stage 3 (or equivalent) pupils (11-14 years old) but any children in Secondary education at the time of registration and who will continue to be in February 2022 may participate.

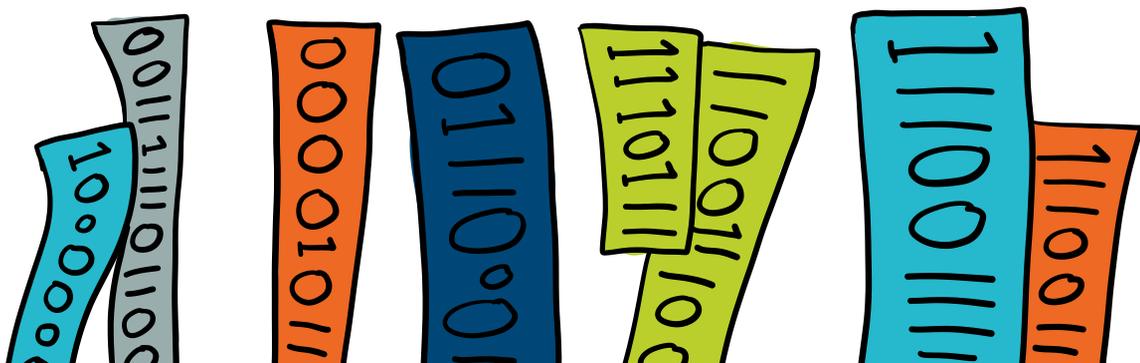
The registration process will be handled through our partner organization, Epam and OpenUK. Communication will be managed and tracked, and video and document resources will be available through the Epam Platform. All adults representing a team are required to sign-up to that platform to register.

Help is available as required within the structure of the competition rules will be available from OpenUK, by contact via the Platform and can be found on OpenUK's web site [Kids Competition](#).

Registration will be open to any group of 4 eligible children with gloves and a responsible adult willing to manage the process and do the registrations and submission. The first 100 Teachers and Community Leaders registering will receive a box of 30 gloves and an additional 1200 are available to digitally excluded children.

Each school or community group will be required to put together a team of 4 eligible young people who all meet the qualifying criteria and 1 supervising adult.

You are encouraged to have diverse teams where possible.



## 2. Equipment and Course

Teams who are successful in their registration for a box of 30 glove kits and individuals who are successful in registering for a glove will be notified of this.

If you are making your own glove then you will be required to assemble the glove kit. You can find details of the open sourced MiniMY glove at <https://mimugloves.com/> and can learn how to use it and the BBC micro:bit. Assembling the glove is covered in episode 1 of the first OpenUK Kids Camp.

## 3. Competition

The focus of the competition will be for learners to showcase their creativity in using the interactive glove and demonstrating their understanding of open source, the Open Source Definition and how open source software can improve sustainability of technology.

The MiMu glove which inspired the MiniMu and OpenUK gloves, has been developed by the double Grammy winning artist Imogen Heap. It is used by many other artists, for example Ariane Grande whose tours have featured it. Imogen will participate in the competition as an expert.

It is not expected that learners will have time to delve into the detailed programming and technology behind the gloves, though this will be given as background information and they are encouraged to explore the device in more depth and they will of course learn to code.

The main objective is for them to use the glove as a platform to inform their ideas about how it can be used in a performance.

Schools are expected to have the facilities and knowledge to produce simple videos suitable for upload to the Epam Platform. There are no other requirements as to the video format. Videos will be mixed and used by OpenUK in various formats and may be included in social media and OpenUK Museum Exhibitions amongst other uses. Media consent to be obtained by supervising adults.

The competition is about creativity and therefore it would be an advantage for learners to have access to materials to create appropriate props or backgrounds for their suggested performances in the video.

## Dates

The dates for the competition are:

Register while stocks last and subject to availability

You will be notified if your registration is successful

Gloves will be sent out end of September

Course can be taken at your own pace, but will be released weekly from around 4 October

Competition runs from 1 December to 10 February

Winners will be announced at Easter 2022

There will be 5 Regional Winners and a National Winner

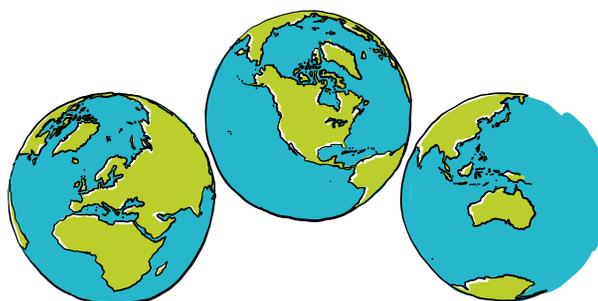
Winning group will receive a trophy and individual mini trophies. All winning children will also receive a technology prize supplied by Monk Makes.

Competition is promoted by OpenUK and Sponsored by Red Hat

Giveaway is promoted by OpenUK and sponsored by Nominet and the Open Data Institute

Unfortunately, due to Covid 19, no participant travel is included or required in the New Kids' Challenge. The five regions are:

- England – South,
- England – North,
- Northern Ireland,
- Scotland, and
- Wales.



Each team will produce for the competition:

- a creative use of the glove
- a video explaining some benefits of open source to sustainability
- an A3 poster of how open source benefits sustainability

They will need to submit this to the Epam Platform by 10 February for consideration.

## Competition Scoring and Criteria

Each team will be judged against 5 criteria for a total mark of 150 points by our Judging panel, who will allocate points in their sole discretion and whose decision will be final.

The team with the highest score in each region will win.

All team submissions and scores will be shared publicly on the Epam platform and may be used in whole or in part by OpenUK.

The categories and marks which the responsible adult should submit against are:

1. Innovation of idea
2. Understanding of open source software
3. Understanding of Sustainability
4. Collaboration of the team in the submission
5. Creativity in the videos and poster

These scores will be submitted by the responsible adult via the Epam Platform

## Judging

The innovative submission will be judged on the following criteria by our Judging panel.

### 1. Idea:

- Is it a unique idea/approach? e.g have you seen several ideas like this already ?
- Is it interesting? e.g do you go wow ?
- Does it inspire people to code and/or make music?
- Does it have a real-world application? e.g would people buy this product ?

## 2. Presentation:

- Is the video compelling? e.g did you watch to the end without getting bored ?
- Does the video show diversity? e.g male/female speakers and BAME ?
- Is the solution clearly explained?
- Do they show the mini.mu glove working?
- Do they mention Open Source?

## 3. Complexity:

- Did the idea make you realise that you needed more technical knowledge before attempting to replicate the prototype?
- Does their product need additional hardware? Beyond micro:bit and mini.mu? e.g did they use additional speakers?
- Do they supply or explain the code during the video?

## Overall winner will be chosen by our VIP Judging panel from the Regional Winners

The judging panel will consist of experts in creativity and technology from OpenUK and its partners, one of whom will be the deciding judge in case of similar scores and outputs. Judges' decision is final.

## Prizes

Each member of the winning Regional teams will receive  
Each group winning in a regional final will receive a regional trophy  
The Regional Winning schools or groups will receive a trophy the Overall Winner

## 4. Creating the Entry

Once the children have experimented with the glove, ideally following the OpenUK course, they will have all the information and experience they need to come up with some ideas for how it could be further extended and used.

They should sketch out some ideas that allow the glove to be used as part of an artistic performance, or as a tool to allow people using the glove to communicate or express themselves artistically. The glove can then be used to try some aspects of those ideas, and for the children to explain and demonstrate their idea in use

A key aspect of this competition is for children to experience the power of collaboration, both within their team and as part of building something new from a provided open source idea/product.

The final output is obviously a very important element, but the journey will also be important to the judging panel and can be reflected in the submission.

Collaboration is a critical element of the design and development process and central to open source practices and philosophy as is reuse and enhancement of existing ideas and technology.

Video content and the poster image can be uploaded until 10 February 2022.

## 5. Feedback/Plenary

An important part of this competition is to gauge young people's experience of engaging with Open Source technology and experts, and it is important that we get some feedback and thoughts from the participants about the whole process. This information will be used to inform future competitions and activities from OpenUK so they are encouraged to be frank and critical as required. This extends to the teachers managing the teams and how the experience worked for them and their schools, as well as suggestions for other competitions and activities.

## Contacts

OpenUK administration email: [admin@openuk.uk](mailto:admin@openuk.uk)

Register for the gloves and to participate in the Competition at:

No need to register to do the Camp or course.

