



# THE PA RASPBERRY PI COMPETITION 2023

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# A POSITIVE HUMAN FUTURE: ACCELERATING ENERGY TRANSITION

## PA's Raspberry Pi Competition Rules

Thank you for your interest in the Pi-making challenge,  
a competition being run by PA.

### What is the PA Raspberry Pi Competition?

The aim of the competition is to inspire more young people to take up computer programming and collaborate to develop products to make the world a better place.

This year, the teams are being challenged to invent solutions to help accelerate energy transition to support overall sustainability and climate response goals.

### Who can enter the PA Raspberry Pi Competition?

The Competition is open to anyone who is resident in the UK or Republic of Ireland. No one who works for PA Consulting (or is closely related to a person that does) is allowed to enter.

All schools, colleges and clubs in the UK and Republic of Ireland are eligible to enter, including prep school and home school equivalent.

We reserve the right to ask for proof of age.

## THE CATEGORIES

**School years 4-6**

**School years 7-9**

**School years 10-11**

**School years 12-13**

We reserve the right to alter the categories.





# A LITTLE HISTORY

## About PA?

We believe in the power of ingenuity to build a positive human future in a technology-driven world.

We have been bringing our clients ground-breaking innovations for much of our over 75-year history, from waste-free alternatives to plastic water bottles to online solutions for child safety; from remote care for vulnerable adults to personal products to tackle air pollution.

For more information about PA please visit: [paconsulting.com](http://paconsulting.com)

## What is a Raspberry Pi?

The Raspberry Pi is a low cost, credit-card sized computer that plugs into a computer monitor or TV, and uses a standard keyboard and mouse. It enables people of all ages to explore computing, and to learn how to program in languages like Scratch and Python. It's capable of doing everything you'd expect a desktop computer to do, from browsing the internet and playing high-definition video, to making spreadsheets, word-processing, and playing games.

What's more, the Raspberry Pi has the ability to interact with the outside world, and has been used in a wide array of digital maker projects, from patient monitoring machines and weather stations to environment monitoring across a city. The Raspberry Pi has the potential to be used by children all over the world to learn to program and understand how computers work.

# ENTERING THE COMPETITION: WHAT YOU NEED TO KNOW

## THE CATEGORIES

**School years 4-6**

**School years 7-9**

**School years 10-11**

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We reserve the right to alter the categories.

### How many members are allowed per team?

Each team should consist of a minimum of two and a maximum of seven students.

In addition, each team requires an adult sponsor (the “Designated Contact”) to complete the registration and to accompany the teams to the events. We suggest a minimum of two adults support each team.

There is no limit on the amount of entries per school, college or club.

### What is the proposed timetable?

All entries in the first round must be submitted by midnight, Monday 20 March 2023. By this time, each participating team must have completed and submitted the registration form and all eligible teams must have invented something that utilises the Raspberry Pi in accordance with the Competition Rules. Your entry must include proof of working in a format of your choice, a brief summary of the project (500 words maximum) and a comprehensive build guide showing others how you produced your Raspberry Pi project including what you produced. This must include: A bill of any software modules and additional hardware, publicly hosted source code for software, instructions and a video presentation up to five minutes long hosted on a video sharing website (eg YouTube).

The competition awards day is expected to be held in April 2023. The date and location of the final will be notified in writing to the teams that are selected to take part.

### How do teams apply?

The Designated Contact must complete the application form. The Designated Contact should have the approval of the Head who must consent in loco parentis. Parental consent forms will be required in the event that the team is shortlisted for the final.

### What can teams use to create their Raspberry Pi projects?

Teams may use a limited amount of additional hardware (over and above a display unit, keyboard, mouse, SD card and internet connectivity) with a budget of approximately £100 not including the cost of the Raspberry Pi itself.

Any software modules used must be available as source code (and under an open source licence).

Most of the software processing involved in each project should take place on the board of the Raspberry Pi.

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### What are the prizes?

The prize for each category is £1,000 per winning team. PA reserves the right to change prizes for the competition but will give notice via the Designated Contact at their earliest convenience.

### How will the Competition be judged?

We will appoint a judging panel consisting of employees from PA and other organisations. We reserve the right to remove or appoint judges at any time throughout the Competition. The judges' decisions on all matters arising in connection with the PA Raspberry Pi Competition are final.

### What are the judges looking for?

Entries will be evaluated on their creativity and originality. The judges may take into account a number of factors including but not limited to:

<b>Team passion</b>	How well the team's enthusiasm is portrayed through the group project.
<b>Simplicity and clarity of build instructions</b>	The propensity to encourage others by showing how the team created and built its project.
<b>World benefit</b>	Could the project improve our world today?
<b>Commercial potential</b>	Does the project have the propensity to develop and progress on a larger scale?

### Is my team eligible for a free Raspberry Pi starter kit?

There are 100 free Raspberry Pi development kits (including a Raspberry Pi, case, power supply, SD card, keyboard and mouse) which will be allocated on a first come first served basis on receipt of a completed entry form from any of the categories of the Raspberry Pi Competition.

You will be notified by PA if you are eligible to claim as soon as practically possible after your application is received.

Free starter kits are limited to a maximum of two per school, college or club.

### Entries must be your own original work!

Teams must ensure that all work is original and where any third party licences are required that they are obtained by the entrant and are wide enough to cover the use envisaged as part of the PA Raspberry Pi Competition. By entering, all entrants give PA permission to present their entry on the PA website or in physical locations in the context of promoting the competition.

### Entries must not be offensive, illegal or abusive!

PA in its sole discretion reserves the right to immediately disqualify any entry that is deemed to be offensive, illegal or abusive.

### What happens if our team can't attend the final?

If a team is unable to attend the final then they may have to withdraw from the PA Raspberry Pi Competition.

PA reserves the right to select an alternative team to take the place of any team unable to attend.

### The Competition privacy policy

PA reserves the right to process and pass on information including any personal data supplied as part of the Competition process to third parties who are involved in the organisation of the Competition including without limitation any venues or other third party suppliers.

Subject to the above, any personal data supplied as part of the Competition will be processed in accordance with PA's Privacy Policy

[www.paconsulting.com/legal/privacy-policy](http://www.paconsulting.com/legal/privacy-policy)

### Will photographs and images of the participants be taken and used?

As this is a competition which we anticipate will attract press and other interest, all participants under the age of 18 must have the required authorisation from their parents to have their photo taken and for their image to be used in connection with the Competition and promoting PA. As part of the Competition requires entries to be uploaded to a video sharing website, the Designated Contact is responsible for obtaining the appropriate consents for this. A Consent and Release Form must be completed for each team member and supplied to us on request.

PA reserves the right to amend or vary the Competition Rules at any time including cancelling or suspending the Raspberry Pi Competition in its sole discretion.

For the purposes of this Competition, 'PA' or 'PA Consulting' means 'PA Consulting Services Limited' (Company number 414220) whose registered office is at 10 Bressenden Place, London SW1E 5DN.



**STILL HAVE QUESTIONS?**

If you have any questions then please email:

[raspberrypi@paconsulting.com](mailto:raspberrypi@paconsulting.com)

## About PA

We believe in the power of ingenuity to build a positive human future.

As strategies, technologies and innovation collide we create opportunity from complexity.

Our diverse teams of experts combine innovative thinking and breakthrough use of technologies to progress further, faster, together. Our clients adapt and transform, and together we achieve enduring results.

We are over 4,000 strategists, innovators, designers, consultants, digital experts, scientists, engineers and technologists. And we have deep expertise in consumer and manufacturing, defence and security, energy and utilities, financial services, government and public services, health and life sciences, and transport.

Our teams operate globally from offices across the UK, Ireland, US, Nordics and Netherlands.

Discover more at [paconsulting.com](https://paconsulting.com) and connect with PA on [LinkedIn](#) and [Twitter](#).

**PA. Bringing Ingenuity to Life.**



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