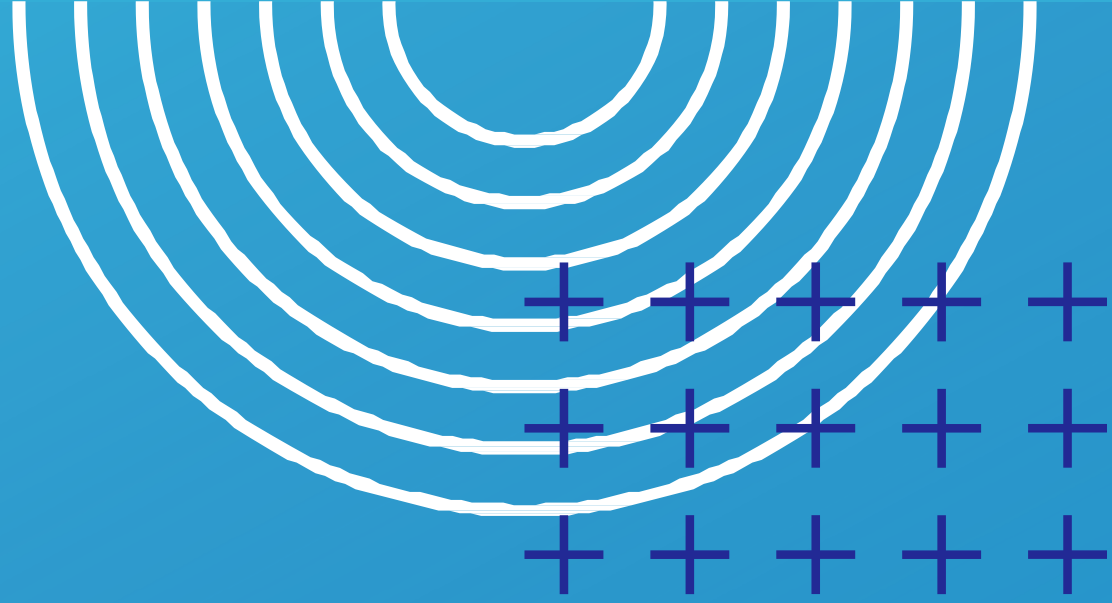


The Eurekas: Teacher guidelines





Inspire a generation

Take part in this year's Eurekas: a UK and Ireland-wide competition for students aged 11–16 where we challenge them to answer the question: what's the point of physics?

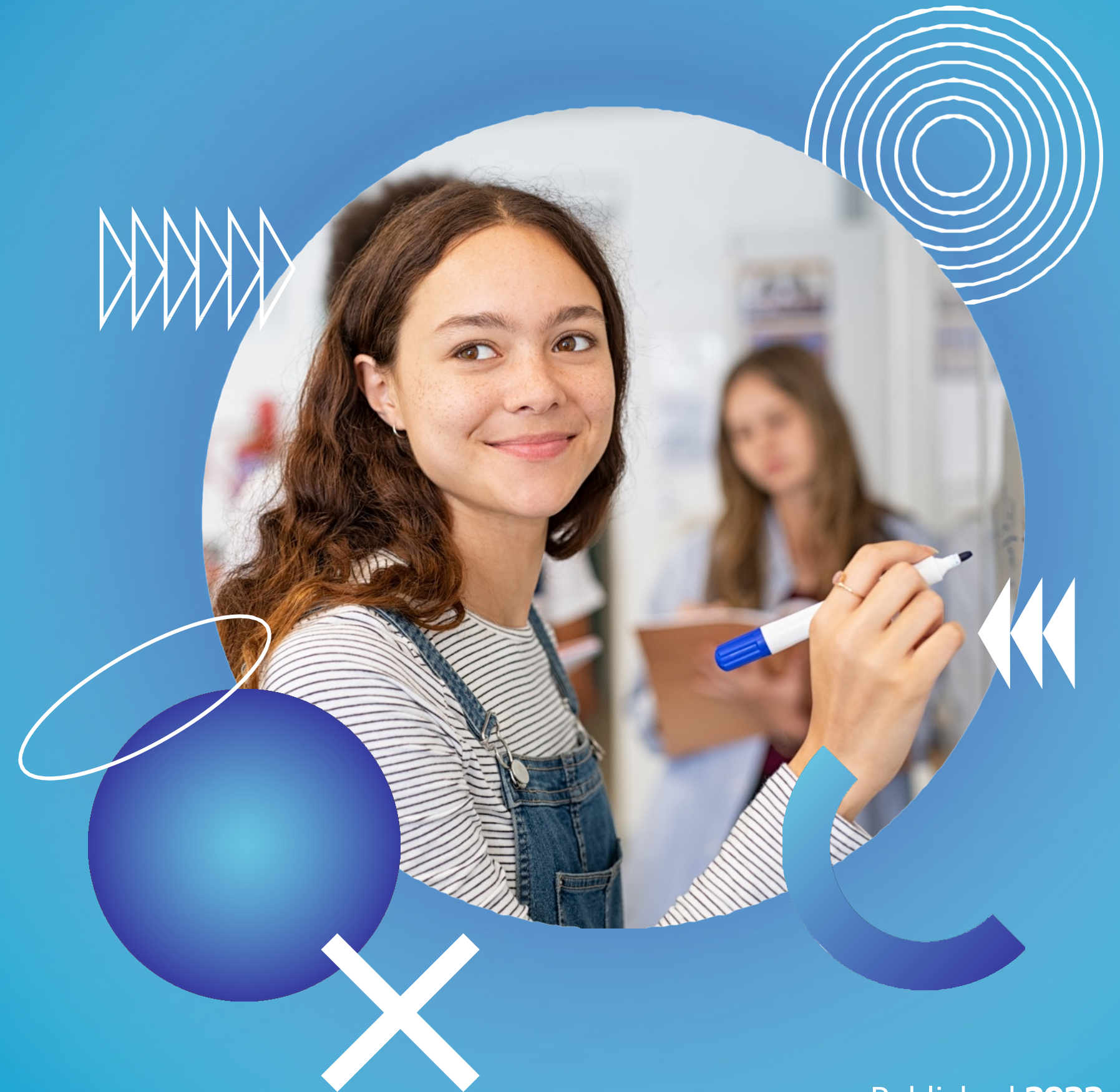


What are The Eureka's?

The Eureka's are part of the **Limit Less campaign**, which has been conceived by the **Institute of Physics** to broaden and diversify the range of people doing physics after age 16.

Every child has a unique talent or skill - yet they don't always get the chance to share this. **The Eureka's** is an opportunity for all students to shine by tapping into their individual passions and combining it with the world of physics.

Whether you teach art, music, English or PE, all teachers can inspire students to **see physics differently**. You can motivate young learners by helping them consider where the overlap with physics lies and help showcase their findings in a format they feel comfortable with.



How teachers can get involved

We are looking to teachers to support the Institute of Physics in getting students galvanised and energised about this challenge. With prizes up for grabs for the students **as well as their schools** we want as many people as possible to feel included and excited by The Eurekas.

In this document, we've laid out some slides that can be used by teachers across the UK and Ireland to help explain what The Eurekas are, and how students can get involved.

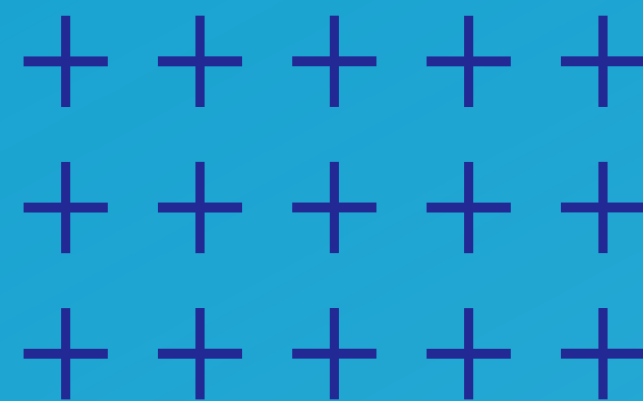
- **Explain** to students what the Eurekas are
- **Direct** them towards instructions
- **Incentivise** them with the prizes up for grabs
- **Show** them examples
- **Check in** with teachers, parents or carers for more support

Feel free to use these slides in lessons or assemblies, to introduce the idea to your classes, and get in touch with us at campaigns@iop.org for any further information.

IMPORTANT TO NOTE: Due to child safeguarding, IOP will only be accepting submissions from teachers and parents/carers. Please look closely at the competition Terms and Conditions for more information.

The Eureka

See physics differently



Into...

Science

Music

Sport

Art

Something else?

No matter your passion – channel your creativity into something special with **The Eurekas**.



What are The Eureka's?

The Eureka's are an annual physics competition for students aged 11-16 in the United Kingdom and Ireland, where we challenge you to **see physics differently**.

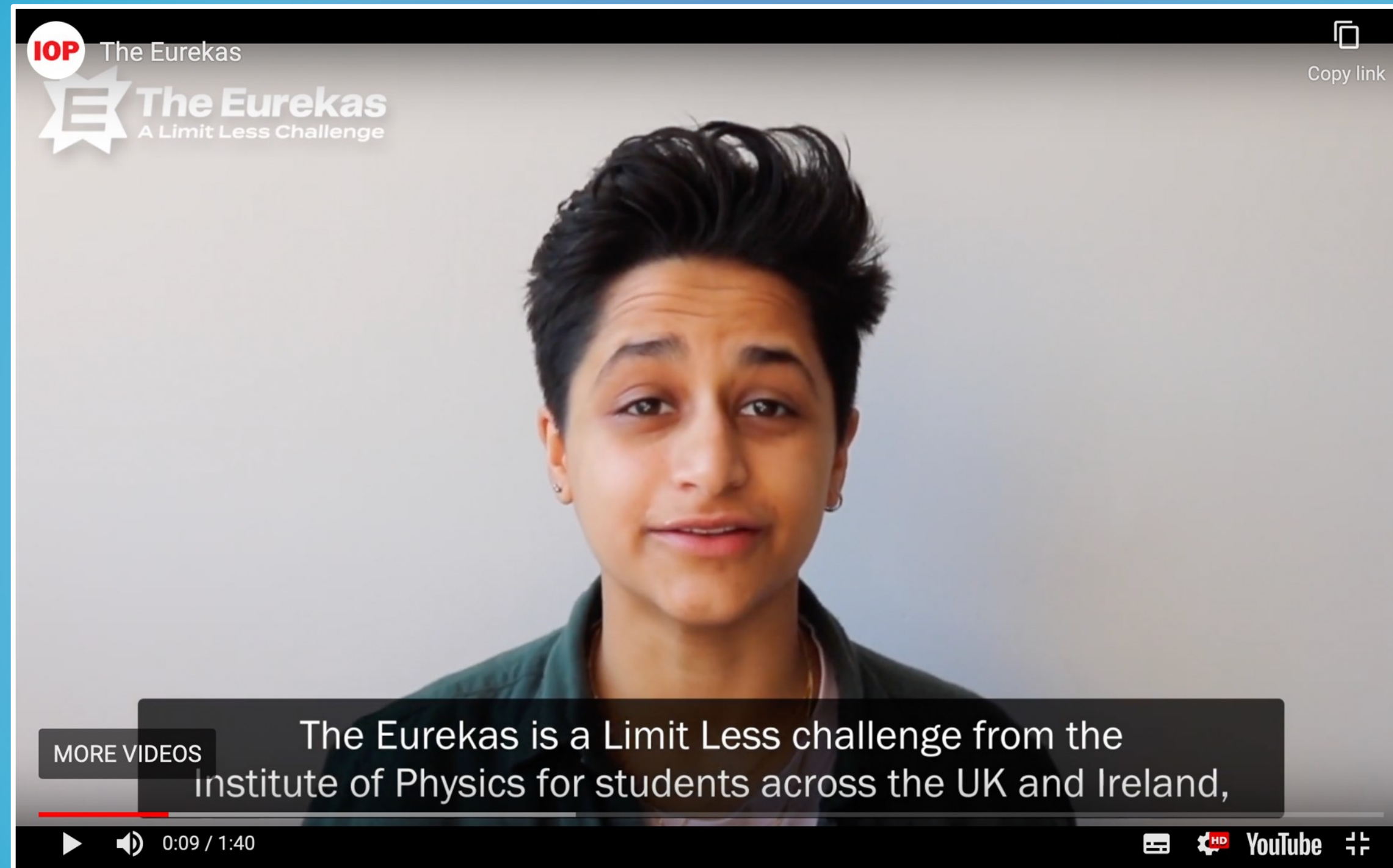
Whether arty, sporty, musical or into literature and language, science or humanities, we want you to show us how you interact with physics in your everyday life, how you see physics as part of the solution to an everyday challenge or global problem and, ultimately for you, **what's the point of physics?**

Any student aged 11-16 can take part and all entries that meet the criteria will be accepted. A judging panel of experts will determine which entries demonstrate exceptional originality and creativity, with a **£1000/€1200** to be won for the winning entry, **£50/€60** runner-up prizes and a **£250/€300** voucher for the schools attended by the winning entrants.

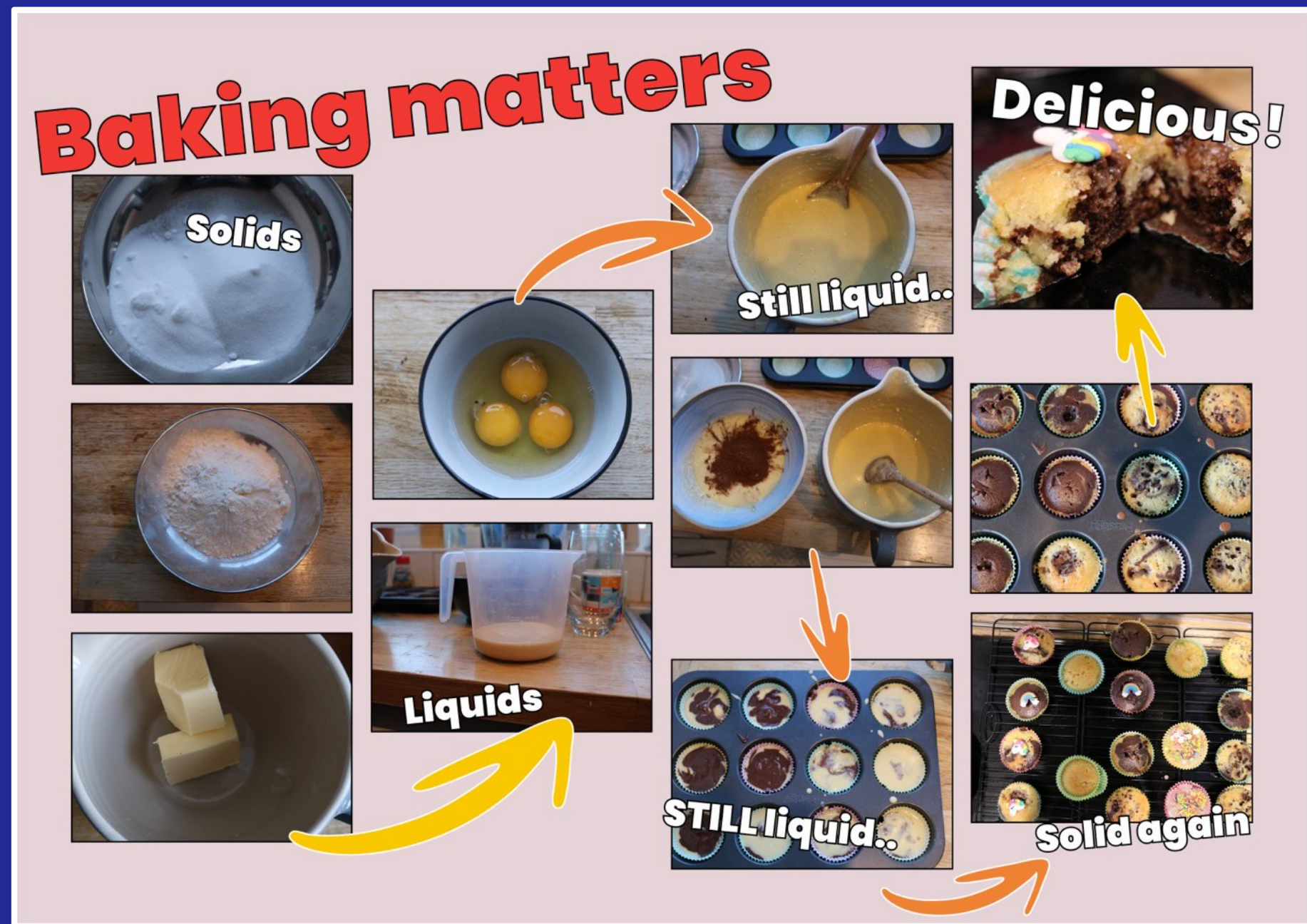


What do you need to do?

Take a look at the [instructions video](#) on the website to find out how to get involved..



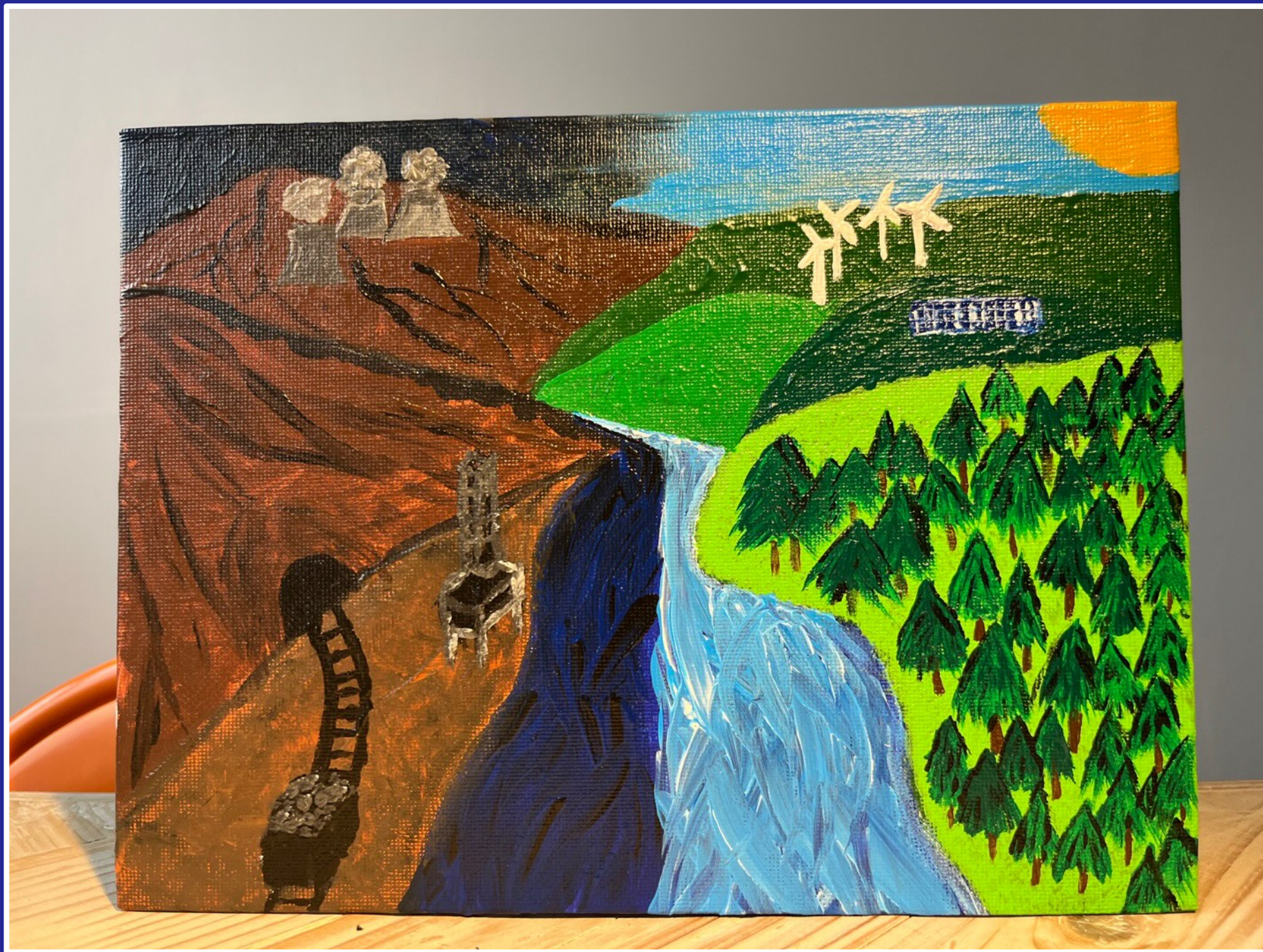
Example submission 1: Baking matters



This submission cleverly illustrates how ingredients can change states when they've been combined and heated. What's the point of physics here? To enjoy delicious cakes of course.

Example submission 2:

Two versions of our planet



This painting presents two versions of the planet: one destroyed and dirtied by fossil fuels; the other, bright and pure, enhanced by clean energy. To solve climate change we need physics and physicists to build the technologies that can keep our planet at the right temperature.

Example submission 3:

From lines in the sand



This entry uses poetry to show us how physics has played a huge part in communication. The verse shares the history of computing, from prehistoric times all the way through to now.

Example submission 4:

There's no eskating physics!



This submission has used video to demonstrate how physics affects us every day. It makes a clear case for the point of physics: getting from A to B on wheels, more smoothly and much faster too.

To watch video, click [here](#).

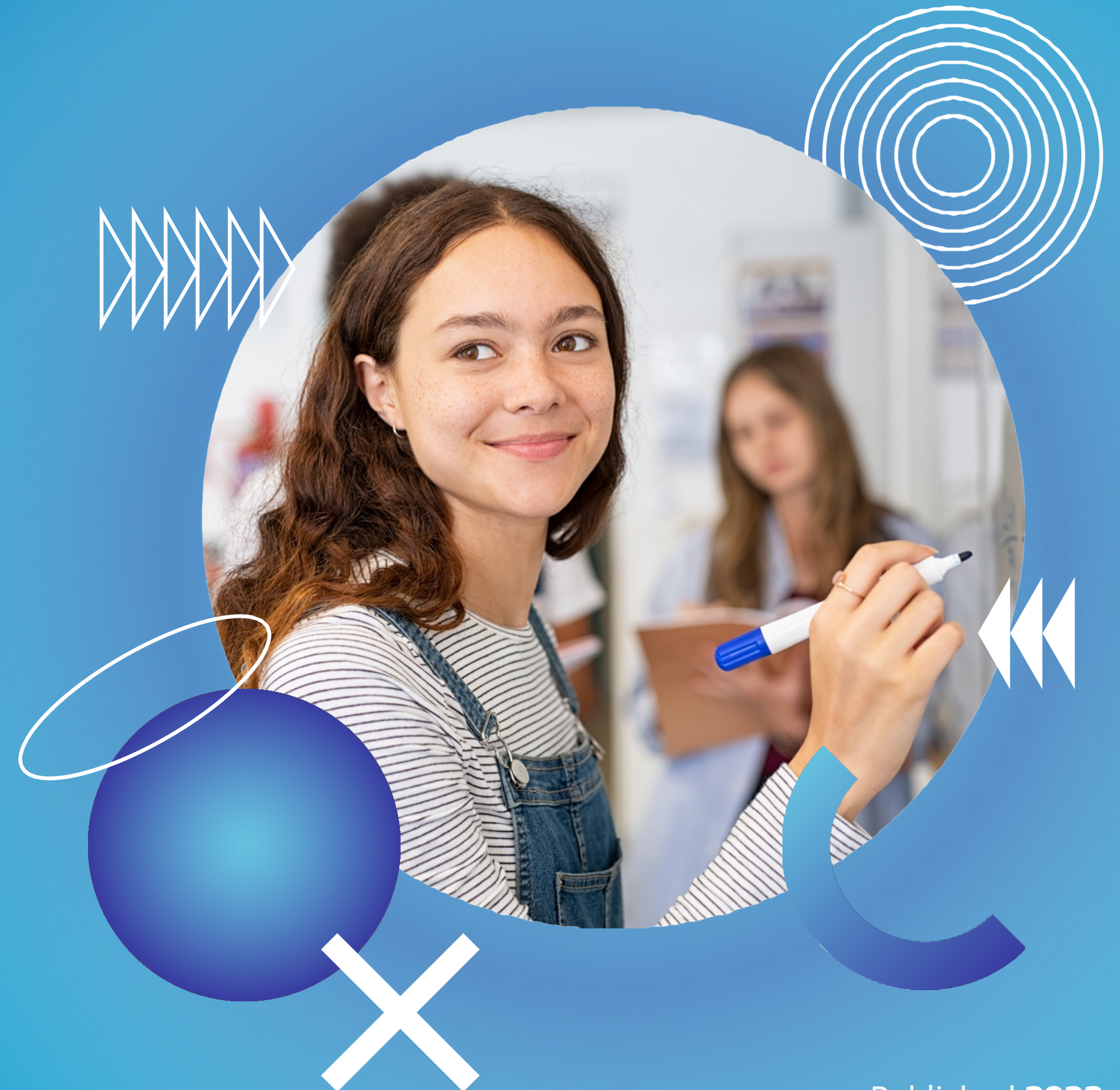
Published **2022**

Other ideas...

These aren't the only things we are looking for. Maybe you could...

- Paint a space farm that could end world hunger
- Sketch an aeroplane that is kinder to the environment
- Design a breathable waterproof jacket to keep you dry
- Record the best technique to tune your guitar
- Film a weird and wonderful item changing from solid to liquid to gas
- Write a poem about the angle of Emma Radacanu's winning serve at 2021's US Open

As long as your entry shows that **understanding physics is key** to your example, you will be in the running for the top prizes. You can explain this thought process in your covering letter (see **Competition Guidelines** for more information).



Next steps...

**Do you have any ideas off the top of your head?
Start jotting them down and get creative!**

Ask your teacher or parent/carer for more
inspiration on ideas and information on deadlines.

And remember... **see physics differently.**

www.theeurekas.co.uk

