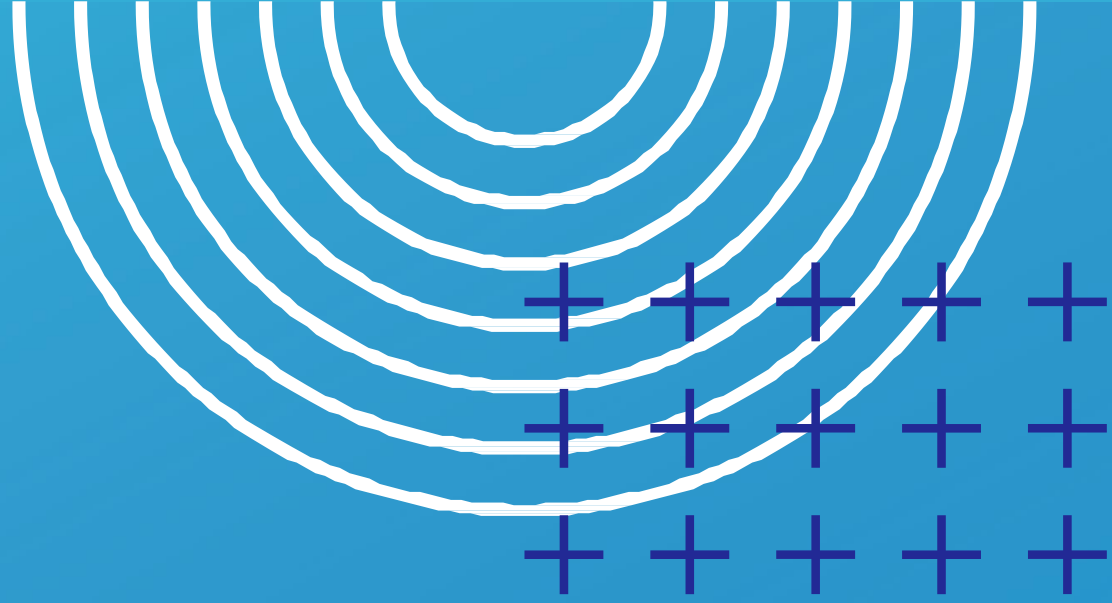


The Eurekas 2024

Teacher Toolkit





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:
Can physics help us solve mysteries?

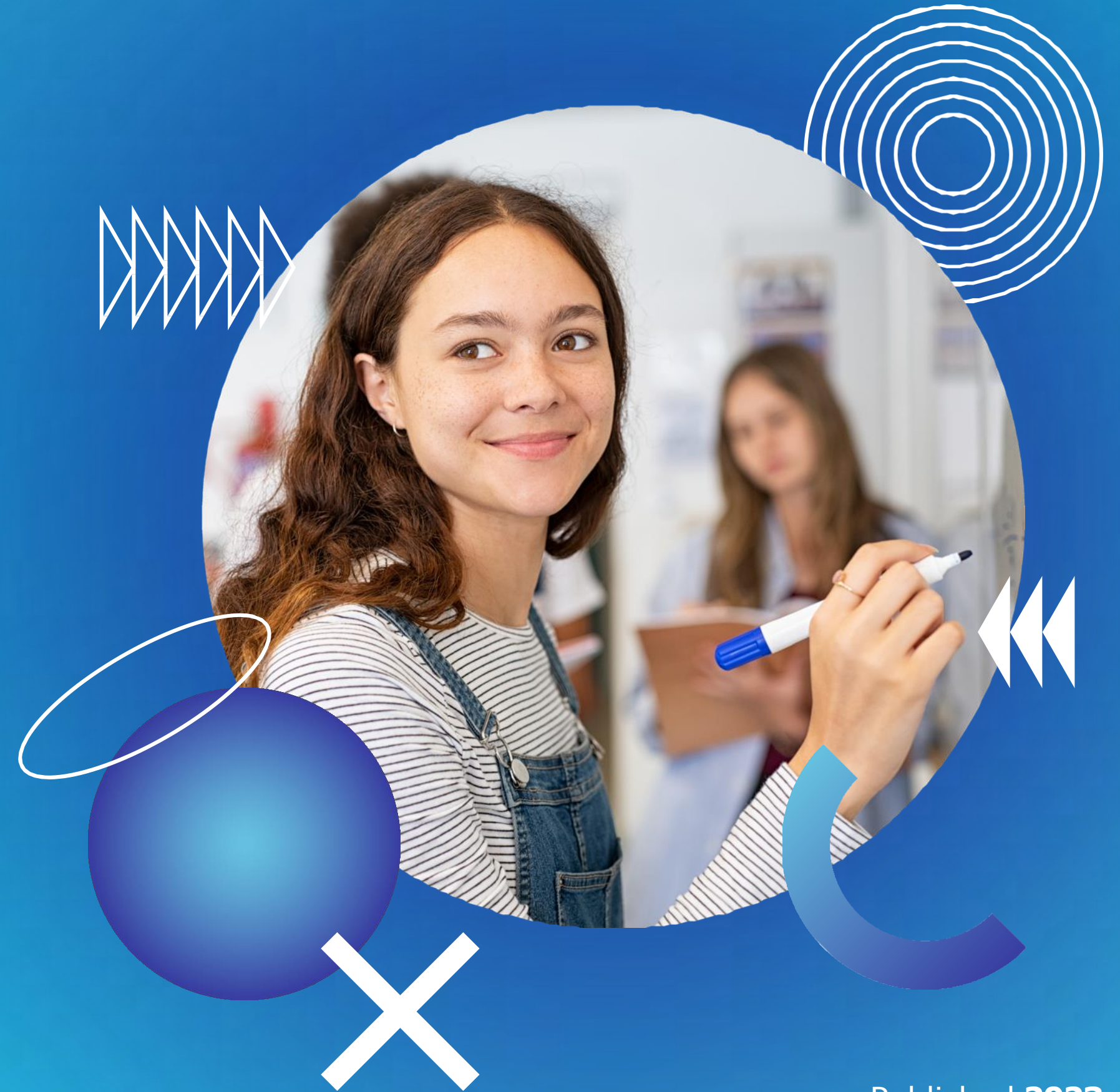


What is The Eureka?

The Eureka is 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 it. **The Eureka** 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 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 is, and how students can get involved.

- ❑ **Explain** to students what The Eurekas is
- ❑ **Direct** them towards instructions
- ❑ **Incentivise** them with the prizes up for grabs
- ❑ **Show** them examples

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

IOP Institute of Physics



Published **2023**

Intro...

Science

Music

Sport

Art

Something else?

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



What is The Eureka?

The Eureka is an annual physics competition for students aged 11-16 in the UK and Ireland, where we challenge you to **see physics differently**.

Imagine the world as a giant puzzle waiting to be solved, from global challenges such as tackling climate change to the more personal such as mastering the perfect rise on your latest bake or understanding the strategy behind a winning goal. **We challenge you to show us how physics can provide the answers.**

We want to see submissions that show you interacting with physics creatively and in a way we might not expect - as you explore how physics can provide the solution to the mysteries in our lives.

An inspiring judging panel will determine which entries demonstrate exceptional originality and creativity, with an overall winner receiving **£1,000/€1,200**, plus **£250/€300** for their school. Two runners up will each win **£500/€600** and there will be six prizes of **£250/€300** awarded to an outstanding entry from someone at every age, from 11 to 16.



Watch the video.

Take a look at The Eureka's video to find out more about the competition.



Get inspired

Explore last year's entries for inspiration: theeurekas.co.uk/get-inspired



Winning entry: Newton's
Formula 1



Runner-up: Flying with
Newton's Laws



Highly Commended: How
Physics Powers Climbing



Highly Commended: The
Gravity of Video Games



Eras Tour Magic



Cosmic Confection

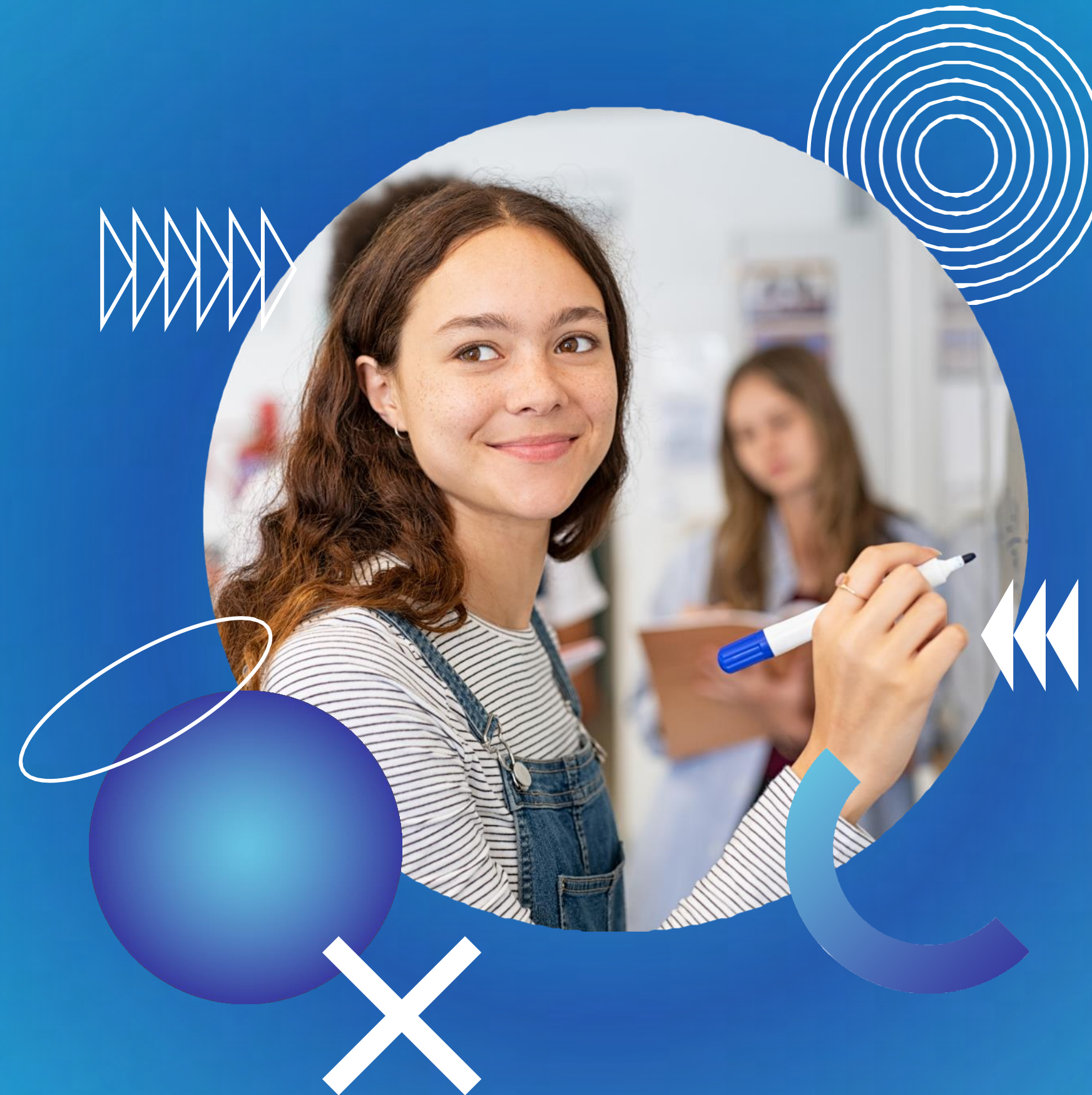
Get creative

Think about what your entry might be.

- **Craft an artwork** showing how you would solve a problem, global or local, that you're passionate about
- **Make a sculpture** of a health device that has made life better for you or someone you love
- **Direct a video** explaining the physics in your favourite sport
- **Sing a song** or play an instrument and explain how physics makes the music happen
- **Imagine your hero** - someone you admire. Explain the physics in what they're famous for
- **Sew, bake or build something** and show us how physics makes it possible
- **Power up your favourite game** and demonstrate how it uses physics to be realistic

As long as your entry shows how **Physics can help us solve mysteries 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 parents/carer for help with ideas and an information on deadlines.

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

