

IET Education

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The IET

The Institution of Engineering and Technology (the IET) is a professional membership organisation with over 155,000 members in 153 countries and is a registered charity based in the UK. We **inspire, inform, and influence** the global engineering community **to engineer a better world**.

Over the past 151 years we have engaged with difference makers in Science, Technology, Engineering, and Maths (STEM) and have developed credibility in the education sector. With a diverse partner portfolio and good financial standing, the support we receive from others goes directly to further advancing STEM activities for children aged 4-19 with a focus on those from disadvantaged backgrounds.

For the 2021/22 academic year, we engaged with over 39,600 students directly through our STEM programmes and will have reached over 176,000 young people, parents/guardians, and teachers through our range of free online teaching resources and public relations/engagement campaigns. The IET has placed education as a core part of its 2030 strategy and with a growing demand for real world projects after two years of disruption to students' education, the appetite has never been greater for STEM initiatives offered by the IET.



Why Support STEM Education

Advance Education

Enable teachers to confidently deliver subjects and topic matters around a real-world theme, giving the learning context and relevance. Give educators the right tools for the job.

Breakdown Stereotypes

By introducing young students to the world of engineering we are able to breakdown stereotypes, encouraging students from all backgrounds to engage in something that may appear intimidating or unachievable.

Real-world Role Models

Volunteers from industry can naturally discuss the work they do acting as real-world role models for the students to aspire to. Regular interactions are the most impactful.

Develop Employability Skills

Teamworking

Students work together in teams, sharing turns and the materials they work with, learning from peers, and trusting each other with roles and responsibilities.

Communication

Students practise describing in rich detail, with clear instructions, explaining their reasons, all of which helps them to communicate and express ideas.

Problem-solving

Students practise staying focused, remembering a task or challenge, setting goals and making plans, producing creative ideas, and reflecting/evaluating their solutions.

Resilience

Students practise persevering when ideas fail and staying calm under the pressure of competition. A useful skill to exercise before facing the exam season.

FIRST® LEGO® League – Discover (Ages 4-6)

FIRST® LEGO® League Discover is a playful introductory STEM programme that ignites young students' natural curiosity and builds their habits of learning with hands-on activities using LEGO® DUPLO® bricks. The delivery of this age division takes place primarily in the classroom during lesson time, however through the Six Bricks activity parents/guardians are encouraged to play an active role in the students learning, helping to influence their perceptions of STEM. In the classroom teams work through the guided sessions discovering mechanical solutions culminating in a internal Celebration Event hosted at their school where the students share their ideas, learning journeys, and final designs. The Celebration Events are non-competitive with all students being celebrated for taking part in the programme.



Students Journey



FIRST® LEGO® League – Explore (Ages 6-9)

In FIRST® LEGO® League Explore, teams of up to six students focus on the fundamentals of engineering as they explore real-world problems, learn to design, code, and create unique solutions made with LEGO® bricks and powered by LEGO® Education SPIKE Essential. The delivery of this age division takes place as either an extra-curricular activity or as part of the curriculum during lesson time. Teams work through the guided sessions culminating at a Festival Event, either held within their school or by attending one of our Regional Festivals. During the Festival a reviewer will discuss their team poster with them looking for the core values – impact, discovery, innovation, teamwork, inclusion and fun. The Festivals are non-competitive with all students being celebrated for taking part in the programme.



Students Journey

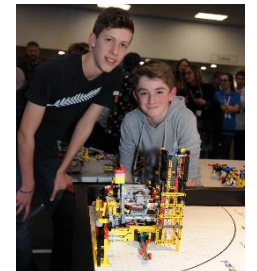


FIRST® LEGO® League – Challenge (Ages 9-16)

Friendly competition is at the heart of FIRST® LEGO® League Challenge, as teams of up to ten students engage in research, problem-solving, coding, and engineering - building and programming a LEGO® robot that navigates the missions of a robot game autonomously. Teams must also identify a real world problem focused around the annual theme as part of their Innovation Project and come up with a solution that will be presented to a panel of judges. Students are encouraged to reach out to industry and this is where mentors can have a fantastic impact helping young people to understand real world challenges.



Innovation Project



Robot game roadmap



IET Faraday® Challenge Days (Ages 12-13)

The IET Faraday® Challenge is held at schools around the UK and is delivered as a full day activity with 36 students divided into 6 teams. Students experience the journey of becoming an engineer, from walking into the classroom, to completing an apprenticeship, and being tasked with their first design brief focused on a real-world annual theme. Students must work together to design and build a prototype solution that incorporates both mechanical and electrical elements, staying within the budget and time constraints of the project. Students are encouraged to be creative and use their own problem-solving skills to explore their capabilities as engineers. To conclude the day, students must present their solution to a panel of judges, typically made up of industry volunteers. At the end of the year the challenge is repurposed into a DIY resource for educators and STEM Ambassadors to use, enabling the delivery of their own Faraday® Challenge Days and keeping the theme alive.



Students Journey



Educational Resources (Ages 4-19)

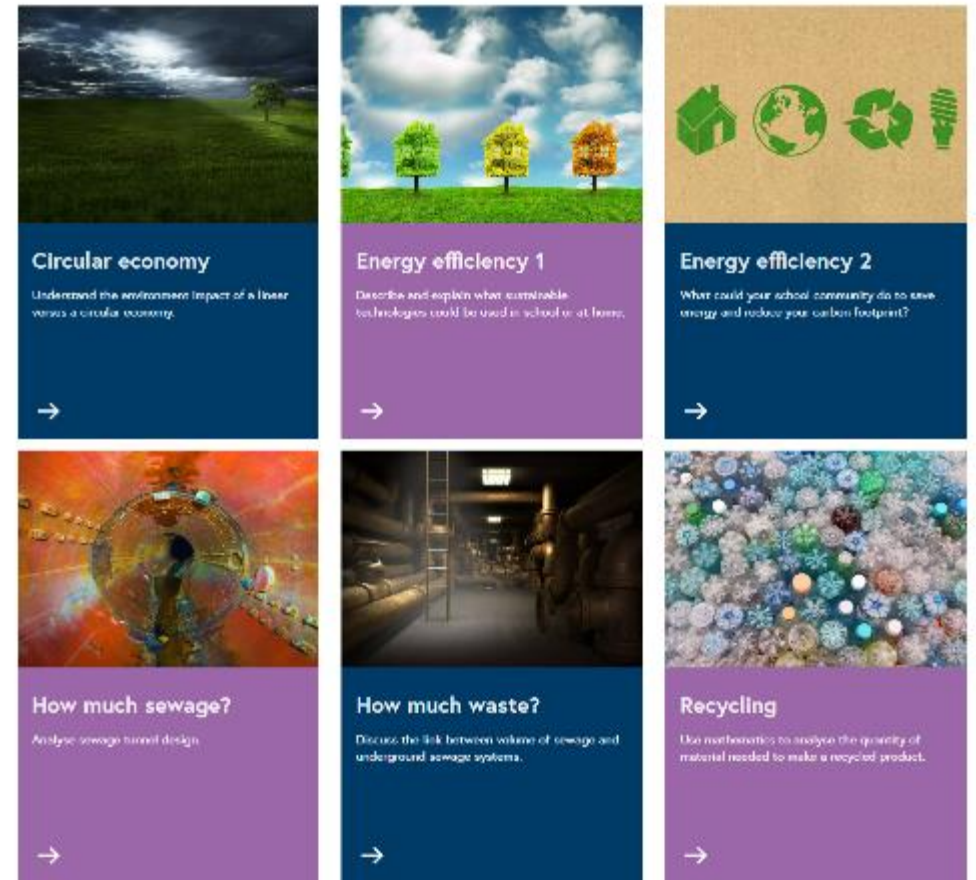
We provide free teaching resources, classroom/home school activities and educational podcasts for students aged 4-11 and 11-19 years. Everything an educator could want to deliver high quality STEM lessons.

All of our resources are mapped to the curriculum and we work with experienced resource writers to generate content that is fit for purpose. Whatever ideas you may have we can make it accessible to the classroom.

Our resources are used by educators from around the world, help us diversify our offering and grow the collection.

- **4,610 downloads per month on average from IET Education**
- **2,578 downloads per month from partners websites**

You will find our resources on social media, TES, STEM Learning, teachingideas.co.uk and greatscienceshare.org



Download statistics for our Educational Resources are captured directly from our website www.education.theiet.org.

Teacher Membership

As the largest professional engineering institution in Europe we have taken our core offering and applied it in a way that will benefit educators through [Teacher Membership](#). For £30 a year, teachers will gain the following benefits:

- Access to life skills and professional development courses to support their CPD with access to our online CPD management system: [Career Manager](#)
- Access to networking opportunities with our Academic, Corporate, and Enterprise Partners
- Link up with our industry contacts to help with finding engineers for school visits or to support the provision of student work experience
- Work with universities to support students wishing to study STEM
- Network through our specialist online communities, including a STEM teachers community and discussion forum
- Access thousands of STEM videos on a variety of topics, with searchable content through [iet.tv](#), our extensive video archive
- Access to the digital edition of our award-winning STEM specific Magazine: [E&T](#)





Sponsorship of IET Education



Choose A Program – Or A Combination

FIRST® LEGO® League



Support the delivery of the programme by:

- Sponsoring core activities
- Sponsoring / hosting regional Events
- Sponsoring team registration
- Mentoring / volunteering

Faraday® Challenge



Support the delivery of the programme by:

- Sponsoring the annual theme
- Sponsoring core activities
- Sponsoring / hosting Challenge Days
- Volunteering

STEM Resources



Support our archive of STEM resources by:

- Sponsoring core activities
- Sponsoring creation of teaching resources
- Sponsoring creation of podcasts

Teacher Membership



Support our teacher membership's by:

- Sponsoring core activities
- Fund teacher memberships for a target group/region.
- Directly funding a teacher's membership

Allocate Your Budget – Bespoke Options Available

FIRST® LEGO® League



National Partner - **£80,000**
Programme Sponsor - **£40,000**
Regional Sponsor - **£10,000**
Discover reg (Ages 4-6) - **£1,400** per class of 32
Explore reg (Ages 6-9) - **£280** per team of 6
Challenge reg (Ages 9-16) - **£595** per team of 10

Faraday® Challenge



Theme Partner - **£35,000**
Programme Sponsor - **£24,000**
Regional Sponsor - **£12,000**
Pay as you go – **£1,200** per challenge day

STEM Resources



STEM Resource Partner - **£25,000**
Themed Collection - **£10,000 - £15,000**
Teaching Resource - **£1,000 - £1,500**
Podcast Series – **£10,000**
Podcast episode – **£1,200**

Teacher Membership



Principal Partner - **£15,000**
Regional Funder – **£1,500**
Pay as you go – **£30** per teacher

Agree Recognition Level - **FIRST® LEGO® League**

Branding on FIRST® LEGO® League materials:

- Student Notebooks [1]
- Certificates [2]
- Newsletters [3]
- Sticker Set [5]
- Social Media
- Promotional Materials
- Email Signature
- IET Education Website

Branding at FIRST® LEGO® League Regional Events:

- Banners [7]
- PowerPoint Slides [9]
- Medal Lanyards
- Trophy Sticker [4]
- Give-aways [10]
- Bespoke Award

Branding at FIRST® LEGO® League Finals:

- All From Regional Events, Plus:
- Team Placards [6]
- Event App [8]
- Finals Stage
- Livestream Advert
- [Highlights Video](#)

Direct involvement in the programme:

- Host a Tournament
- Mentor Teams
- Volunteer at Events
- Exhibition at Finals
- VIP Tickets to Finals
- Present Awards to Competitors

[1]



[2]



[3]



[4]



[5]



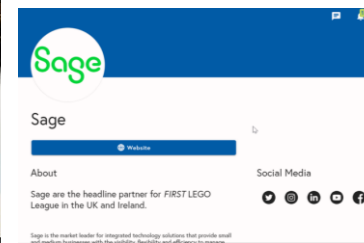
[6]



[7]



[8]



[9]



[10]



Agree Recognition Level – Faraday[®] Challenge

Branding on Faraday[®] Challenge materials:

- Student Notebook [1]
- Teacher Handbooks
- How to Guides [2]
- Email Signature
- Social Media [4]
- Promotional Materials
- IET Education Website

Branding at Faraday[®] Challenge Days:

- Banners [5]
- Certificates [3]
- PowerPoint Slides
- Give-aways
- Bespoke award

Branding at Faraday[®] Challenge Final:

- All from regional events
- [Highlights video](#)

Direct involvement in the programme:

- Bespoke Annual Theme
- Host a Challenge Day
- Volunteer at Events
- Present Awards to Competitors
- VIP Tickets to Finals

[1]



With thanks to our supporters and sponsors...

The David Family Foundation

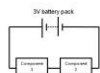


[2]



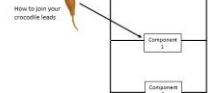
How to make a parallel circuit

If you want to put more than one component in a circuit you will find putting them in a series circuit will not work. (See diagram below with a motor and buzzer in the circuit). You will find bulbs do not light up or are not very bright, motors run slowly or not at all or buzzers are quiet or there is no sound at all.



Making a parallel circuit can help. This is all about **RESISTANCE**. Think about your Engineering Apprenticeship and what you learn about resistance there.

By connecting your two components (buzzer, LED or motor) in parallel as shown below you give the electricity two paths to flow through, each of which has only one component in it.



How to join your crocodile leads



[3]



For taking part in the

Faraday Challenge Day

Festival for Aspiring Engineers 2021



Presented to



[5]

[4]

Agree Recognition Level - Education Resources

Naming rights to resources theme [1]
Social media exposure [3]

Branding on funded Materials [2]
Branding on IET Education website [4]

[1]

Platinum Jubilee Resources

Activities for children and adults will be held over the spring and summer term, celebrating the Jubilee tea party theme to improve literacy and design and maths skills with year 6-11 year olds. We've got you covered and PTA inspired with these Platinum Jubilee activities? We have Jubilee activities for KS1 and KS2 supported by the materials with lesson plans and presentations alongside the party, to help you get your party to level.

Make learning with your class and create place settings - enjoy making our Jubilee school ideas for your tea party! Create beautifully designed crowns to wear and design delicious recipes with the children, to help them to work together and own their roles of their dishes for a Jubilee tea party to remember.

And please do share your learning highlights with us on social media: #IETeducation



[2]



[3]



[4]

Thank you to our IET Education sponsors



Agree Recognition Level - Teacher Membership

Bespoke letter to funded teacher
Social media exposure [2]

Branding on IET Teacher Membership Webpage [1]
Achieve organisations CSR requirements

[1]

Thank you to our IET Education sponsors



[2]

IET Education @IETEducation - Sep 29
"Education breeds confidence. Confidence breeds hope. Hope breeds peace." Confucius, one of the greatest #teachers ever. Encourage confidence within your #students using our free educational activities: ow.ly/Wtiq50Kte5R #ConfuciusDay #TeachersDay



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Join our cohort of supporters and be a part of our mission to engineer a better world



Thank you for considering our offering