



Resources for Teachers



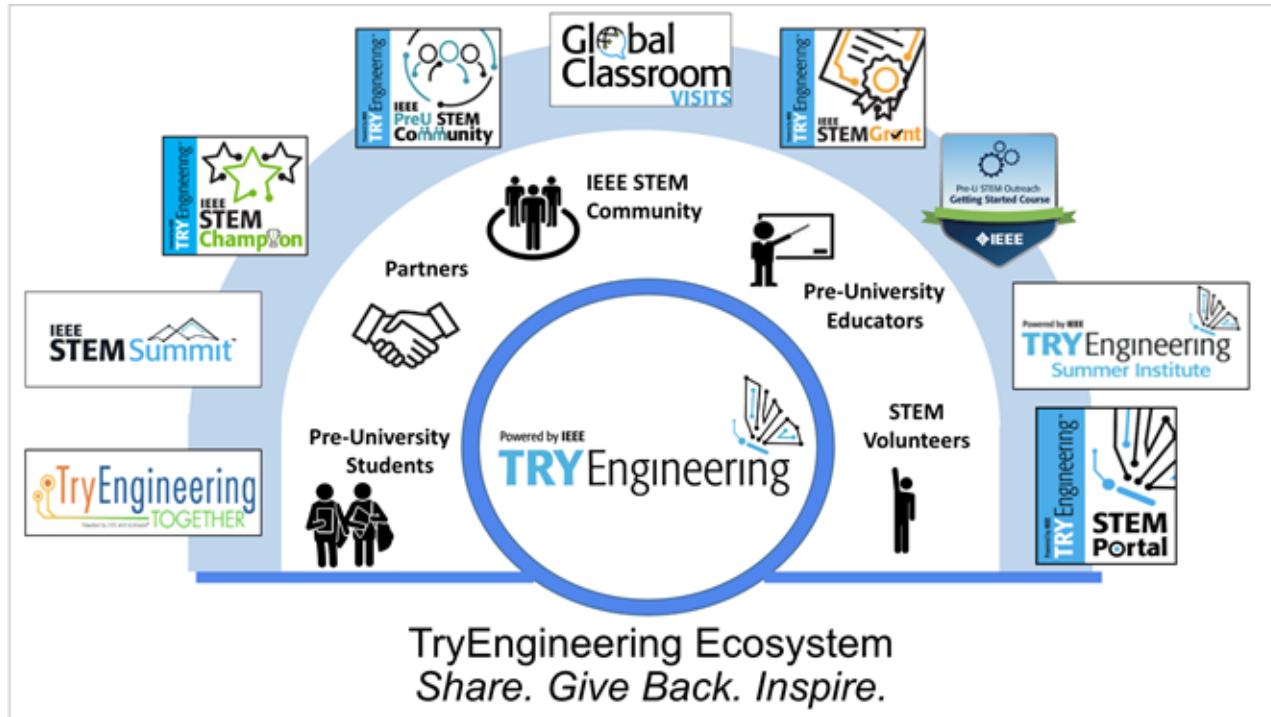
Powered by IEEE

TRY Engineering



Resources from TryEngineering

IEEE TryEngineering provides resources for educators to be used in classrooms and outreach activities to inspire the next generation of engineers and technologists.



Why?

School-aged children who pursue a career in engineering develop “Engineering Habits of Mind” and special soft skills such as resilience to failure, critical thinking and many more.



Dedicated volunteers are at the service of individuals and organizations who share Pre-university Education Coordinating Committee's vision, providing valuable support and collaboration opportunities.



Why?

The Engineering Design Process is an iterative way of thinking that not only helps engineers design solutions to the world's most challenging problems, it also helps spark curiosity and problems solving skills among all learners.

Teachers are invited to use TryEngineering Lesson Plans to enhance the classroom experience for all students.

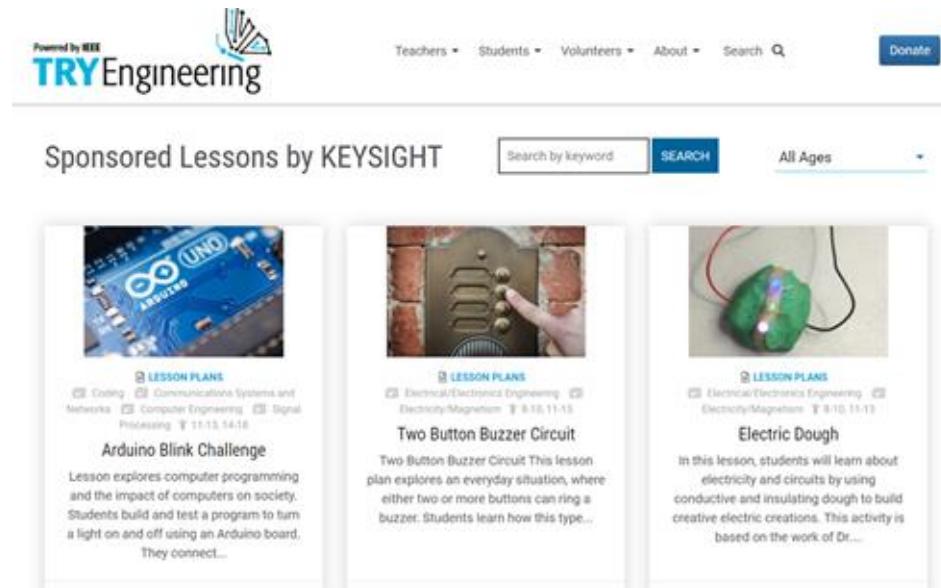


TryEngineering Lesson Plans

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More than 130 Lesson Plans

- [+ Lesson Plan Presentation](#)
- [+ Materials & Preparation](#)
- [+ Engineering Design Challenge](#)
- [+ Activity Instructions & Procedures](#)
- [+ Engineering Design Process](#)
- [+ Background Concepts](#)
- [+ Vocabulary](#)
- [+ Dig Deeper](#)
- [+ Curriculum Alignment](#)
- [+ Related Engineering Fields and Degrees](#)
- [+ Student Worksheet](#)
- [+ Translations](#)



The screenshot shows the TryEngineering website. The header includes the IEEE logo, the TryEngineering logo, and navigation links for Teachers, Students, Volunteers, About, and a search bar. Below the header, a section titled "Sponsored Lessons by KEYSIGHT" displays three cards for "Arduino Blink Challenge", "Two Button Buzzer Circuit", and "Electric Dough". Each card includes a thumbnail image, a "LESSON PLANS" button, and a brief description.

Sponsored Lessons by KEYSIGHT

Arduino Blink Challenge
Lesson explores computer programming and the impact of computers on society. Students build and test a program to turn a light on and off using an Arduino board. They connect...

Two Button Buzzer Circuit
Two Button Buzzer Circuit This lesson plan explores an everyday situation, where either two or more buttons can ring a buzzer. Students learn how this type...

Electric Dough
In this lesson, students will learn about electricity and circuits by using conductive and insulating dough to build creative electric creations. This activity is based on the work of Dr...



Ebooks by TryEngineering & the YouTube Channel



Our Flagship Conference - October 22-23



Nearly 1000 STEM Enthusiasts joined us in 2025 to hear from internationally known speakers who shared their ideas and resources for STEM Outreach.



Professional Development Sessions



Learn with TryEngineering!

- Arizona State University
- University of Florida (Orlando)
- University of Minnesota

Topics and Activities include:

- Semiconductors
- Engineering Design Process
- Tour of a Clean Room
- Artificial Intelligence



Interested? Contact: tryengineering@ieee.org



TryEngineering.org

All of our resources can be found on our website: tryengineering.org, available at no cost for all teachers.

- ▶ Lesson Plans
- ▶ News
- ▶ Video Resources
- ▶ Career Information



Thank you

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