YOUNG ENGINEERS AWARD
TEACHER INSTRUCTIONS
WELCOME TEACHERS!

We are delighted you have registered for the STEPS Young Engineers Award. The STEPS Young Engineers Award is a competition for 3rd and 4th class that introduces engineering. Students brainstorm an engineering project, make a prototype and meet engineering role models.

Curriculum Link

Taking part in the STEPS Young Engineers Award gives students the opportunity to explore Science and Engineering. The Strand Units of the Science and Engineering curriculum include:
- Environmental Awareness
- Properties of Characteristics of materials
- Science and the Environment

Students will learn:
- About engineering
- Teamwork and listening skills
- How to critically analyse their ideas
- Communication and presentation skills
- How to reflect and evaluate

Instructions

A. Divide your class into teams of up to 6.
B. Give each team a printed Project Book to fill in. You will receive a downloadable copy and link to our FAQ’s after you have completed the Teacher Application Form at https://steps.smapply.io/
C. Complete STEPS 1 to 4 with each team in your class. You will receive regular updates to guide you through these steps to help keep you on track. STEP 5 is optional.

STEP 1 BRAINSTORM YOUR IDEAS
The teams come up with ideas of how they would like to improve their community (or the life of someone in their community like a friend, neighbour, family member etc.). The team then pick their favourite to pick the one they will work on as their STEPS Young Engineers Award Project.

STEP 2 DRAW YOUR PROJECT
The team then Draw their project. This is a sketch design of their prototype they will make in Step 3.

STEP 3 MAKE YOUR PROJECT
The team make their prototype using materials found in the classroom, at home or recycled materials.

STEP 4 TEST AND EVALUATE YOUR PROJECT
Teams test their prototype and evaluate their project. They reflect on errors that may have occurred and what they could have done differently.

STEP 5 PRESENT YOUR PROJECT (OPTIONAL)
This is an optional step for teams. Each team presents their prototype to their classmates, a STEPS Volunteer, an invited guest such as Guest Engineer, their families or another class in the school.

D. Submit your project books to us before Friday, 4th December.
- Complete the cover page for each teams Project Book.
- Complete the submission form online at https://steps.smapply.io/
- Send your project book to us in the post by Friday, 4th of December to the address below:

Young Engineers Award 2020
STEPS
Engineers Ireland, 22 Clyde Road, Ballsbridge, Dublin 4.
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Email steps@engineersireland.ie for queries or visit: www.engineersireland.ie/schools for FAQ’s