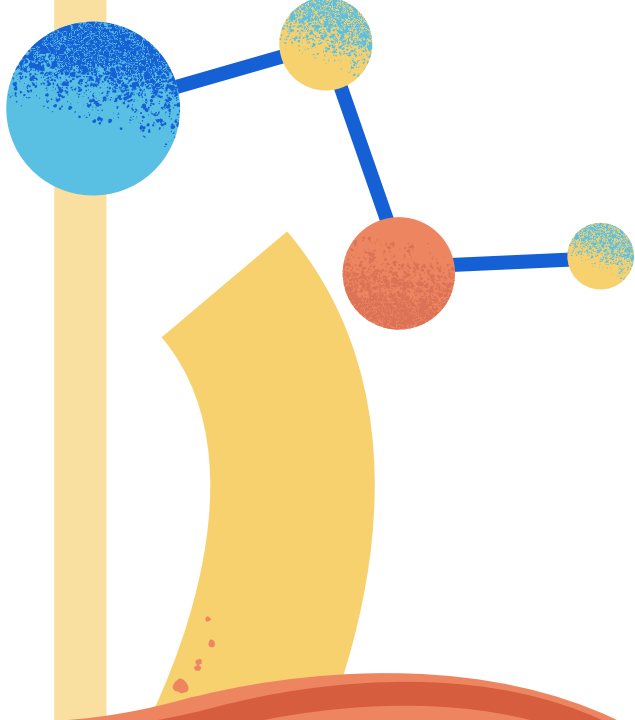


**JEFFREY ELEMENTARY
SCHOOL**

**MARCH 28TH, 2025
6:00PM-7:00PM**

INVENTION CONVENTION



Please click [here](#) or scan
the QR code to register by
3/3/25.

Trifold boards will be
provided in the front office
starting 3/10/25



Find out more at
www.JesPTO.org



Dear Parents,

The PTO is sponsoring Science Week at Jeffrey with many exciting science based activities scheduled for Monday March 24th- Friday March 28th. Mark your calendars...the week will conclude with **Invention Convention Night on Friday March 28th from 6:00pm-7:00pm at Jeffrey**. All Jeffrey students are invited to participate by creating a science project that can be presented at Invention Convention Night!

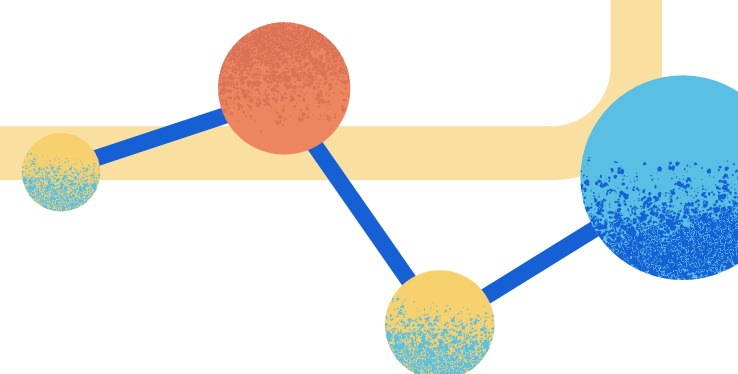
Invention Convention Project Reminders

- Students may enter as individuals, pairs or teams and can be from different classes/grade levels.
 - Students will need to create a free standing, trifold poster to present their project. Think about how it will be displayed. The trifold poster can display photographs, pictures, sketches, graphs, tables, charts, etc. (see back of paper) Deliver to school the morning of March 28th .
 - If appropriate, students are encouraged to bring their invention, not just the tri fold poster. Bring to school the night of Friday March 28th.
-

Please click [here](#) or scan the QR code to register by 3/3/25.
Trifold boards will be provided in the front office starting 3/10/25



****Please pick up your trifold board in the main office starting 3/10/25****





Invention Convention Trifold Example



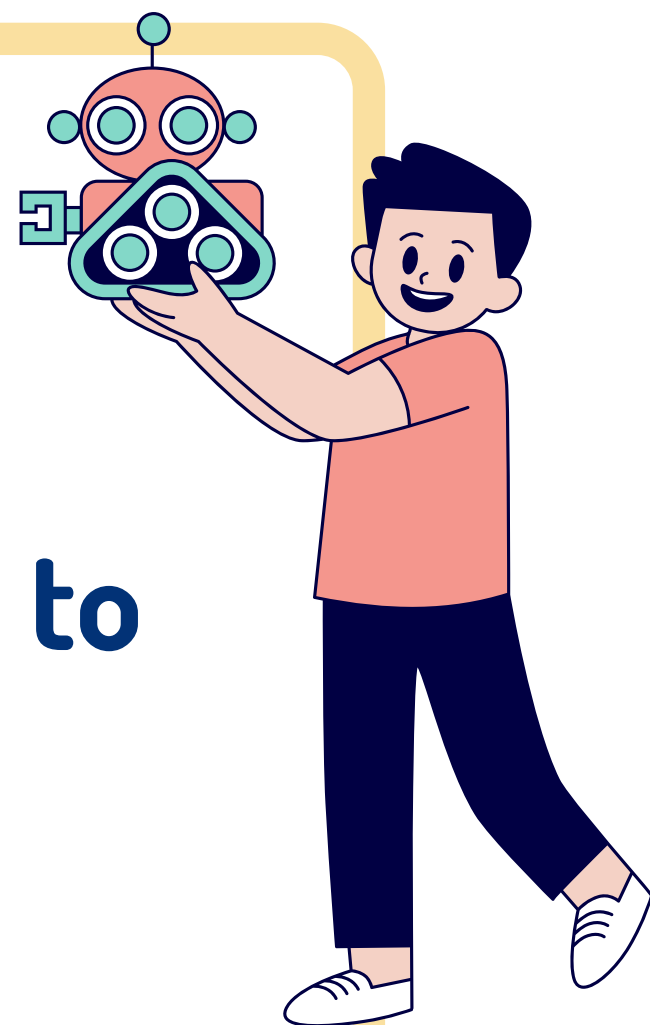
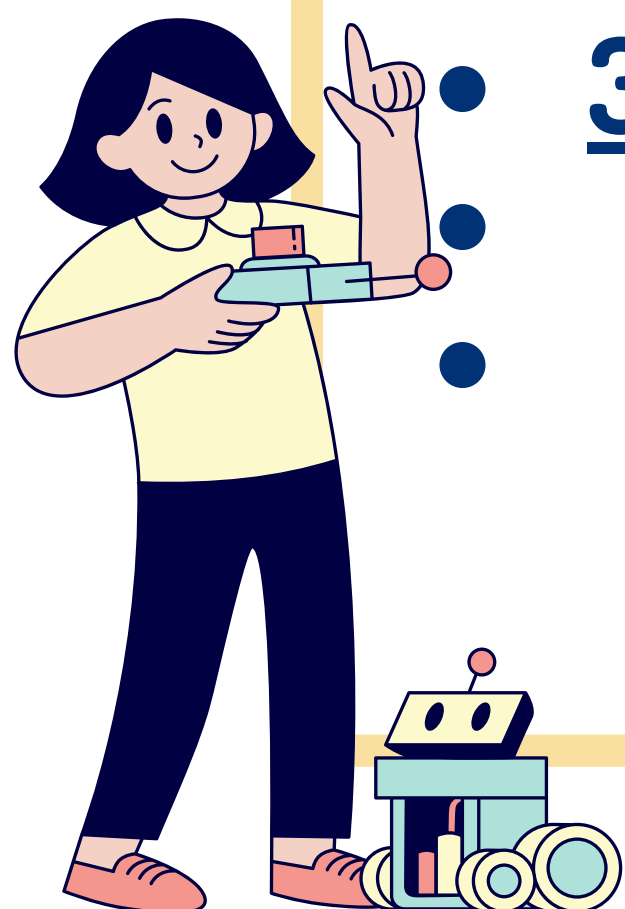
Name of Invention		
Problem <ul style="list-style-type: none">- What is the problem?- Who does it impact?	Research <ul style="list-style-type: none">- What resources did you use? Market <ul style="list-style-type: none">- Where or how would you market your invention? Improvements <ul style="list-style-type: none">- What improvements did you make and why?	Detailed blueprint <ul style="list-style-type: none">- List of materials- Labeled- How works
Solution <ul style="list-style-type: none">- How does your invention solve the problem?		

NOTE: Make sure you put your name, teacher's name and grade level on the back of your poster board.

Invention Convention Ideas

Please check out the following sources to give you some ideas for a Invention Convention project!

- [35 Amazing School Project Inventions...](#)
- [Invention Ideas for Kids](#)
- [Science buddies: Resources by grade level](#)



WHAT IS THE ENGINEERING DESIGN PROCESS?



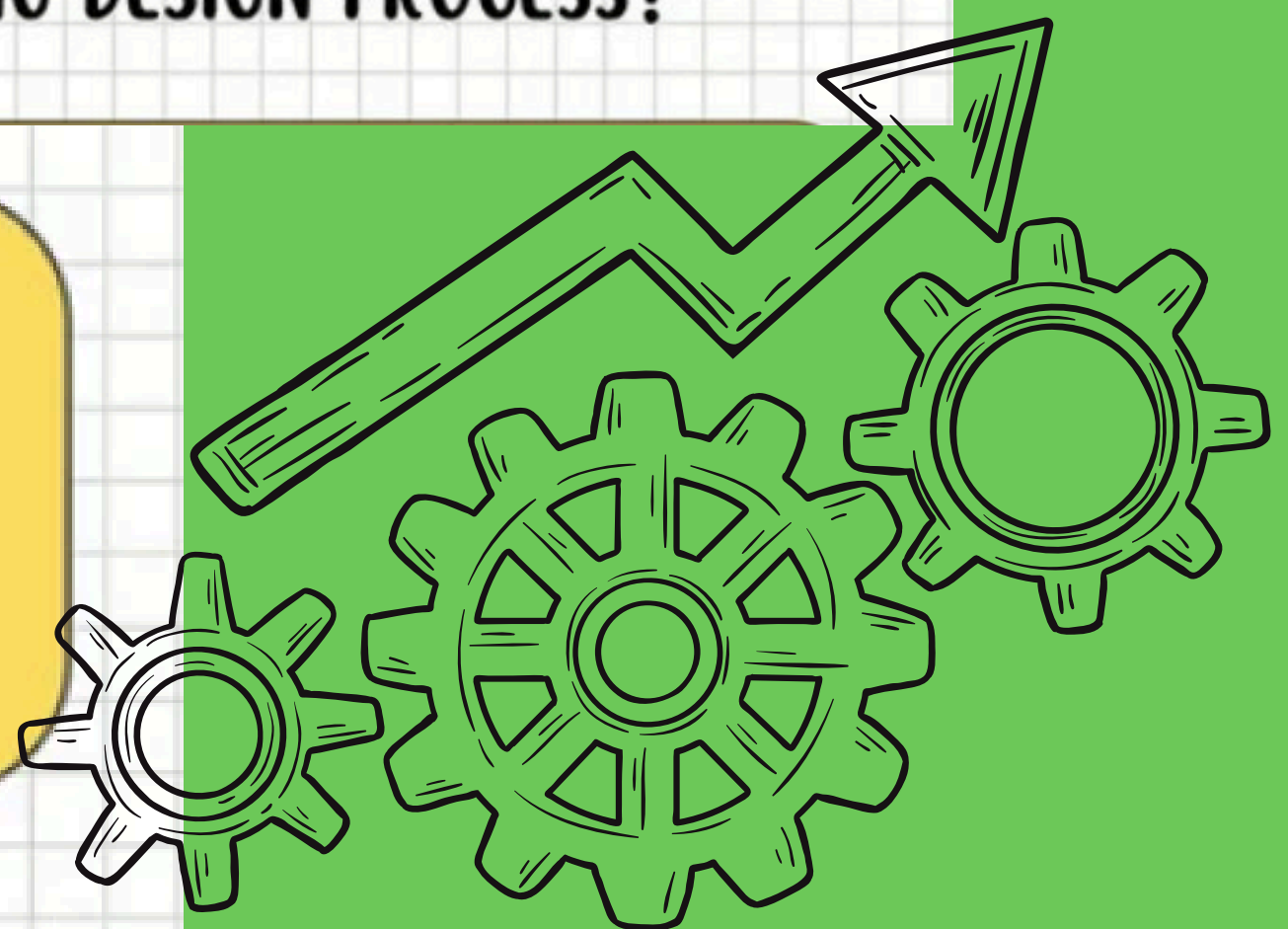
The Engineering Design Process consists of several steps that engineers use as a guide to solving problems. It can be applied to any problem to come to a solution, which is found through an iterative approach of research, trials, and tests.

WHAT ARE THE STEPS TO THE ENGINEERING DESIGN PROCESS?

ASK A QUESTION

The engineering design process starts when you ask the following questions about problems that you observe.

- What is the problem or need?
- Who has the problem or need?
- Why is it important to solve?



RESEARCH & IMAGINE

Think about ways you can solve the problem, and build a list of as many solutions as possible.

Research ideas, take notes, and explore all possibilities. Check for any previous solution attempts. Where did they fall short?

CREATE

Follow the plan and diagram to build the model or create the solution. Build and experiment until you have a working solution. Remember, it is ok to fail during this step.

PLAN & DESIGN

Use your imagination along with the facts to come up with a step-by-step plan for your prototype. Draw a diagram and gather needed materials.

TEST

Make sure your model checks all the basic requirements. If it's a physical structure, imagine all the different ways it could be used and plan your testing based on that. Make sure your model solves the problem by having others test it and gathering feedback.

IMPROVE

Make improvements to your prototype design to make it better. This may be the final step depending on your test results. Your solution either works or doesn't. If it works, look for ways to make it even better. If it's falling short in some areas, find ways to improve it.

