

# Middle School STEM Activity

**Subject:** Engineering

**Topic:** Engineering Design Process

## ***Objective***

Students explore and understand engineering design process concepts.

## ***Learning Outcomes***

- Understand engineering design process
- Develop critical thinking
- Apply STEM knowledge
- Collaborate with peers

## ***Materials***

- Notebook
- Markers
- Chart paper
- STEM kit
- Internet

## ***Activity Steps***

1. Introduce engineering design process concept.
2. Show demonstration or video.
3. Students perform activity.
4. Record observations.
5. Discuss results.

## ***Observation/Notes***

Observation	Notes

## ***Discussion Questions***

- What is engineering design process?
- Why is it important?
- Where is it used?
- What did you learn?

## ***Extension Activity***

Design a mini project using engineering design process and present.

## Engineering Design Process Diagram

Design

The diagram consists of a large light gray rectangular frame. Inside this frame, at the top center, is the title 'Engineering Design Process Diagram'. Below the title, centered horizontally, is a smaller light blue rectangular box. Inside this blue box is the word 'Design'.