1. Define a problem that addresses a need

2. Identify criteria, constraints & priorities

3. Describe relevant scientific principles and knowledge

4. Investigate possible solutions

5. Design and construct a proposed solution

6. Test a proposed solution and collect relevant data.

7. Evaluate proposed solution in terms of design and performance criteria, constraints, priorities and trade-offs.

8. Identify possible design improvements.
Introduction

Engineers use the engineering design process to build things and make changes in the world to meet human needs and fulfill human hopes, similar to the way scientists use the scientific inquiry process to extend human knowledge.

The engineering design process is one way to put science to work to solve problems.

This notebook represents the work of the student named on the front cover during a particular semester or trimester. Students record their work as they proceed through steps of the engineering design process while they explore how science can be used to solve practical problem.
Define a problem that addresses a need:

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Identify criteria, constraints and priorities:
Describe relevant scientific principles and knowledge:

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Investigate possible solutions:
Proposed Solution

Design and construct a proposed solution:
Testing the Solution

Test a proposed solution and collect relevant data:
Evaluate proposed solutions in terms of design and performance criteria, constraints, priorities and trade-offs:
Design Improvements

Identify possible design improvements:

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