

Identify the Problem

Practice

- 1: Defining problems

Problem

Examine Information Systematically

Practice

- 8: Obtaining, evaluating, and communicating information

Research

Prototype

Create a Model

Practice

- 2: Developing and using models
- 5: Using mathematics and computational thinking
- 6: Designing solutions
- 7: Engaging in argument from evidence
- 8: Obtaining, evaluating, and communicating information

Improve

Test

Solution

Improve the Model to Achieve Best Design

Practice

- 4: Analyzing and interpreting data
- 5: Using mathematics and computational thinking
- 7: Engaging in argument from evidence

Determine if Model Meets Criteria

Practice

- 3: Planning and carrying out investigations
- 4: Analyzing and interpreting data
- 5: Using mathematics and computational thinking

Solve the Problem

Practice

- 6: Designing solutions
- 8: Obtaining, evaluating, and communicating information