Brainstorm answers to the problem. Generate lots of ideas. Consider all solutions and select the best one.

Identify the problem and how it affects people. Think locally, nationally, and globally.

Sketch a diagram of the prototype. Create a list of materials and a procedure to build the prototype. Discuss the desired results.

Collect quantitative and qualitative data during tests of design. Compare results with expectations. Make needed changes for improvement.

Communicate results. Share the problem, design, data, and conclusions. Present findings.

Engineering Process

IDENTIFY

IMAGINE

SHARE

CREATE

DESIGN

TEST/IMPROVE

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What worked and what needs to change for success?

Identify the problem.

Brainstorm solutions.

Diagram the prototype.

List Materials ___________________________ Write out the steps. ___________________________

______________________________

______________________________

______________________________

Describe the outcome ___________________________

Test 1 | Test 2 | Test 3

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What worked and what needs to change for success? __________________________________________

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