

Solution Prototype/Model Research

Research other solutions that exist for the problem you identified. Describe them below. How will your solution be better than solutions that already exist or have been tried by others? How can you improve upon these solutions?

20 horizontal lines for writing.

Criteria

Describe the desired features of your solution. What will it do? How will it work? What features will it have? How does it eliminate the problem or make it better?

8 horizontal lines for writing.

Draw and label your prototype/model.

A grid area for drawing and labeling a prototype/model.

Constraints

Describe the limits you will face when making a prototype/model and testing it. What materials do you have available? How much time do you have? How much will it cost? What tools do you have access to for building a prototype/model? Can you reuse or upcycle materials that are available for free? What safety considerations should be considered?

Build It and Test It

Build a prototype/model of your most promising solution and test it. Describe your procedure for testing it below.

Independent Variable:	Dependent variable: _____ Units: _____				
	Units:	Trial 1	Trial 2	Trial 3	Trial 4

Did it meet the criteria? In other words, does it help solve the problem you identified? How?
