

Reflection

How would you find out what modifications could be made next in order to keep improving your design?

What would you modify next to try to keep improving your design?

What else could your design be used for? What other problems could it help solve?

got problems? let's solve 'em.

Engineer's Name _____

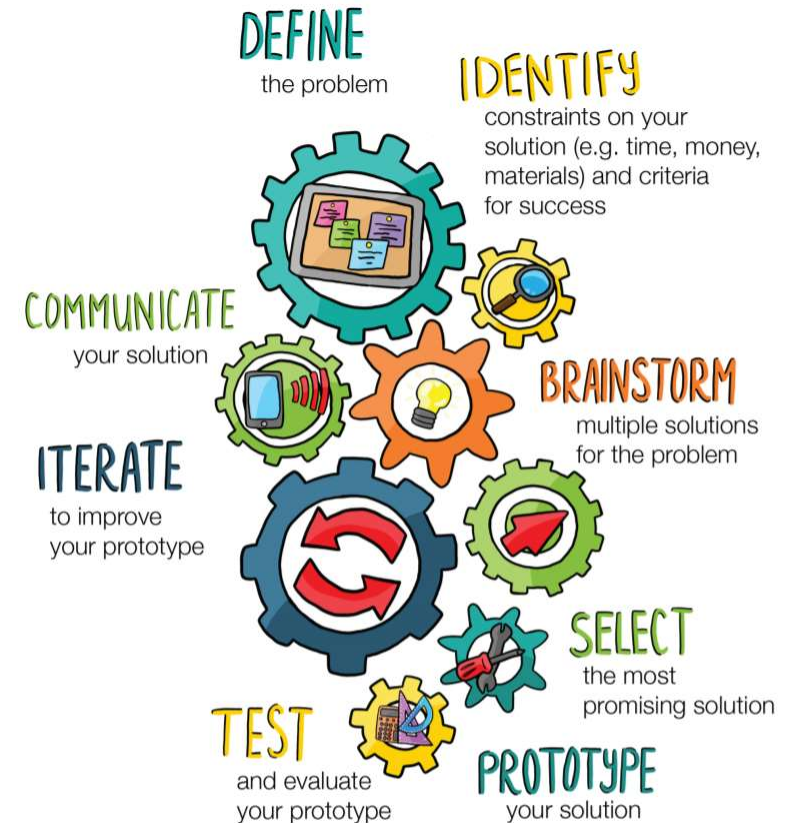


Image Source: <https://az.pbslearningmedia.org/resource/eg-design-process/et-design-process/>



DaNel Hogan – STEMAZing.org
Brooke Meyer and Sherrie Dennis – SARSEF.org

Notice Problems

Describe problems you notice that a person (could be you) or an animal or a plant has. This problem could be something that is difficult for them to do, puts them in danger, makes their day harder, or causes them to struggle. It could also be something that would make their life better – more fun, easier, happier, etc.

For each problem, identify who has the problem and describe what it is.

Who? _____

Problem _____

_____ STEM Solvable

Who? _____

Problem _____

_____ STEM Solvable

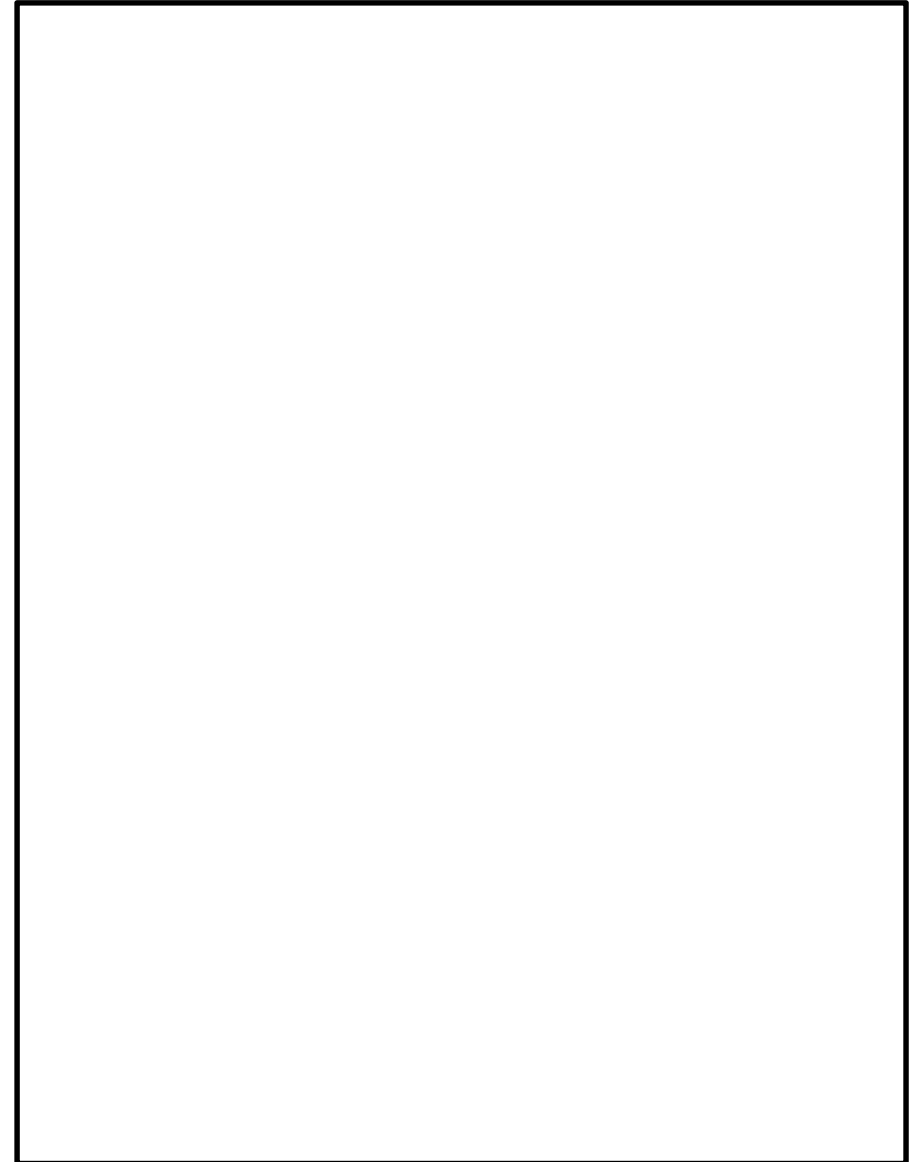
Who? _____

Problem _____

_____ STEM Solvable

Website Design for Product

Make a sketch of what the homepage for this product would look like. Be sure to include your product logo and slogan on the site.

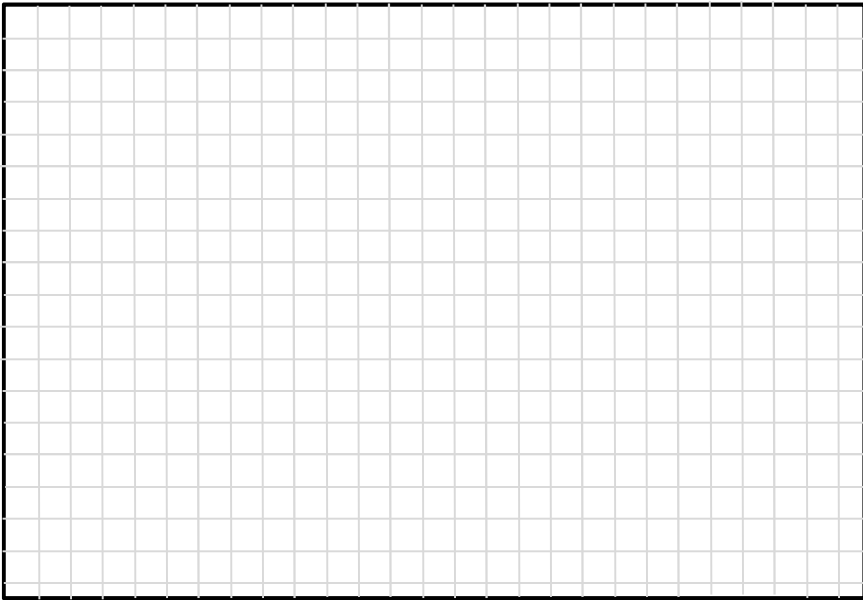


Marketing

Name of Product _____

Slogan _____

Company or Product Logo



Key Features _____

Notice More Problems

Who? _____

Problem _____

_____ STEM Solvable

Who? _____

Problem _____

_____ STEM Solvable

Who? _____

Problem _____

_____ STEM Solvable

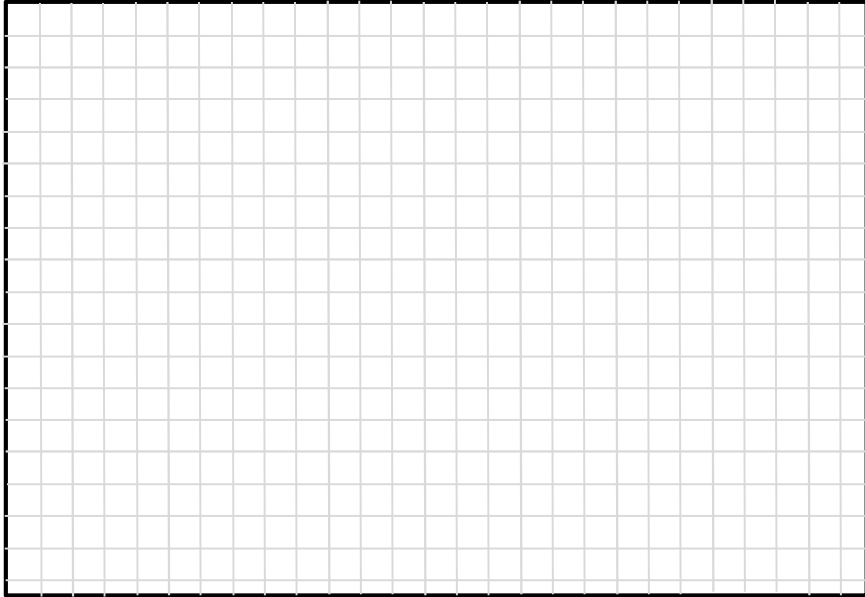
Who? _____

Problem _____

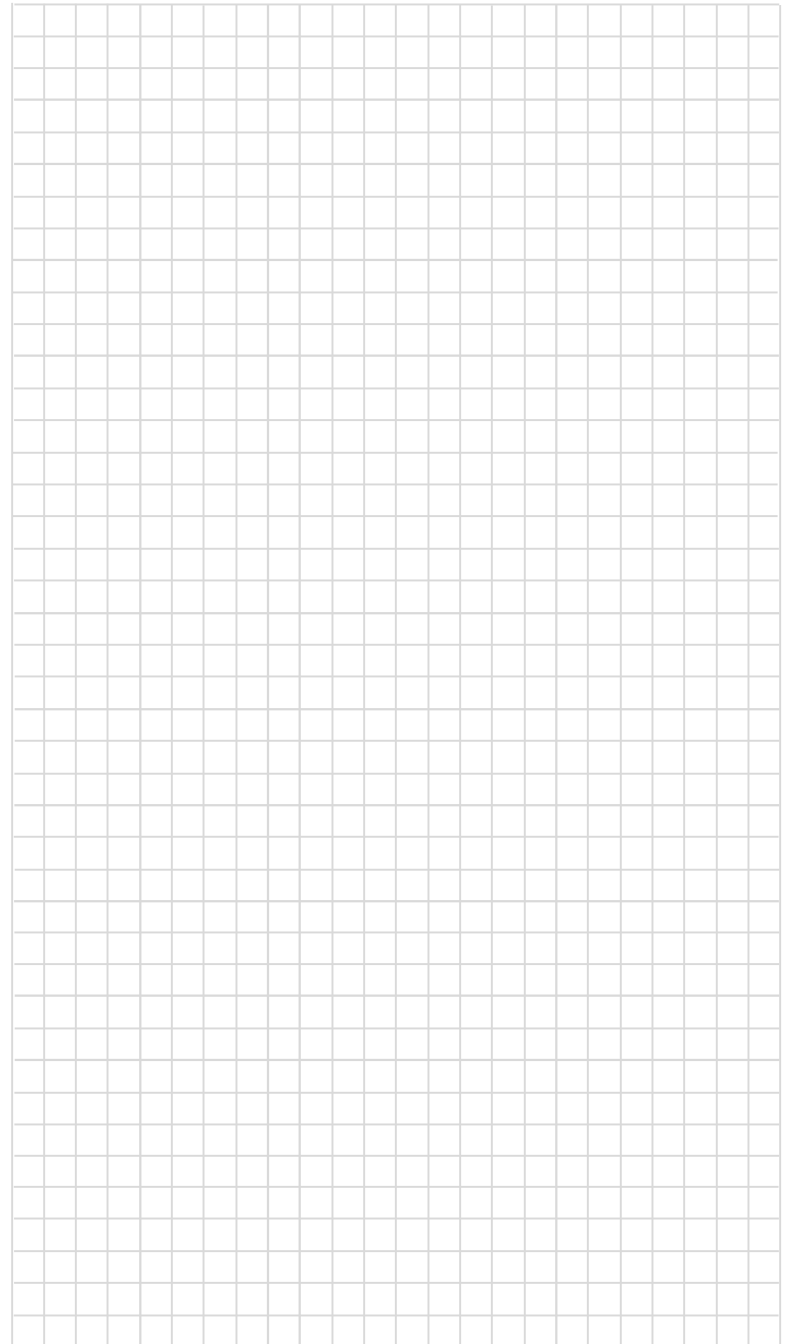
_____ STEM Solvable

Brainstorm Solution

Imagine a STEM solution for one of the problems you identified. Draw and describe the solution below. Don't worry about whether the solution seems possible or not. Just think of ways you could make life better for the person, animal, or plant.

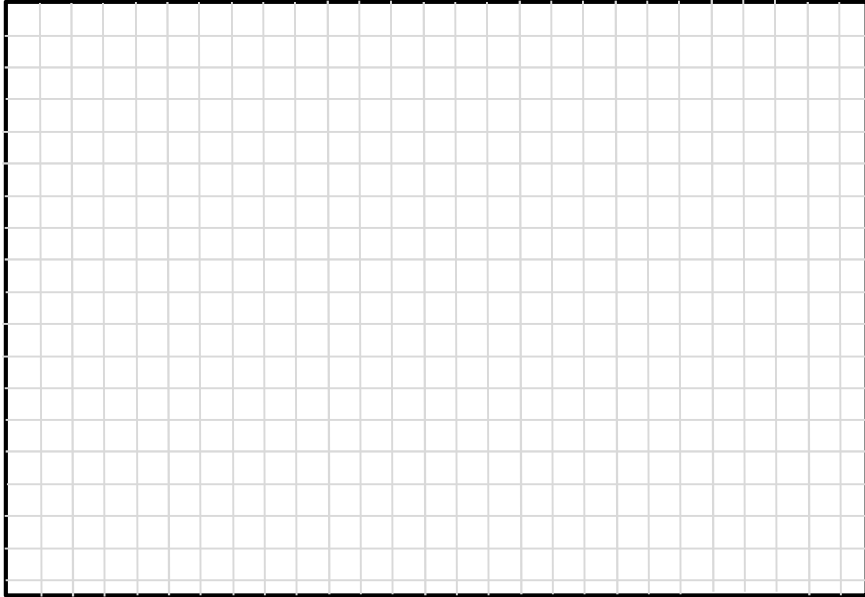


Draw and label final prototype/model.



Brainstorm Solution

Imagine a STEM solution for one of the problems you identified. Draw and describe the solution below. Don't worry about whether the solution seems possible or not. Just think of ways you could make life better for the person, animal, or plant.



Data Table

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

Prototype/Model is: Better / Same / Worse
(circle one)

Observational or Quantitative Evidence

From the test you did, describe either observational data or quantitative data to support your claim that the prototype model is better, the same, or worse.

Modification: Keep / Kick
(circle one)

