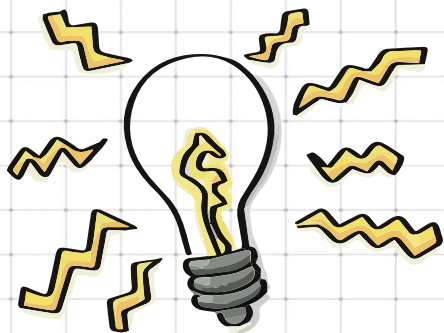
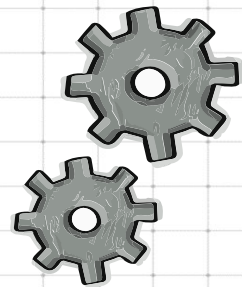
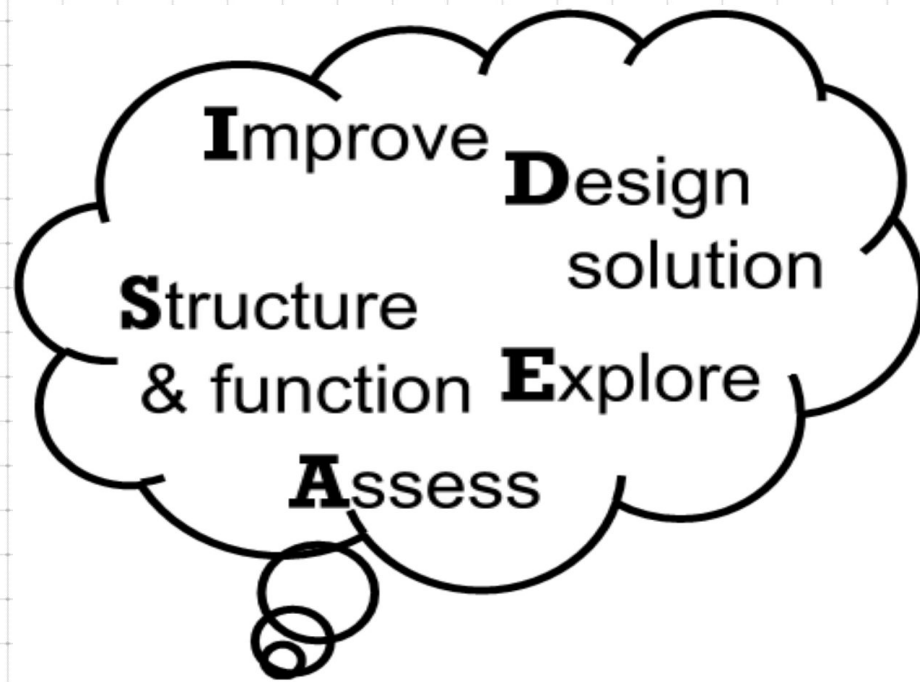
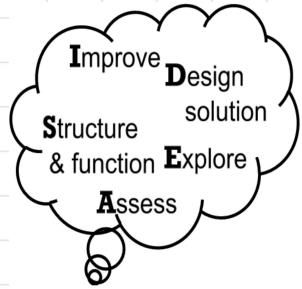




DaNel Hogan and Sherrie Dennis –STEMAZing.org





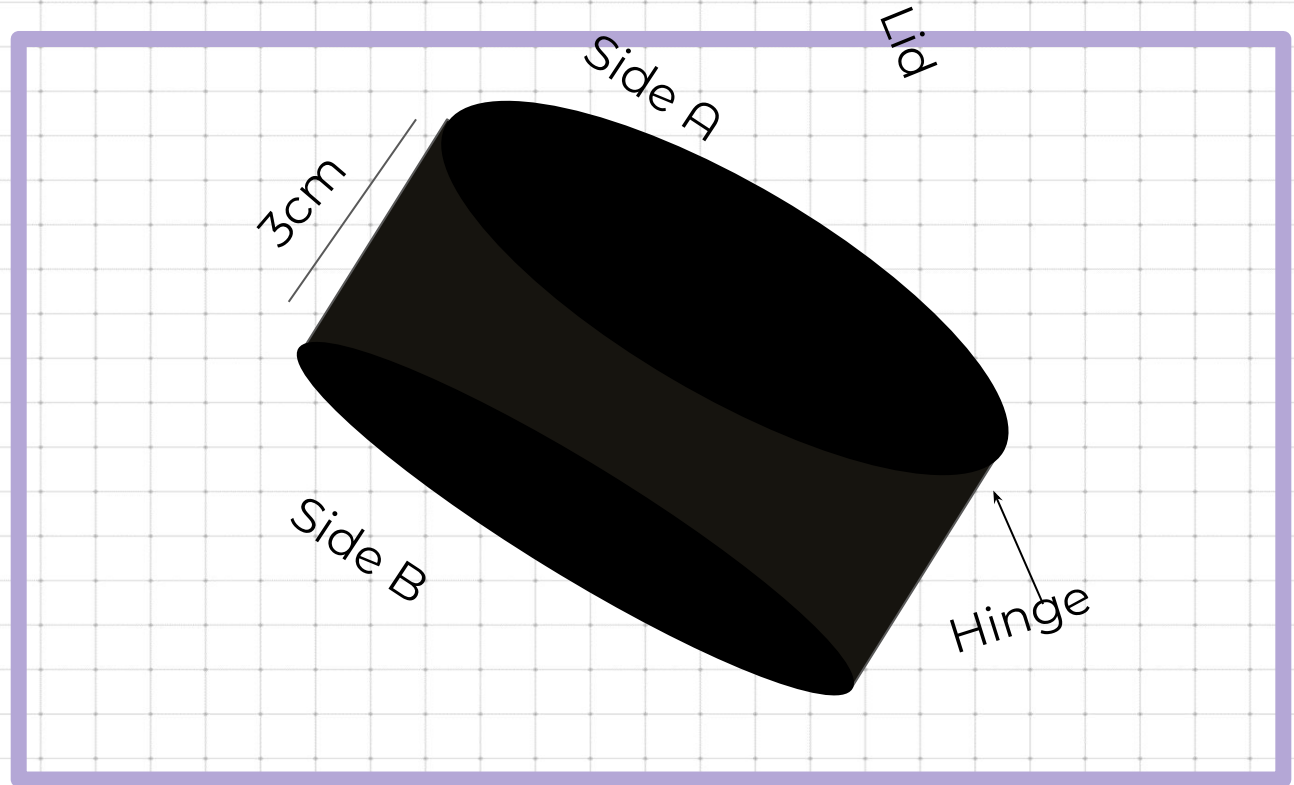
Add a Google drawing or picture and label original design. Detailed measurements are helpful.

Materials:

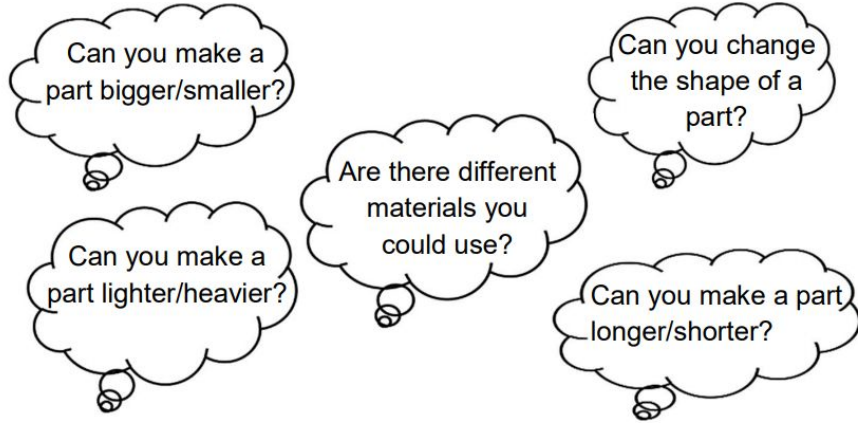
Any basic art supplies.

Paper, Cardboard, Clay
etc.

Engineering This: —



IDEAS for Modification 1

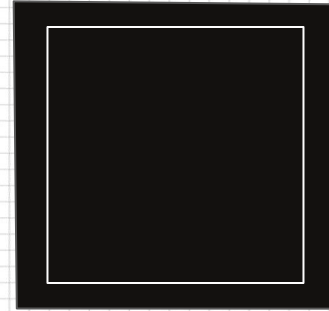


What IDEAS do you have for modifications?

I could possibly change the shape of the plate to a square, maybe. I still haven't decided what materials to build it out of. I could also, maybe change the volume/size.

Drawing with labels of modified design

Square?



Bigger?

???

Describe the modification made and why you picked it.

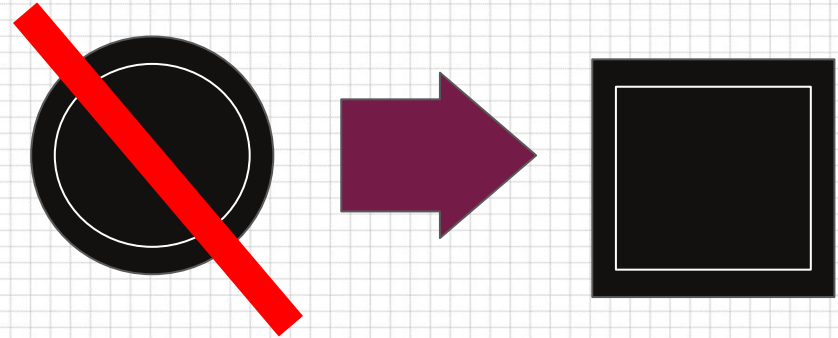
_The modification I landed on is to, change the shape, of this project. I landed on this because it was the only way to not sure-fire ruin the entire thing.

Performance is (highlight one)

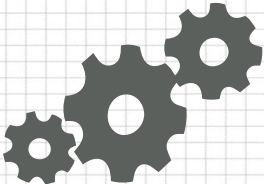
Better / Same / Worse

Evidence:

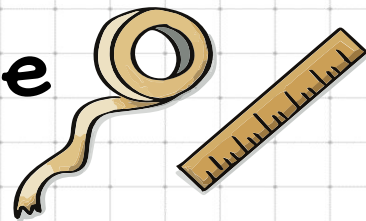
_I find the performance better because it is way easier to cut and build than a perfect circle.



Modification 1 (highlight one) Keep / Kick



Fellow Engineer or Customer Critique



Fellow Engineer or Customer Critique: Let another engineer or a customer use your current design. Either let them record or you can record their feedback to the following questions:

- What do you like about this design?
- How could this design be improved?
- Are you having any troubles using it? If so, what is frustrating about using the design?
- Do you have any other suggestions for modifying this design to make it better?
 - How could it be more fun?
 - How could it be easier to use?
 - How could its performance improve?
 - What could be done to make it look incredible or sleek or cool?



Feedback:

I like that it does not take up much room. It is very convenient to use, but if you don't finish everything on your plate, it will make a mess when you turn it over. I do like the new square shape. I also hope that there is a way to make it easy to clean.

By: Idealist/Mother

IDEAS for Modification 2

Can you use less expensive materials?

Can you make a part wider/narrower?

Can you make a part stronger/weaker?

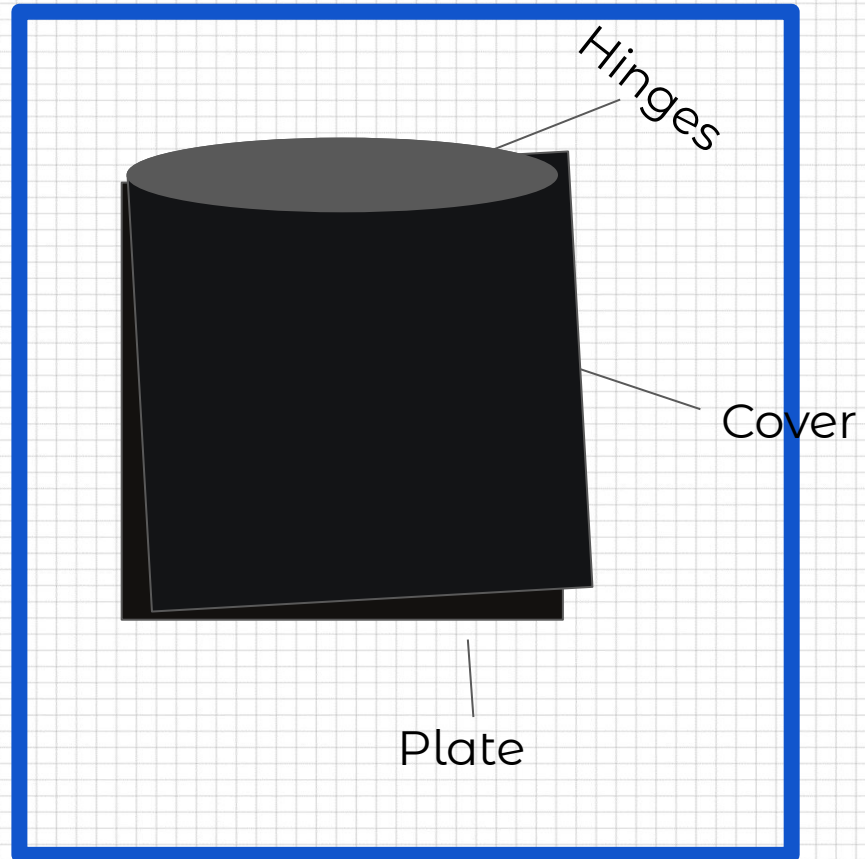
Are there different materials you could use?

Can you add a part?

What IDEAS do you have for modifications?

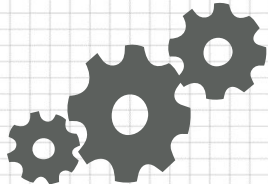
_Well from what my idealist said on the last slide, I should add some sort of cover. I decided i should attach the cover with hinges, so that it could just flip.

Drawing with labels of modified design



Describe the modification made and why you picked it.

_Well my idealist told me I needed it and I see why because...----->



Performance is (highlight one)

Better / Same / Worse

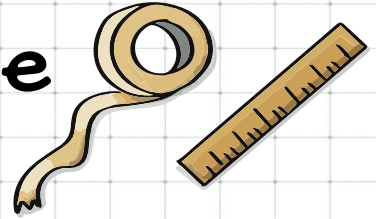
Evidence:

_If you don't have a cover when flip the plate over leftover scraps will get everywhere.



Modification 2 (highlight one) Keep / Kick

Fellow Engineer or Customer Critique



Fellow Engineer or Customer Critique: Let another engineer or a customer use your current design. Either let them record or you can record their feedback to the following questions:

- What do you like about this design?
- How could this design be improved?
- Are you having any troubles using it? If so, what is frustrating about using the design?
- Do you have any other suggestions for modifying this design to make it better?
 - How could it be more fun?
 - How could it be easier to use?
 - How could its performance improve?
 - What could be done to make it look incredible or sleek or cool?



Feedback:

I like the simplicity of the plate. It will not take up much more space than a traditional plate. It could be improved by having the magnets inset and sealed, to make cleaning easier. Things can leak around the cover, making it harder to use with sauces or dressing. One suggestion would be to have an airtight, silicon cover.

By: Idealist/Mother

IDEAS for Modification 3

Will adding color make it more appealing?

Can the appearance be changed to make it more appealing?

Are there different materials you could use?

Did you notice something someone else tried that you could use?

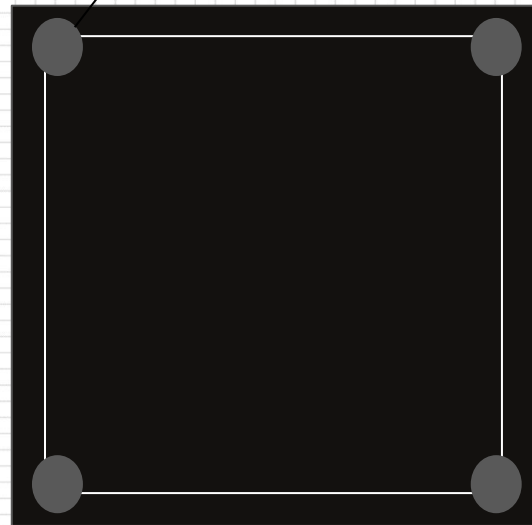
Can you eliminate/replace a part?

What IDEAS do you have for modifications?

I think that I should change the cover from hinges to magnets. I say this because I could pain my plate with magnetic paint and it is way easier.

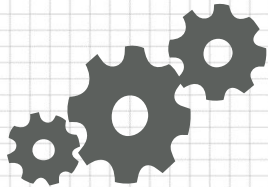
Drawing with labels of modified design

Magnets



Describe the modification made and why you picked it.

_I made this modification because hinges are really hard to get/install and magnets are generally more subtle.

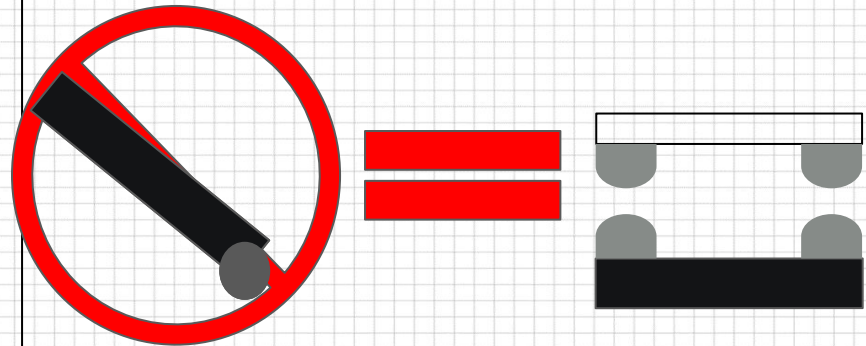


Performance is (highlight one)

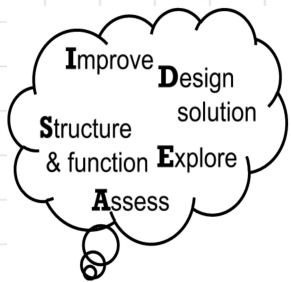
Better / Same / Worse

Evidence:

_Some evidence I have is I looked up, "how to install hinges," and got, measure and mark their position, chisel shallow mortises so they sit flush, drill pilot holes, and screw them securely into place



Modification 3 (highlight one) Keep / Kick



Materials:

- Wood, glue, plastic in addition to whatever you can find at a hardware store.

Final Design

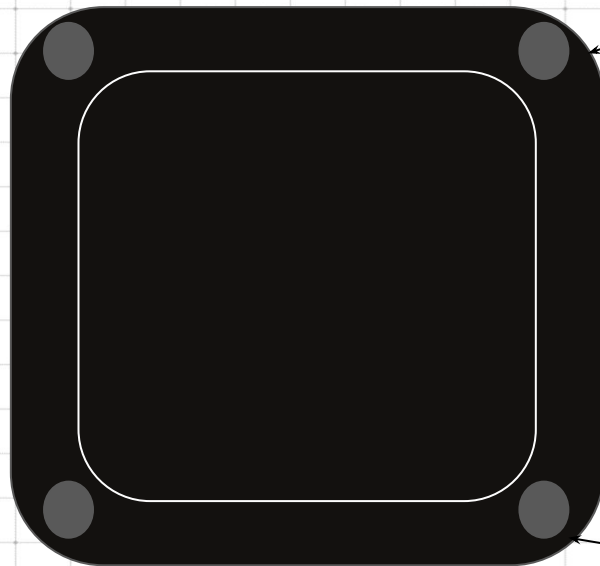
Be sure to label parts and when possible, indicate dimensions (with units).

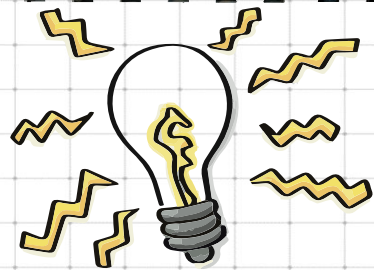
Same on other side*

Magnetic Paint

Square-ish

Magnets





More **IDEAS**: What else? Why else? When else? How else? Who else?

More **IDEAS** here:

I kinda would like to follow up with this next year and make a double sided spoon. If I go through with this idea and it a product I would spend WAY more time on it, possibly team up with big brands to improve it, and/or make it lighter and out of different materials or variants. I can't stress enough how much stronger magnets would have helped so if this becomes a thing, that is a necessity.

