

Jewelry Mirror Cabinet

Tori Mcguire



Problem Definition: Jewelry Mirror Cabinet

PRIMARY FUNCTIONALITY:

- ▷ Hanging mirror
- ▷ Mounts onto door
- ▷ Holds items inside
- ▷ Frees up clutter

SECONDARY FUNCTIONALITY:

- ▷ Opens like a door
- ▷ Latch that keeps it closed
- ▷ Many shelves
- ▷ Makes room look better

THOUGHTS:

- ▷ Making sure it's safe and doesn't fall
- ▷ Measurements have to be spot on
- ▷ Would be useful to have



Research of Existing Solutions!

Jewelry Mirror Cabinet Storage

FUNCTIONALITY:

- ▶ Holds Jewelry and other small things on inside while on the outside it serves as a hanging mirror.

- | | |
|---|--|
| <ul style="list-style-type: none">▶ Again holds smaller items and gives them a home▶ Hangs off of door▶ Not too bulky▶ Color | CONS: <ul style="list-style-type: none">▶ Is expensive▶ Not the exact style I want▶ More details than I would add to mine |
|---|--|

TAKEAWAYS:

- ▶ I won't need to add as much detail for the jewelry part for my design
- ▶ Would want to change the design of it
- ▶ A good options to use for guidance



Jewelry Mirror Cabinet Storage

FUNCTIONALITY:

- ▶ Holds Jewelry and other small things on inside while on the outside it serves as a standing mirror.

PROS:

- ▶ Holds some things / gives jewelry a home

TAKEAWAYS:

- ▶ I don't want my design looking like this
- ▶ It's a cool design but I won't be getting the reason I'm making out of it

CONS:

- ▶ Cheaper than the one before but still expensive
- ▶ It's not hanging
- ▶ Takes up space on floor
- ▶ Not enough space for things other than jewelry



Jewelry Mirror Cabinet Storage

FUNCTIONALITY:

- ▶ Holds Jewelry and other small things on inside while on the outside it serves as a hanging mirror.

PROS:

- ▶ Again holds smaller items and gives them a home
- ▶ Hangs off of door
- ▶ Not too bulky
- ▶ Color
- ▶ Has a lock
- ▶ Holds a good amount of things

CONS:

- ▶ Price is in the middle of the last 2
- ▶ The mirror is the whole front

TAKEAWAYS:

- ▶ I don't like the look of the whole front as a mirror
- ▶ I like the layout on the inside
- ▶ Won't need to add another mirror on the inside



Takeaway Summary

I couldn't find the exact mirror cabinet that I wanted to make, but I think a mix of 1 and 3 are what I'm leaning towards.

Standing mirror cabinets are not going to be an option for me. I don't really like the look of it and I want my mirror off the floor.

I think I should still look around for more options so I know exactly what I want to create.





Next Steps !

Tori Moore

- Primary functionality (what it does)
 - Holds small items (beauty products)
 - Gets mirror off floor (saves space)
 - Clears desk space (more space for school)
 - Hook that holds door closed

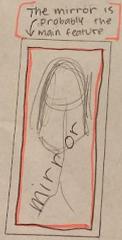
Notes

- I think it will make my room look better.
- I need to gather all things I need + make sure I have everything.

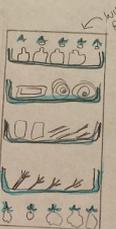
Constraints:

The size: 4'2" in height by 1'2" wide (going over the mirror)
Weight: I feel like its gonna be pretty heavy because it is out of wood.
Units: it doesnt need to hold an exact amount of things just a good amount... more than 20 things.
Materials: Prototypes will be made out of supplies from school. Final product will be made out of wood and more handy materials.

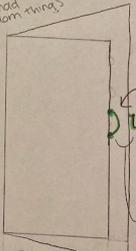
KEY FEATURES



The mirror is probably the main feature



will hold random things



The other key feature is the hook. In the situation, the hook lets the door closed and not open all the time.

lose hook easy open + close

Second main feature is the storage.

These will be want lets it hang on door!

Jewelry Mirror Cabinet Storage

Prototype 1

Something I learned:

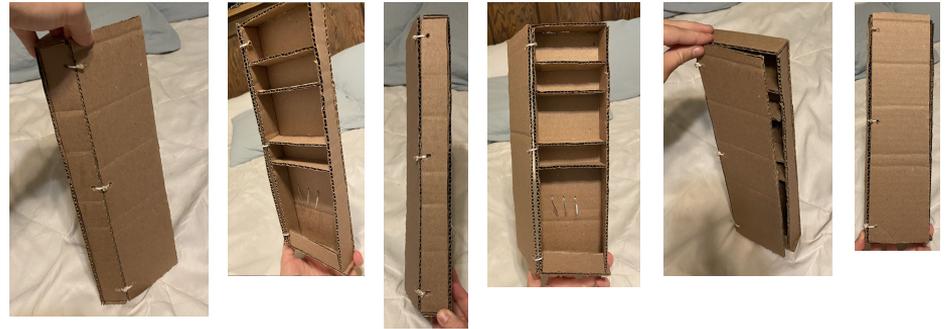
- ▶ I learned that maybe I should re measure the size for my final piece because my prototype sizing looks a little off.

Something I liked:

- ▶ I liked the depth, I think it will be the perfect size. Not too much but not too little

Something I will not do again:

- ▶ I will definitely not use a whole paper clip for the hooks again. Maybe find a way to cut them and make them look more to scale.





! CHANGES !

New Design

My thoughts

- ▷ Body size changes
- ▷ I've realized that the size I wanted would be too big and cost way more than expected
- ▷ Mirror changes
- ▷ Instead of my mirror being almost the same size as the body, i've changed it to a circle mirror that is way smaller.

Prototype idea

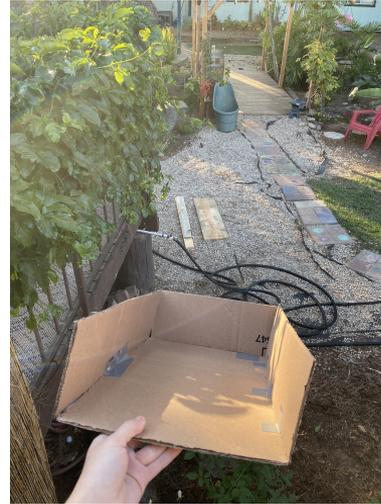
- ▷ Just make the outline for wood sizes instead of making whole prototype
- ▷ Also make it to scale





Final Design

Draft / Almost Final



Draft / Almost Final

▷ KEY FEATURES

- ▷ Mirror
- ▷ Hinges
- ▷ Magnet

▷ LIKED

- ▷ How the door stays closed
- ▷ How it's small enough to put on desk

▷ DIDN'T LIKE

- ▷ Nothing really
- ▷ Possibly the placement of the mirror

▷ NEXT STEPS

- ▷ Draw on the box
- ▷ Maybe Paint
- ▷ Maybe add walls so the items are more in



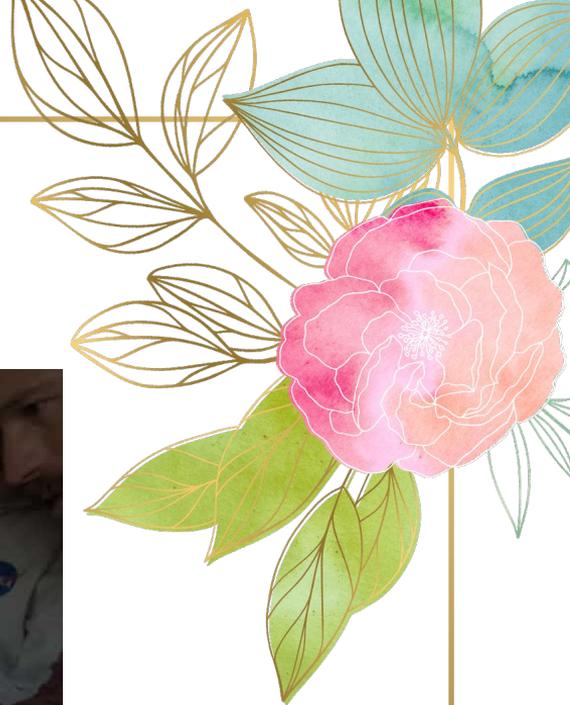
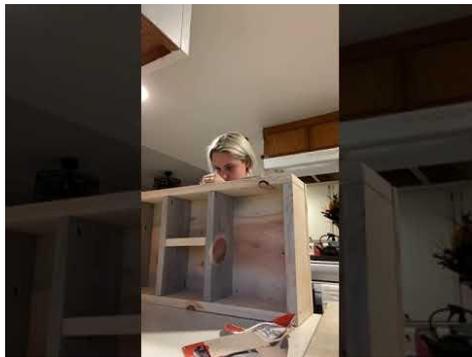
Sanding



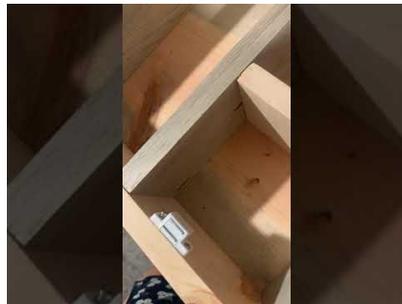
Glue + Nails



Hinges Installation



Magnet Installation



Mirror Installation





Final Iteration

Iteration 1: The door

I chose to focus on this area because:

- ▶ If the door isn't lined up right, then the positioning is not correct causing it to look off. Its one of the main parts of my piece so it needs to be as perfect as possible.

My approach:

- ▶ To make sure all measurements were correct
- ▶ Took my time lining it up and adding the hinges

Results:

- ▶ After doing everything right, it set up perfectly which made the door work just right.



Iteration 2: The hinges

I chose to focus on this area because:

- ▶ This is what makes the door stay connected and able to open and close. You want to make sure you space the hinges out so its even and opens smoothly.

My approach:

- ▶ Measure the correct space between the both of them
- ▶ Made sure to keep testing it before screwing it in completely.

Results:

- ▶ After doing everything right, it set up perfectly which made the door work just right. The hinges didn't catch onto themselves which means they were laid out and done correct.



Iteration 3: The final details

I chose to focus on this area because:

- ▷ It is what pulls my whole project together. Its the painting and presentation which will make it look better.

My approach:

- ▷ Figure out what I wanted to paint
- ▷ Did two different paintings before deciding which one to do.

Results:

- ▷ After doing the painting I think it looks pretty cool. Its simple but not too simple which I like.





Project Functionalities

Primary functionalities

Human Operated:

- ▶ Meaning you open it close it yourself as well as put everything in yourself.

Magnet lock:

- ▶ The door stays closed by a magnet, you then open it by pulling it a bit.

Stores items:

- ▶ Gives homes to items that are just laying around

Hinges:

- ▶ Keeps the door connected to the box allowing it to open and close.



Secondary functionalities

Easy to put up:

- ▶ Its not super big, so it can be set anywhere in my room and still look fine.

Front Mirror

- ▶ Let's you see yourself if you need to look in a mirror real quick.

Storage amount:

- ▶ There is a good amount of space in the inside allowing it to hold quite a few things.

The painting:

- ▶ Brings live to the box.





Concluding thoughts

Project reflection

Aspects of my project that I like:

- ▷ The painting
- ▷ The mirror
- ▷ How it has just the right amount of space inside

Aspects of my project that were difficult:

- ▷ Lining up the screws to make sure everything set perfectly.
- ▷

What I would do different next time:

- ▷ Have a bigger mirror
- ▷ Find a way to get it to hang somewhere.

