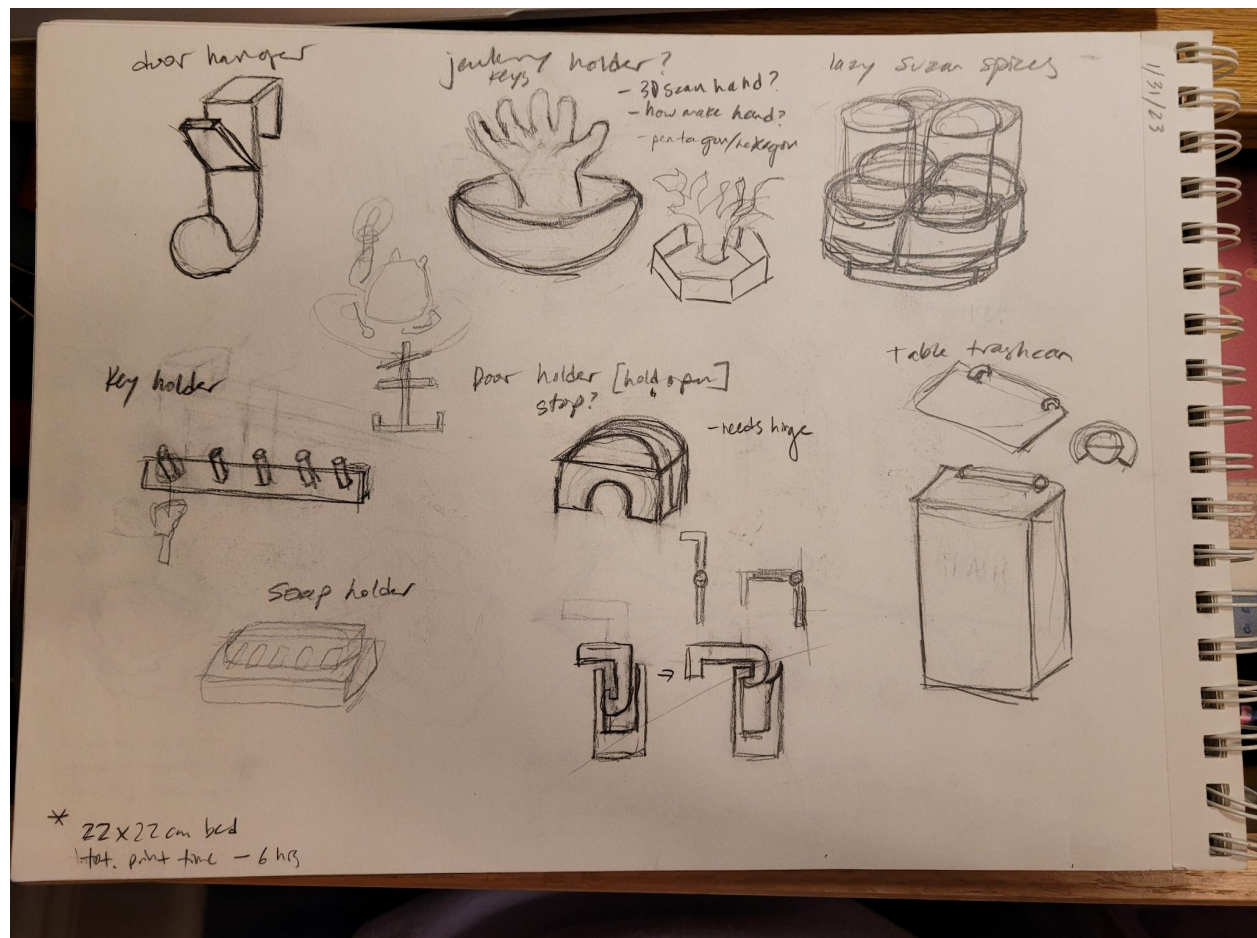


Kelsey Cao
Unit 2 Practical Object

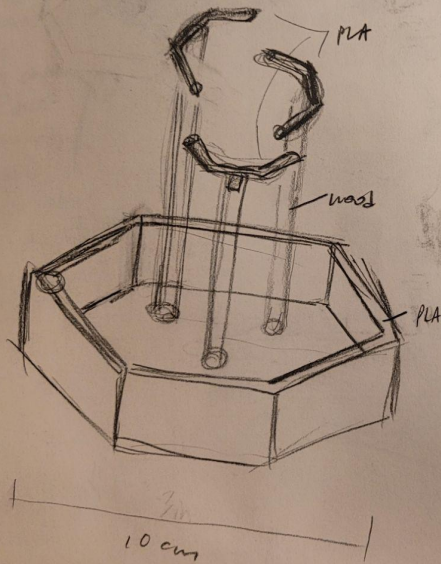
Practical Object: Jewelry dish

Sketches:

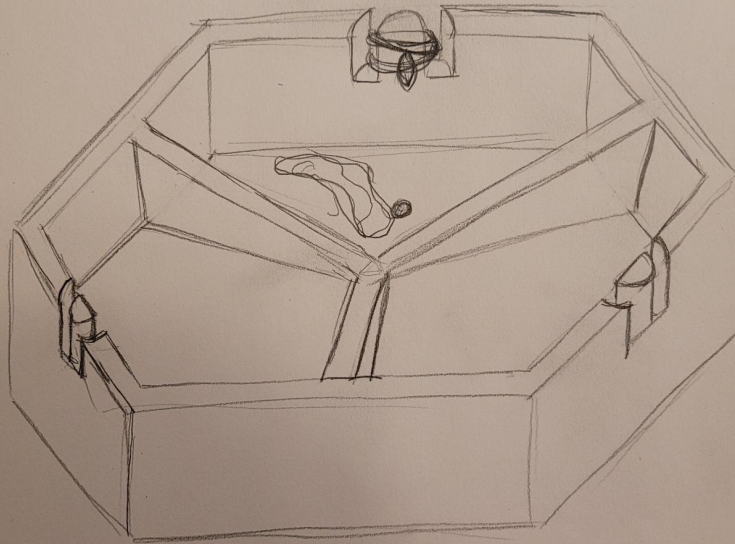
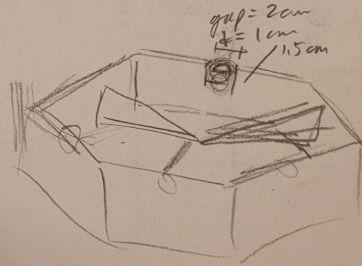
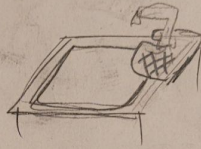
Below are some ideas I had while brainstorming a practical object. This included a door hanger, a lazy susan for my spices, a key holder, a door holder, a table trash can, and a kitchen sink pan to collect food scraps. I decided on a jewelry holder in the end because I wanted something that would hold the necklaces, earrings, rings, etc. sitting randomly on top of my desk.



Jewelry holder



Kitchen sink drain



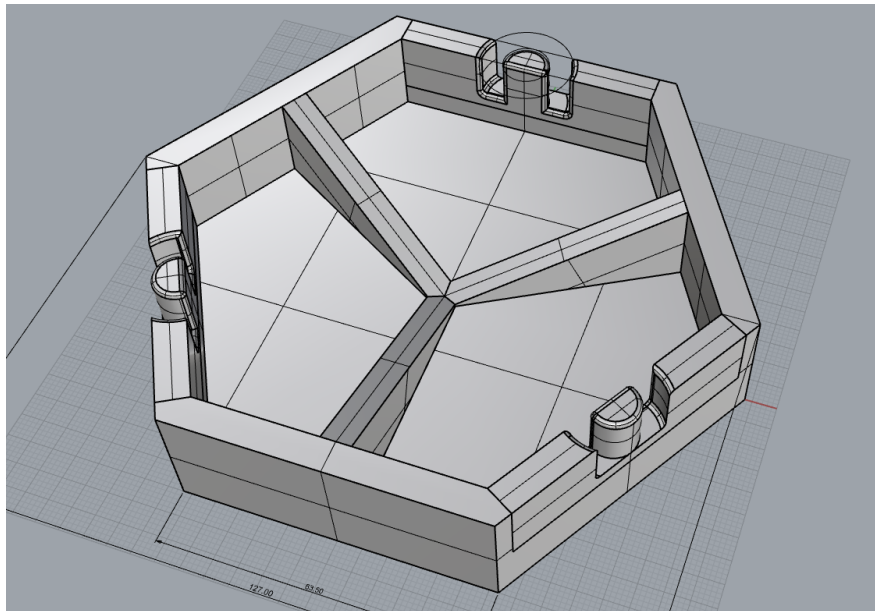
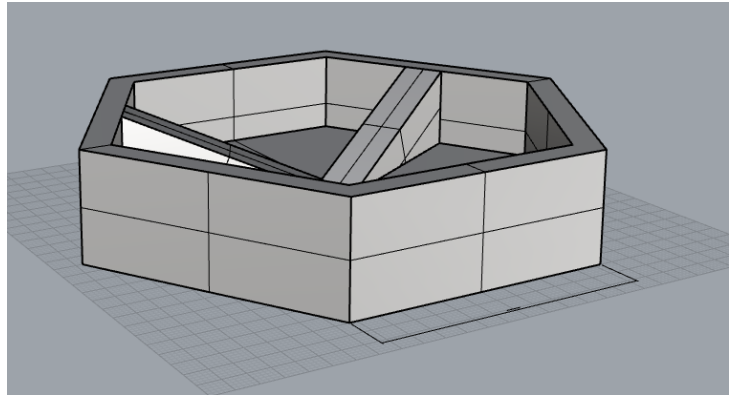
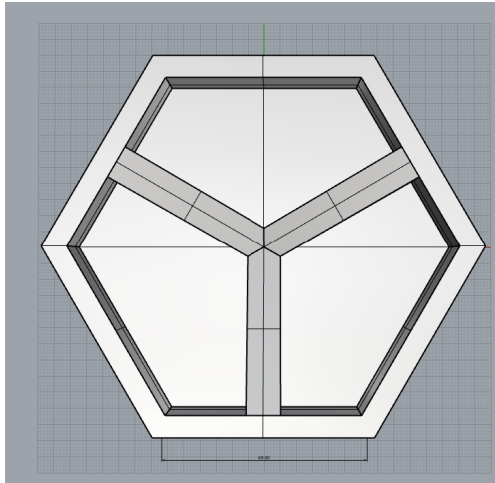
Inspiration:



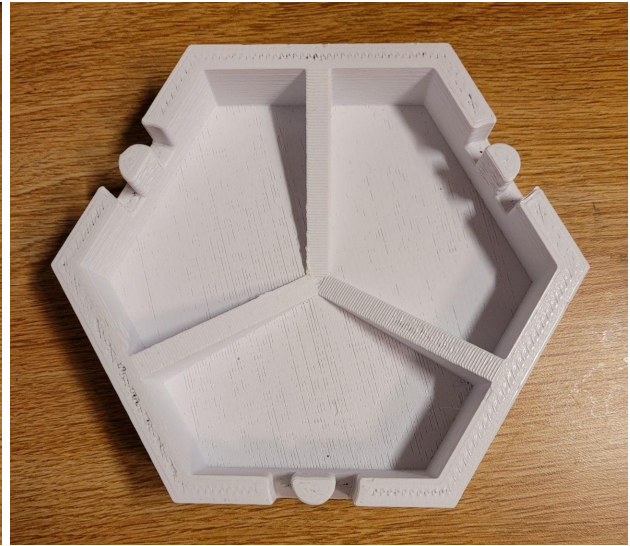
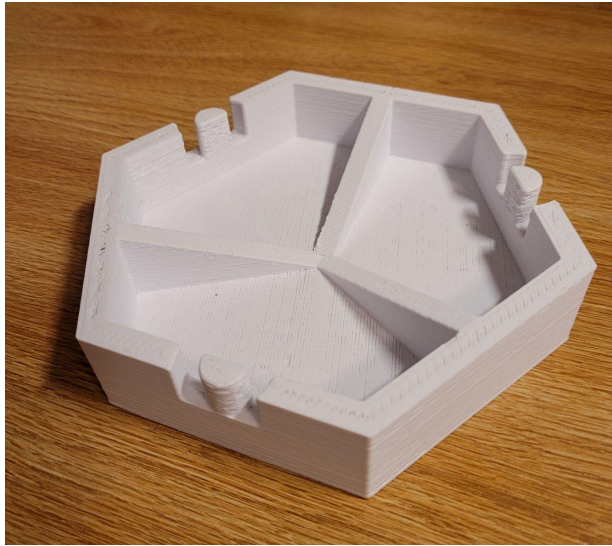
I googled “jewelry holder”, getting many product recommendations. Originally, I wanted to have a hand that would hold the jewelry like the one pictured above and in my sketch. But then I saw a design with 3 vertical posts holding necklaces at different heights which I really liked. I drew a sketch (pictured above) with the 3 posts and hexagonal base. The plan was to 3D print the base and leave holes to insert wooden posts. In addition, I looked at jewelry dishes, which were shaped more like bowls or small plates. However, I decided on a more flat and open design to sit on my desk and not take up too much space similar to my sketch pictured in the photo above at the bottom right.

Prototypes:

On Rhino, I drafted the general shape I wanted my object to be which was a hexagon. Then I split it into 3 sections with triangular edges. After getting the basic shape down, I altered the height and thickness of the dividers to make more space to hold jewelry. I also added three circular cuts into the wall of the hexagon to hold rings which can be seen in the final piece.



Final Piece:



My final object was printed on a 1mm nozzle printer and completed in about 5 hours. Because I had some more print time using the 1mm nozzle printer, I scaled it up to 125% of the original design to make it larger. There was some stringing on the piece and gaps within the layers, however, the general shape was printed successfully. I am satisfied with how the print turned out and how the white background brings out the color of my jewelry!