

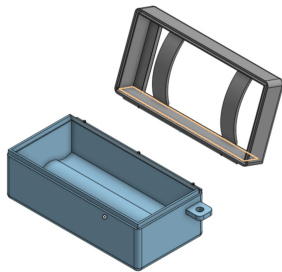
Documentation for week ending: November 5

Thursday, October 29:

- Brainstorm additions to waterproof box:
 - Clear top
 - Plexi-glass top
 - Speaker
 - Removable pieces to be dried
 - Better latches
 - Key ring to hang from backpack/belt loop
 - Handles
 - Customizable portion of box
- Consider final materials for final product (not actually being made)
 - Aluminum
 - Plexi-glass
 - Metal latches

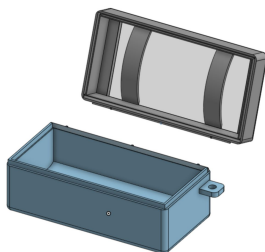
Monday, November 2:

- CAD addition to waterproof box
 - Key ring tab
 - Plexi-glass top
- Made additional CAD file that had a blank spot on top of the box where I will fix the plexi-glass section to



November 2, 9:28

- Made a separate CAD file with all pieces separated to easily be able to print them all and put them together myself



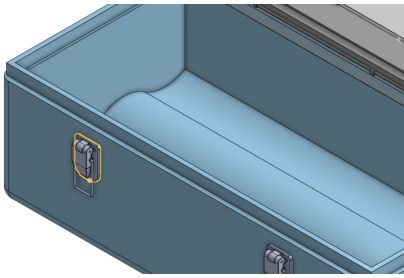
November 12, 9:44

- Created dimensioned drawing of important separate parts to aid me in creating my prototype
- Ensured that my tongue and groove pieces would fit into each other if 3D printed in real life

Thursday, November 5:

- Began looking over final presentation rubric
- Looked a little into social value
- Created final latches

- Downloaded latches from website, had to CAD a few aspects of it that I could not shrink to scale
- <https://grabcad.com/library/big-latch-1>
- Added latches to assemble so that they could interact with each other



November 5, 9:54

- Can't get assembly to move how I want it, only animate itself in the panel on the left
- Affixed the latches to the sides of the box and copied the latch so that there are two, and it is more watertight

Monday, November 9:

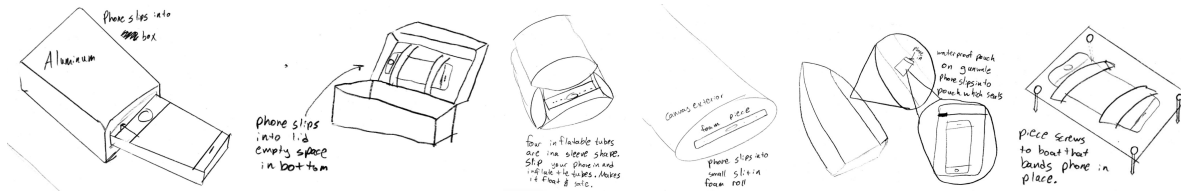
- Researched market potential
 - JOTO Waterproof Phone Pouch
 - Uses PVC material with a clear plastic on front
 - Includes polyester lanyard
 - Has a snap and lock access to keep water, sand, and dirt out
 - Fits phones up to 6.8"
 - 2 x .25 x .25
 - 1.76 ounces
 - Atwood Waterproof Boaters Dry Box
 - Durable plastic construction
 - O-ring inside lid
 - Flip-up lid Lift-out tray
 - Plastic on plastic contact for sealing
 - 15 x 8 x 10 in.
 - 2 pounds
 - Pactrade Marine Locking Boat Glovebox
 - Made of ABS, easily mountable
 - Glove box comes with non magnetic lock and latch
 - Plastic on plastic contact for sealing
 - 14 x 8 x 5.9 inches
 - 1.95 Pounds
- Worked on Value Proposition
 - For boat owners/kayakers
 - Mine would have tighter seal, inside padding, phone holster, buoyancy



Thursday, November 12:

- Worked on Social Value Slide
 - Aluminum casing:
 - Little danger to environment
 - Does not acidify in soil with pH of 5 or less
 - Foam Inserts:
 - Non-toxic treatment and manufacturing
 - Little negative effect on environment

- Elastic Straps:
 - Organic Cotton
 - Natural Rubber
 - Little negative effect on environment
- Researched Market Potential
 - 1/10 US households owns a boat
 - In 2009, 75 million OR 32% of adults went boating
 - This already increases my target market from just boaters
- Transformed All of my drawings to electronic renderings as shown below:



November 12, 9:36

November 12, 9:36

November 12, 9:36

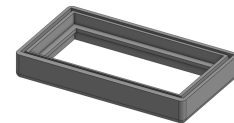
November 12, 9:36

November 12, 9:37

November 12, 9:37

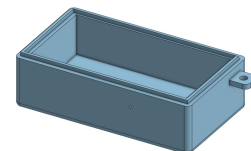
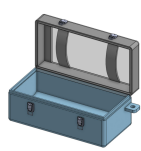
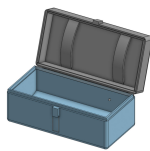
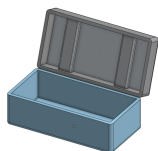
Monday, November 30:

- Deconstructed my Box and removed pieces that I will make out of materials
- Downloaded separate parts as STL files and sent them to teacher printing
 - Began printing
- Made slides about iterations, included photos



other

for



October 16, 10:12 am

October 22, 9:56 am

November 16, 11:12 am

November 30, 10:02 am

Monday, December 7:

- Went to post office to check for box
- Edited slideshow
- Checked hardware store for piano hinges



Rannb Toggle Latch Mini Size Stainless Steel Latch Catches Clamp for Toolbox, Cases, Chests - Pack of 10

Brand: Rannb
 4.5 stars (137 ratings)
 Amazon's Choice for "small latches"

Price: **\$8.99** Prime FREE Delivery & FREE Returns

Get \$1.25 off: Pay \$0.00 upon approval for the Amazon Business Prime Card. Terms apply.

Returnable until Jan 31, 2021

Size Name: 44mm/1.73" 10pcs

44mm/1.73" 10pcs \$9.99	46mm/1.81" 10pcs \$8.99	74mm/2.9" 10pcs A \$10.99
74mm/2.9" 10pcs B \$11.99	110mm/4.3" 4pcs A \$10.99	

- Package Content: 10pcs x Toggle Latch
- Made of good anti-corrosion stainless steel material, durable to use.
- Excellent tension make it hold firmly while locking. High strength catch and strike.
- This toggle latch usually use in toolbox, drawer, cases, chests, or other hardware.
- With compact size and easy to use, it is really a great tool for home, office, shop and so on.

[See more product details](#)

[Compare with similar items](#)

[Report incorrect product information.](#)



Airisoer Elastic Bands for Sewing White Knit Elastic Spool High Elasticity Wide 1 Inch x 12 Yard

Visit the Airisoer Store
 4.5 stars (1,506 ratings)
 Amazon's Choice for "thick elastic"

Price: **\$6.99** Prime FREE Delivery & FREE Returns

Returnable until Jan 31, 2021

Color: White

Size: 1 Inch

1 Inch 1/4 Inch 1/8 Inch

- [Premium Material]** : Made of polyester silk and Natural Latex Rubber, soft, comfortable and breathable, no harmful odor, safety in use
- [Good Elasticity]** : Decent stretch, easy to restore the original length without deformation, and will not loosen over time either
- [Proper Size]** : Upgraded thickened sewing elastic bands, Length: 12 yards/11m, Width: 1 inch/2.5cm, applicable to most sewing projects
- [Wide Usage]** : Widely apply to pajama pants, shorts, sportswear, underwear, skirts, waistbands, necklines, wigs or crafts DIY projects etc. especially, perfect for making clothing for your kids
- [Neatly packed]** : Each sewing elastic band was neatly rolled in a circle before packed, easy to cut into the length you want

[Report incorrect product information.](#)

Friday, January 8:

- Received 3D printed box and lid
- Assembled Box with hinge and latch
- Cut plexiglass top piece
- Added elastic phone storage
- Inserted removable foam piece

