How do people create 3D model files?
Generally 3D model files are created with 3D model software. There are a lot of software options to choose from: some are web-based and some desktop based. Tinkercad, which is web based software used to create and share 3D model files. What makes Tinkercad so great is how easy it is to use. If you can click and drag, then you can use Tinkercad

Login
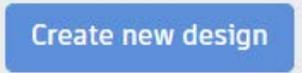Open up a web browser and navigate to www.tinkercad.com
Click Sign In
Enter the following credentials
Username = nplstarwarsday@gmail.com
Password = password123

Creating a new file
Click on Create New Design

Create new design

In the upper left corner your file will have a strange name
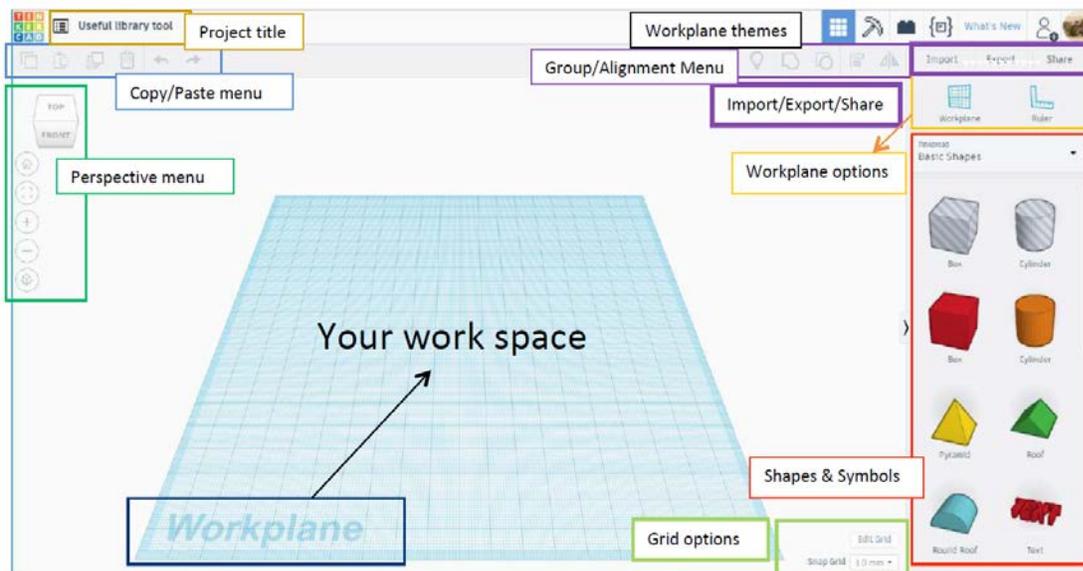
TINKERCAD Neat Fulffy

Click on the name and rename the file with your first initial and last name

TINKERCAD JSmith

Press Enter on the keyboard to finalize renaming of the file

Tinkercad workspace overview

Your work space

Basic How To's

Mouse buttons commands

Left click- Selects objects and anchor points
Mouse wheel click and hold- move the workplane left, right, up and down
Mouse wheel roll forward and back- Zooms in and out
Right click and hold- Rotates the workplane

Moving a shape or symbol from the basic shapes menu to your workplane
a. Select which shape you would like to add to your Workplane.
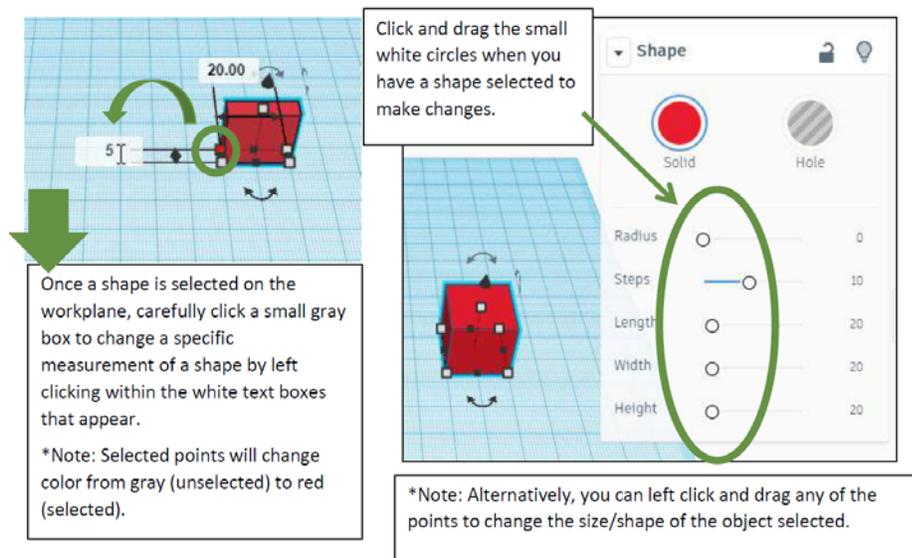b. Move your mouse over the Workplane where you would like to "drop" your shape.
c. Left click to "drop" shape and add it to the Workplane
*Note: Alternatively, you can left click and hold the shape you want, drag your mouse to where you want to put it on the Workplane and then let go of the left click button on the mouse to drop your shape
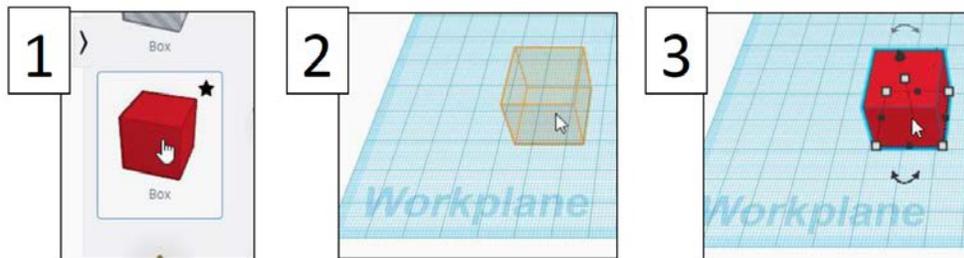

Resizing your shape
There are many different ways to edit your shape once it's on the Workplane.

Click and drag the small white circles when you have a shape selected to make changes.

Once a shape is selected on the workplane, carefully click a small gray box to change a specific measurement of a shape by left clicking within the white text boxes that appear.

*Note: Selected points will change color from gray (unselected) to red (selected).

*Note: Alternatively, you can left click and drag any of the points to change the size/shape of the object selected.

Moving a shape above or below the Workplane
a. You can move a shape above the Workplane by clicking and dragging the cone shaped handle

above your shape. This function allows you to stack shapes on top of each other.
b. Remember to view your shape from the front to make sure it's not floating above the Workplane. This could mess up your 3D print if the base of your project isn't touching the Workplane.
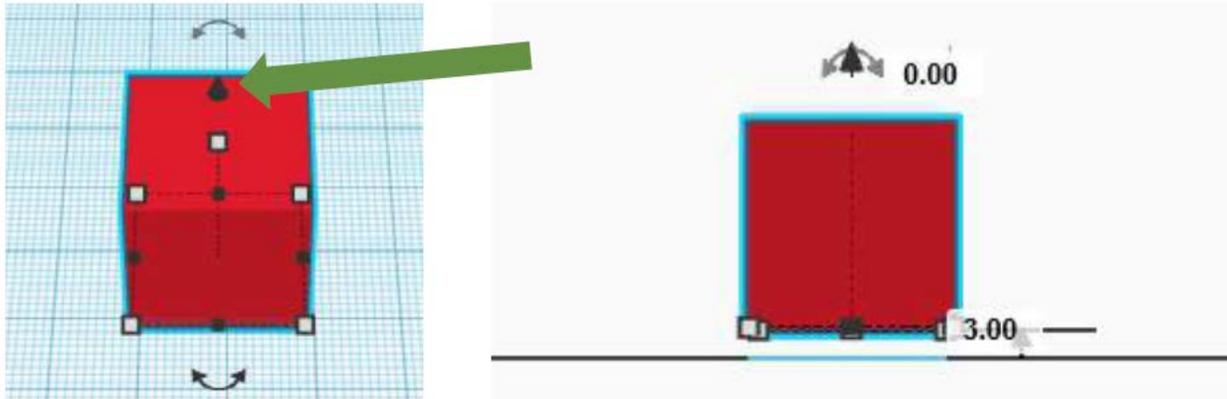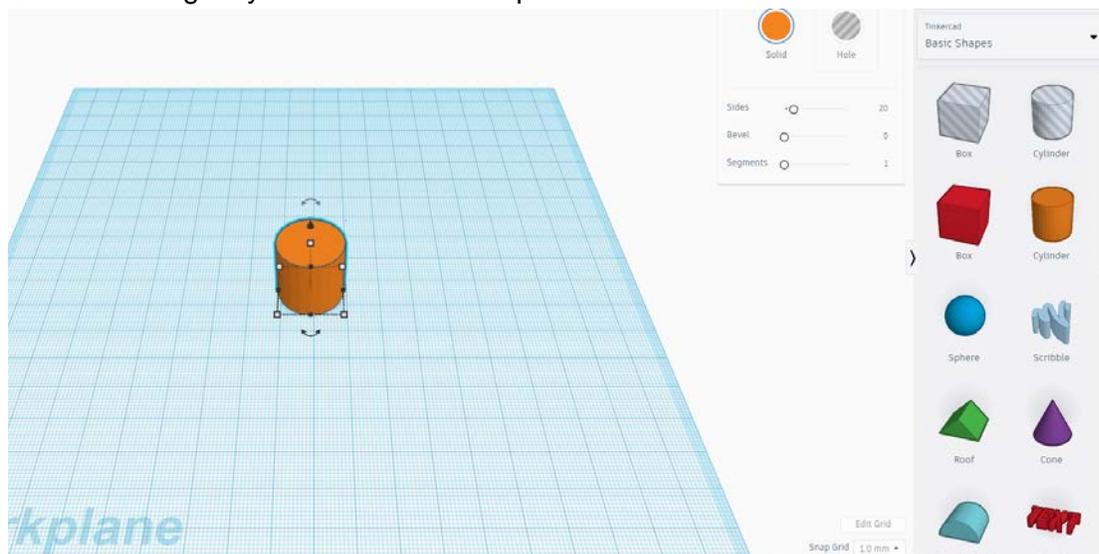

Lets Create a keychain
Step 1
If you practiced any of the above steps lets delete any objects brought onto the work plane. Click on the object/shape and press delete
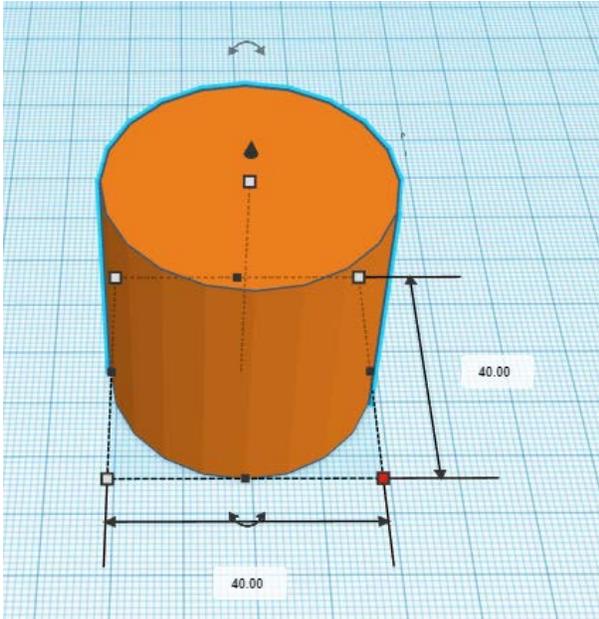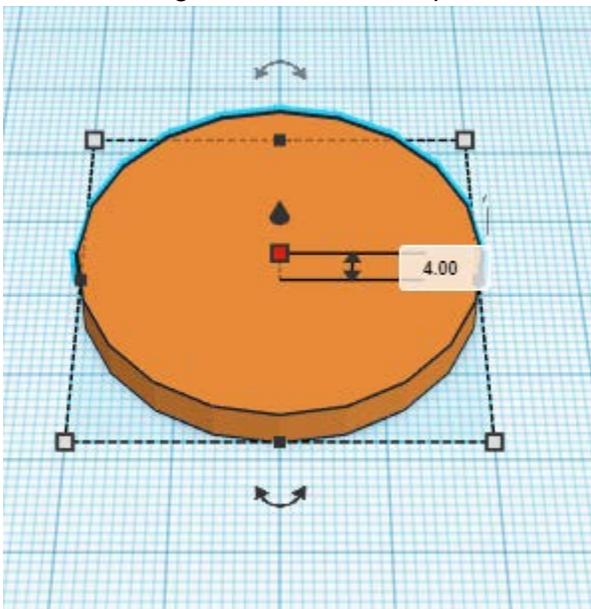
Step 2
Click and Drag a cylinder onto the workplane

Step 3
Click and drag a corner anchor point until the cylinder is resized to 40mm x40mm

Step 4

Click and drag the center anchor point down until the height is 4mm
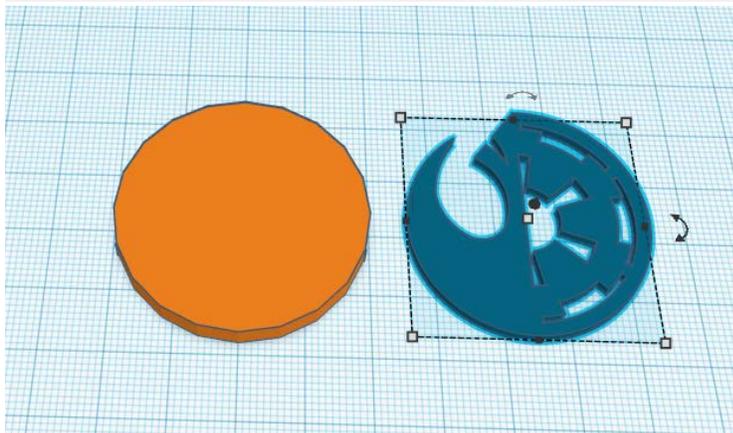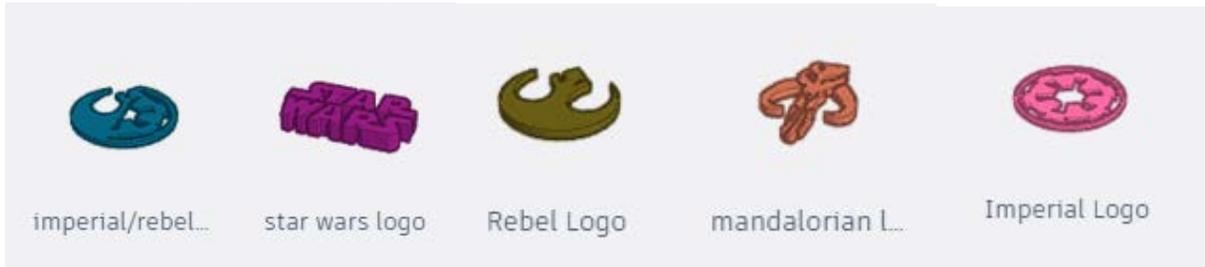

Step 5
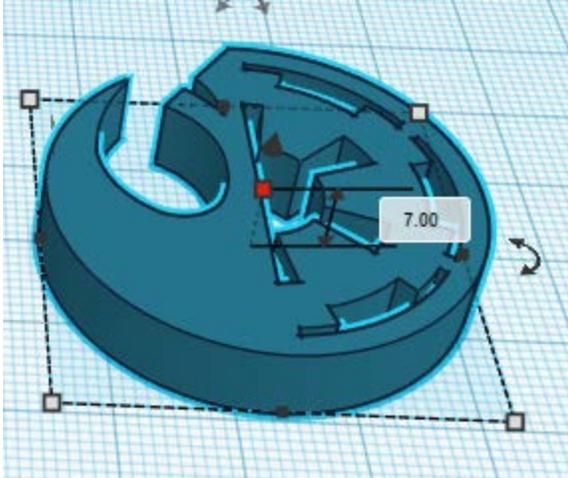
Click on Tinkercad shape menu
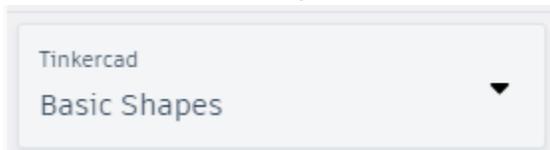
Click on Part Collection
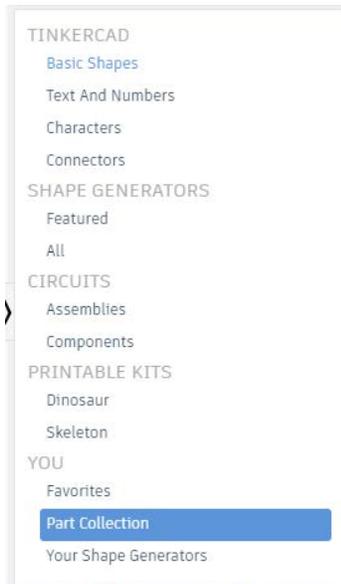
Click and Drag a star wars logo onto the workplane

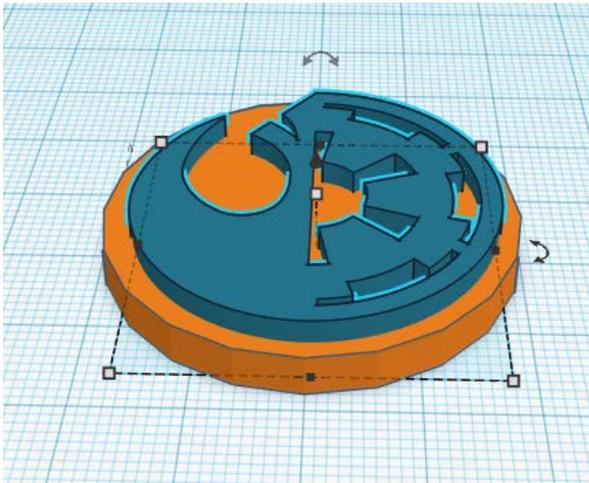imperial/rebel...   star wars logo   Rebel Logo   mandalorian l...   Imperial Logo

Step 6
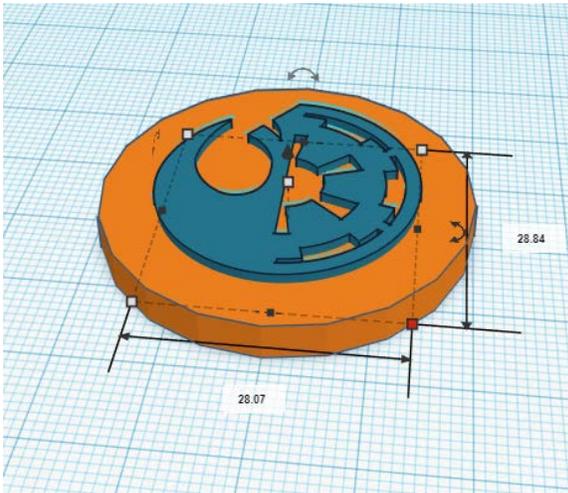Click and drag the center anchor point of the logo up until the height is 7mm

Step 7

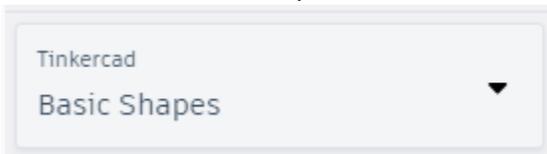Click and drag the logo to the center of the cylinder

Step 8

Click and drag a corner anchor point of the logo until it is sized down to the size you would like it to be. Make sure all parts of the logo are within the cylinder.
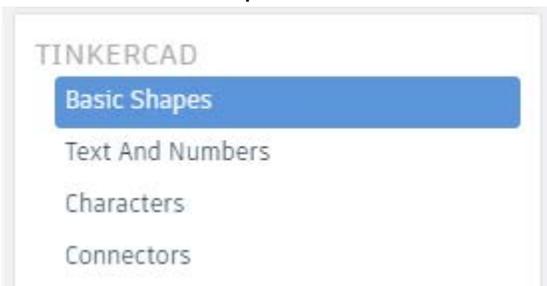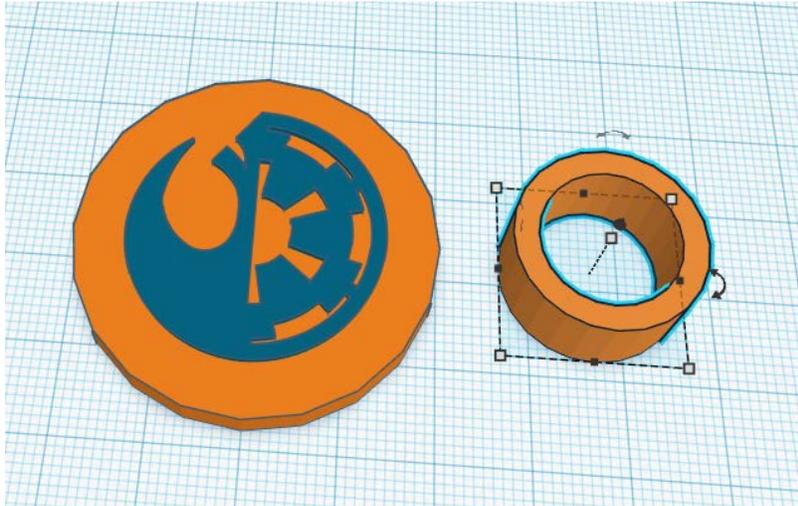

Step 9

Click on Tinkercad shape menu

Tinkercad
Basic Shapes ▾

Click on Basic Shapes

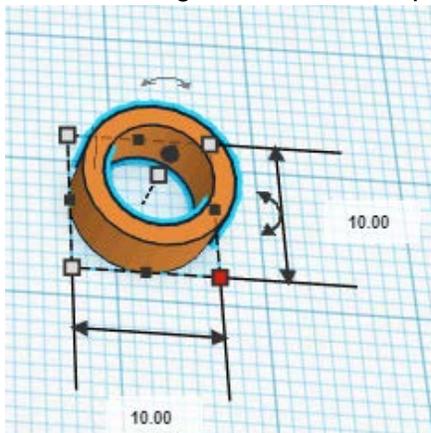TINKERCAD
Basic Shapes
Text And Numbers
Characters
Connectors

Step 10
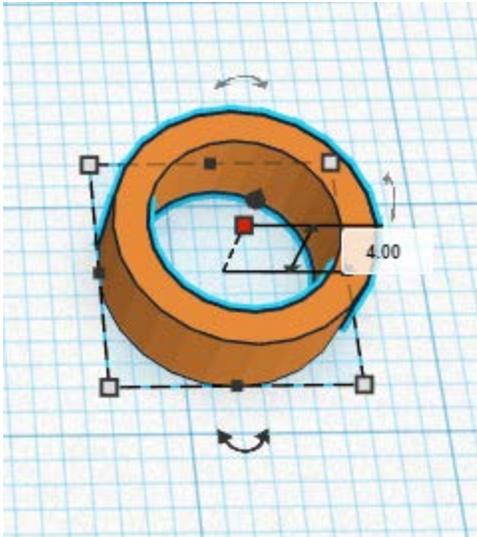Click and Drag a tube onto the workplane

Step 11
Click and drag a corner anchor point until the tube is resized to 10mm x10mm
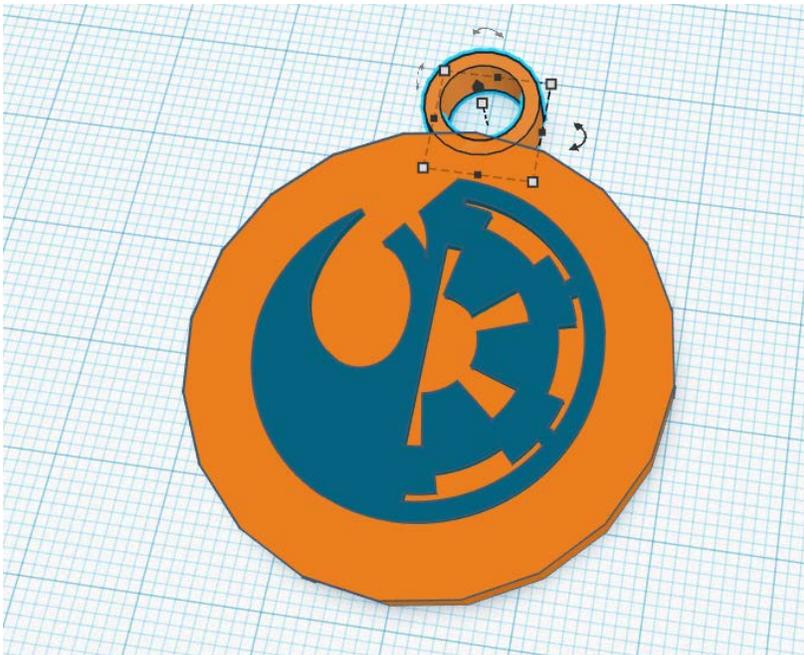
10.00

10.00

Step 12
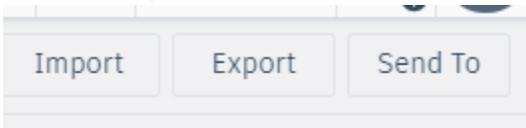Click and drag the center anchor point down until the height is 4mm

Step 13

Click and drag the tube to the top of the cylinder. Have the bottom part of the tube intersect with the cylinder
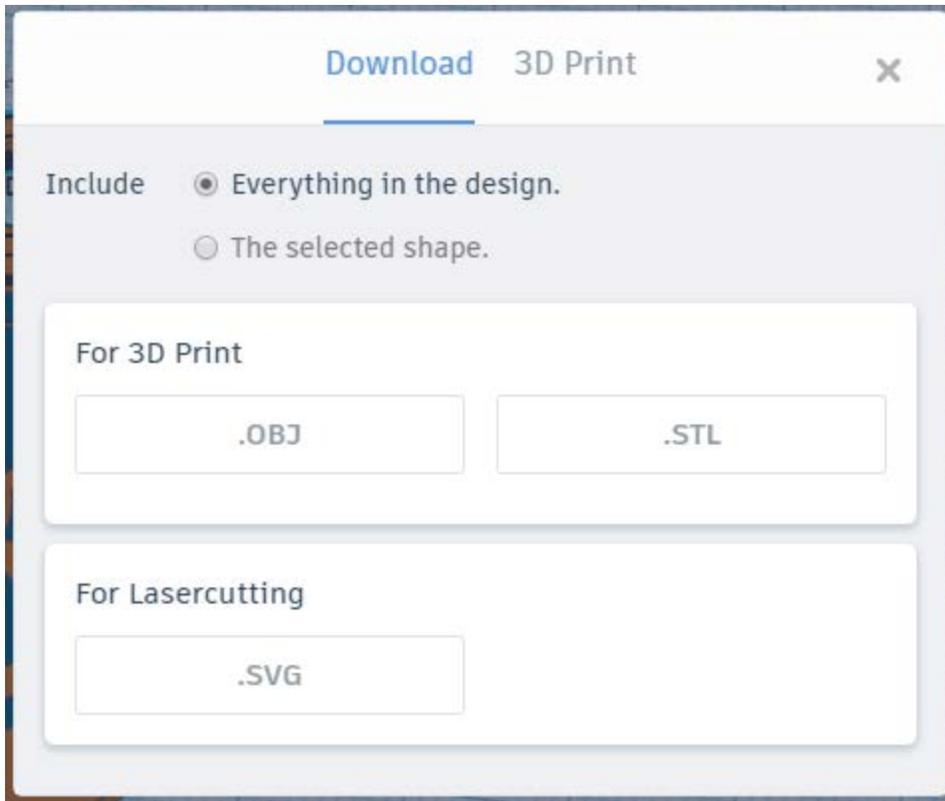

Step 14

Click on Export to create a file

Select Everything in the design, then click on .STL

The file will be downloaded to the downloads folder

Open finder by clicking on
Then click on downloads

You will find your file in this folder.
You can copy it to flash drive or email it to yourself by logging into your email.