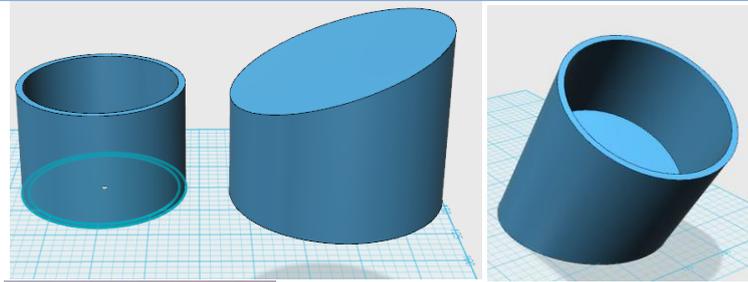




### 123D Design Tutorial: Angled pot holder



The pot holder is made up of 2 sections which are joined together:  
Each section is drawn separately in CAD, then they are attached together to make the angled potholder.



#### BEFORE YOU START:

This tutorial is for a pot holder which raises the pot noodle up by 30mm, tilts the pot by 20 degrees and the pot sits in the potholder to a depth of 50mm.

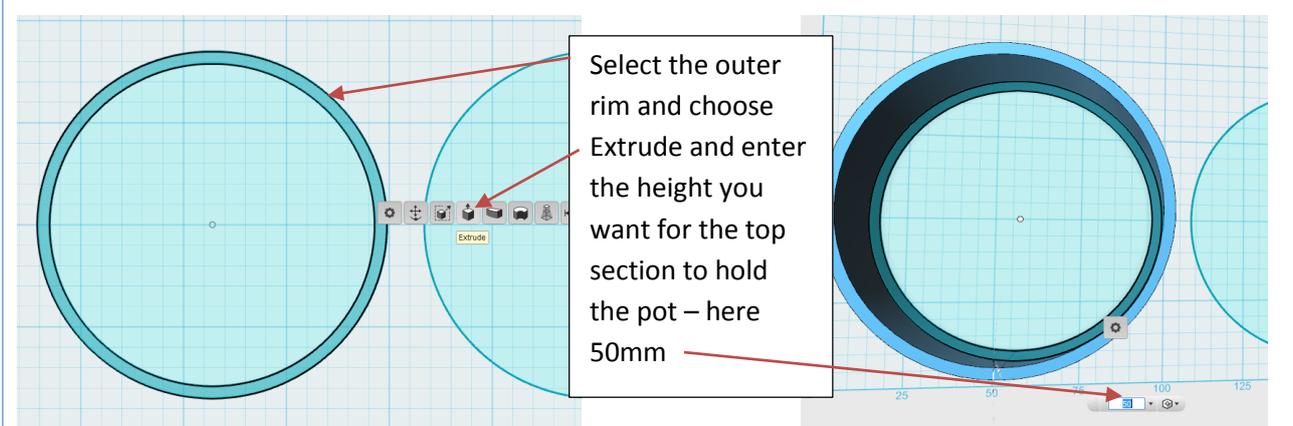
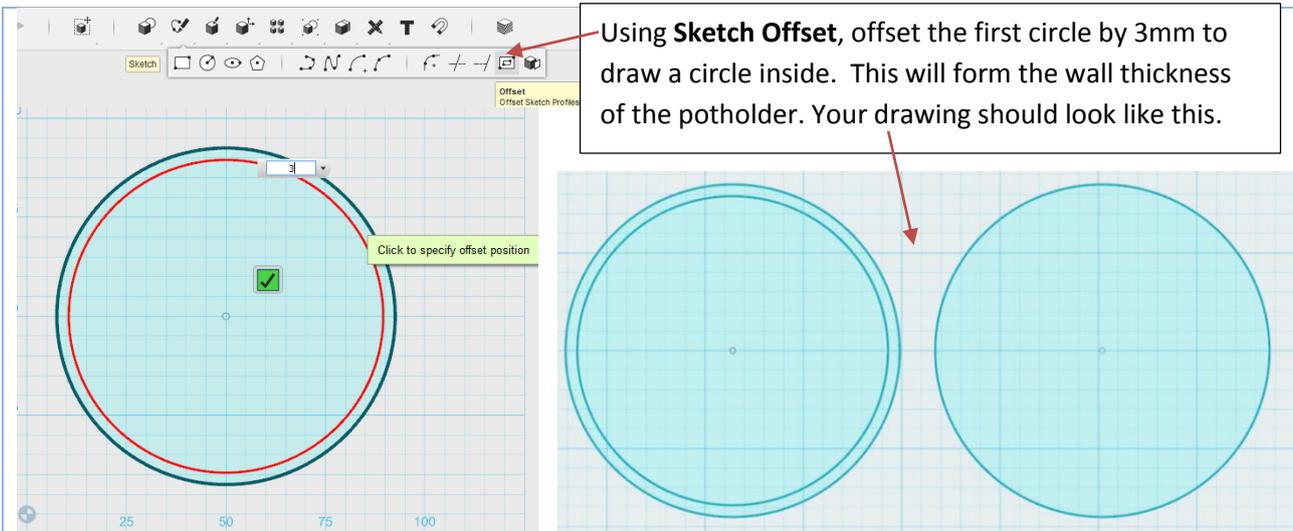
If you want the pot to sit at a different height or tilted slightly more or less, and/or you want the potholder to come further up the sides of the pot noodle, you need to take measurements and adjust the figures in this tutorial.

Sketch Circle  
Create a Circular Sketch

Use **Sketch Circle** tool to draw a circle diameter 85mm – this is the outer

Click to specify diameter

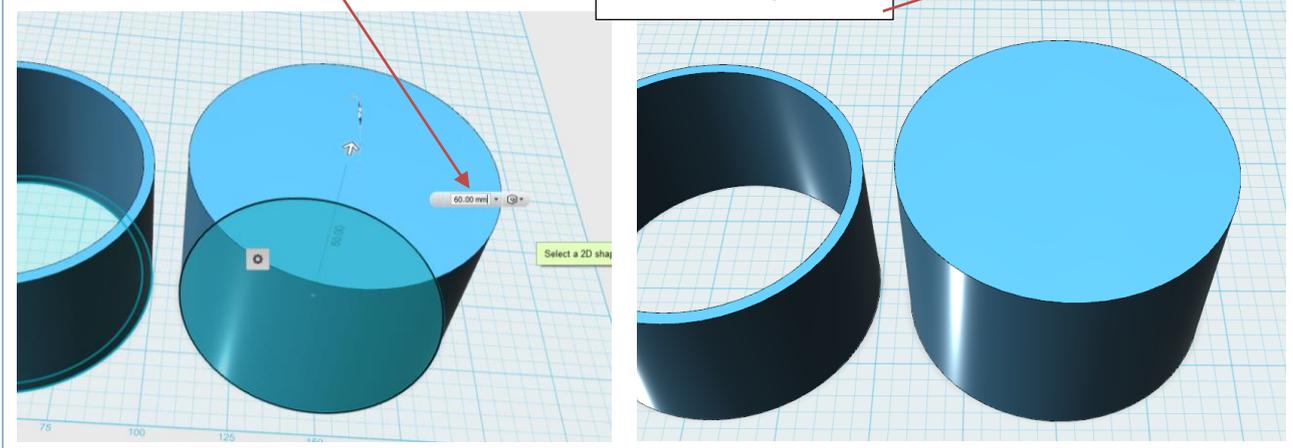
Click on your circle and on the keyboard do **Ctrl C** followed by **Ctrl V** to make a copy. The copy appears in blue with the **move handle** – move the copy to the side.

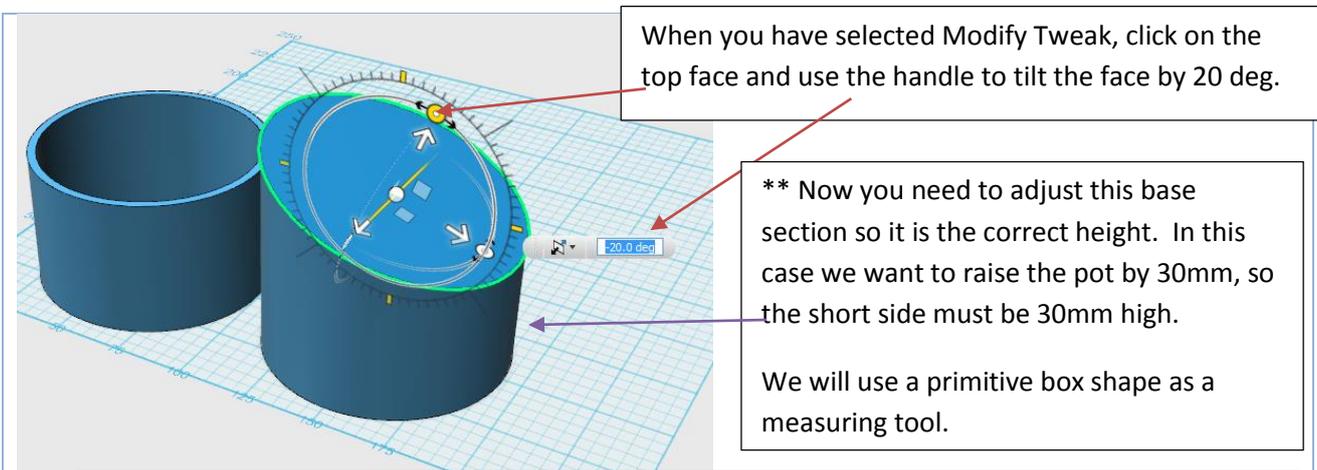


**SAVE YOUR WORK!**

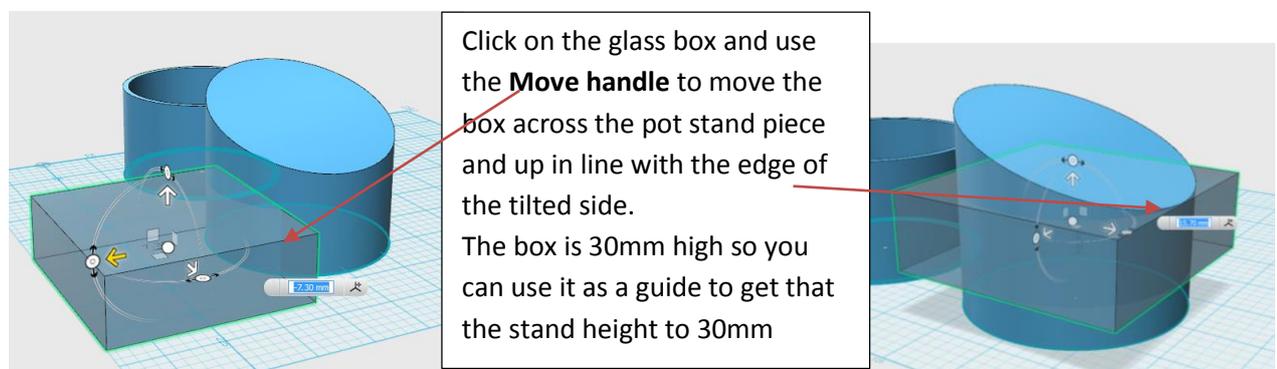
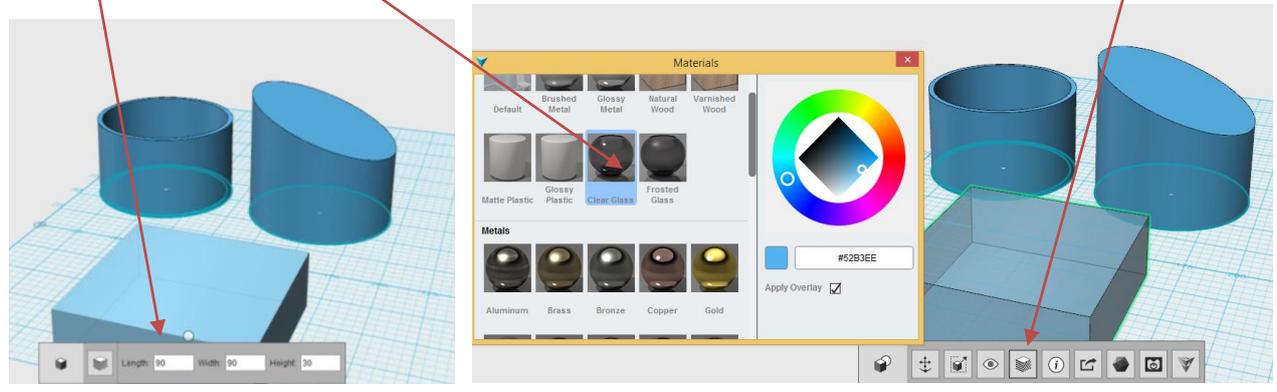
Click on the other circle and **Extrude** it to 60mm height.

Select **Modify Tweak**



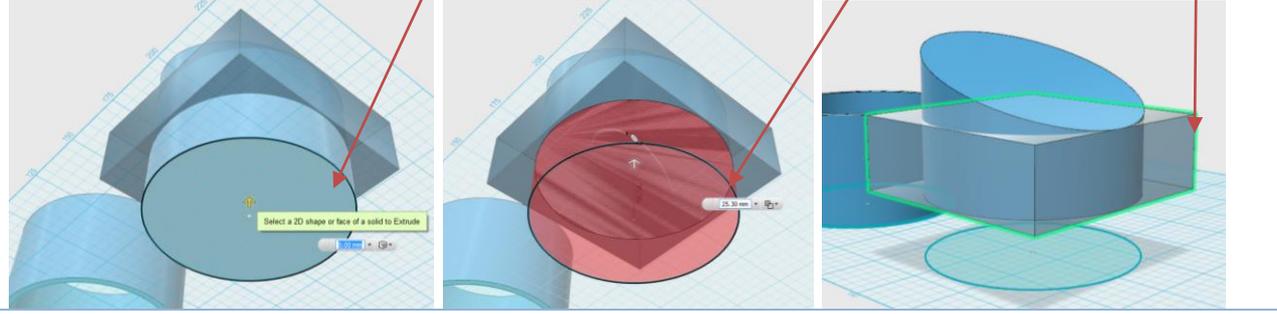


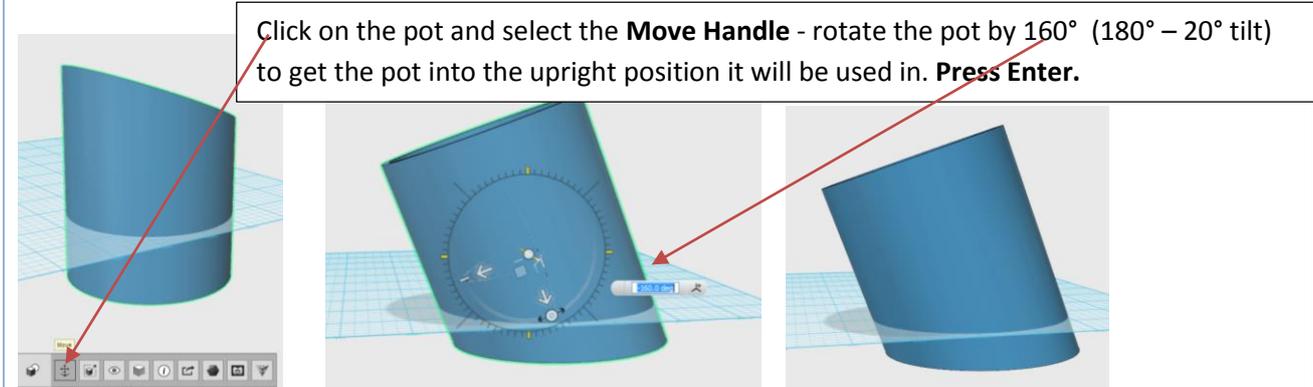
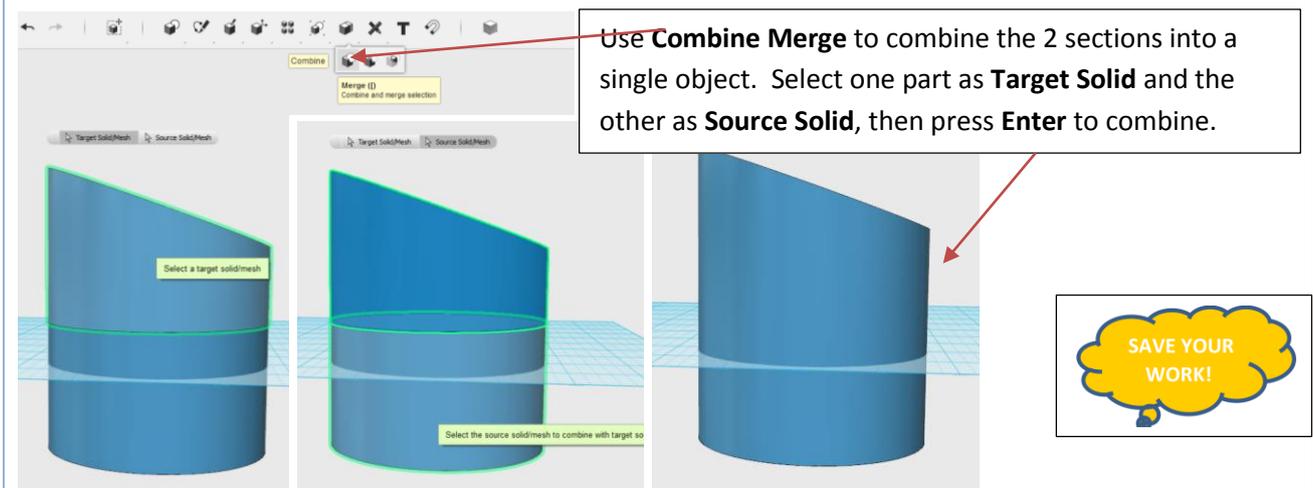
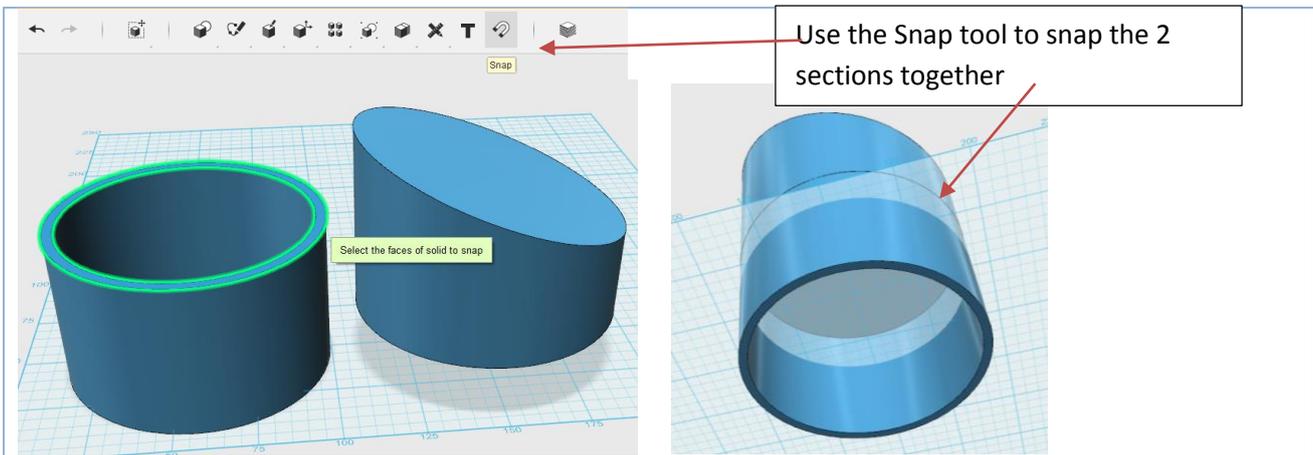
Use **Primitive Box** tool to create a box 90 x 90 x 30. Select the box and choose the **Materials** tool and choose **Clear Glass** so you have a transparent box 30mm high to use as a size guide.



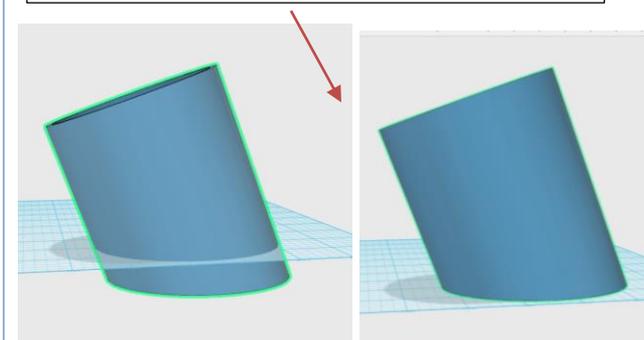
Select **Modify Push/Pull** and tilt the screen to select the bottom face of the stand. Use the arrow to **Push** the face in to reduce its height to the level of the glass box – press Enter.

Your drawing will look like this – select the glass box and delete it.





Select the pot again and **press D on the keyboard** – this sits the object on the grid



Save your 123D file, then **Export the STL file** ready for 3D printing

