

3D DESIGN

DESIGN A 3D PLANTER IN TINKERCAD

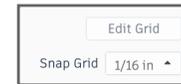
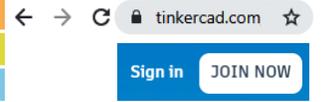


1

LOG ON TO TINKERCAD.COM

If you are new to Tinkercad, **create an account** and complete the “learn” tab. Then, go to “create a new design.”

Before starting, change the document from millimeters to **inches**. On the bottom right portion of the screen, select **edit grid** and set the **units to inches**.
A video tutorial for completing this project can be found at: youtu.be/HlvGzGAMGLg



Edit Grid:
Change the grid to inches by selecting Edit Grid.

2

SHAPES TO GET STARTED

Grab a **solid cylinder** and a **hole cylinder** from the “Basic Shapes” drop-down menu. Later, you will grab additional shapes to adorn your planter.



Cylinder



Cylinder

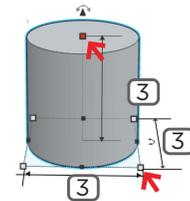
3

SCALE

Adjust the shapes to the sizes below:

Cylinder (Solid): 3”x 3”x 3”

Cylinder (hole): 2.9”x 2.9”x 2.9”

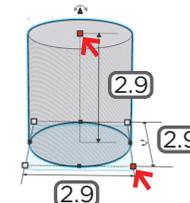


Scale:
Length, Width, and Height to 3”

4

ALIGN & DECORATE

Select both the hole and solid cylinder. Click the **align** button found near the upper right portion of the screen. Align the cylinders through the **middle of the diameter**, and **align to the top** as shown. You have just created the base planter shape. Grab other shapes and **overlap** them with the base planter shape to personalize your planter.



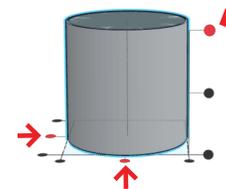
Scale:
Length, Width, and Height to 2.9”

If you want to add text, use the “Text Ring” found on page two under the “Featured All” tab. Click “Basic Shapes” to change tabs.

Character elements such as eyes, hands, and feet can be found in the “Character” tab.

Many other unique shapes can also be found under “Basic Shapes” and “Featured All.”

When adding shapes to your planter, make sure they are **attached** and not floating in the air by **rotating your camera** around the shapes.



Align:
middle diameter, and top as shown



CHECK FOR ACCURACY

Once you are finished decorating your planter, grab all of the shapes and **group** them together. The hole shape will carve out the middle of the planter. Double check your 3D model to ensure all components are touching.



Decorate:
Overlap additional shapes to customize

5

Change the document name to your name and export a .STL. Email the .STL file to 3dprints@carmel.lib.in.us by May 1st to have your model 3D printed for free!



Group:
Group and inspect for errors

