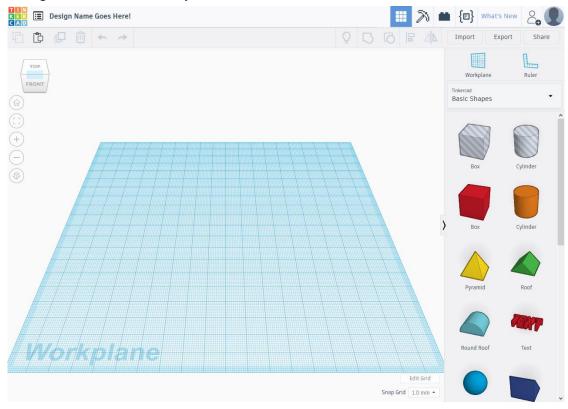
TinkerCAD Workshop

CAD stands for **C**omputer **A**ided **D**esign, which is exactly what it sounds like – using a computer to design things! In this workshop, you will be using an online application called **TinkerCAD** to make some designs of your own!

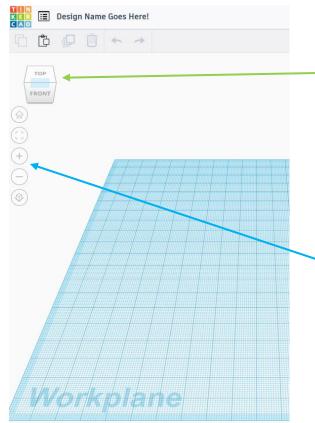
Firstly, click on "Create new design"

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Once you've done that, your screen should look like this. The large blue area is where you will make your design – it's called the **Workplane**.



Now that you've opened the TinkerCAD application, let's take a quick look at what everything does:



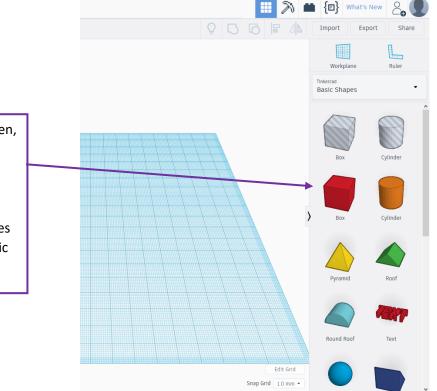
At the top left of the screen, you'll see a cube with the words "TOP" and "FRONT" written on it. This is called the **ViewCube**.

Try clicking on the **ViewCube** and dragging it around – you'll notice that moving it lets you look around the Workplane.

Underneath the ViewCube, you'll see some circular buttons – you can use the + plus and – minus buttons to zoom in and out. Try it now!

You can also pinch the touchpad on a laptop to zoom in and out, or use the scroll wheel on a mouse.

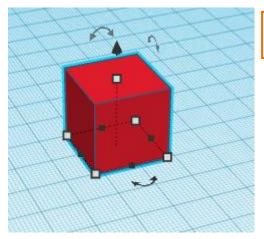
Now let's get building!



On the right hand side of the screen, you'll see lots of shapes.

Choose the **Box** shape and drag it onto the Workplane.

Tip: You can find even more shapes (and text!) by clicking on the "Basic Shapes" drop-down menu.



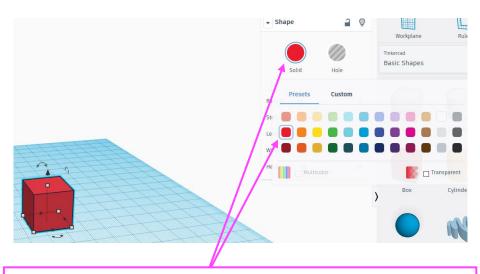
Once you've added a shape, there are several things you can do with it.

Drag the large black arrow to move the shape **up** and **down**.

Drag the curved arrows to **rotate** the shape.

Drag the white squares to **resize** the shape.

Drag anywhere else on the shape to **move** the shape around.

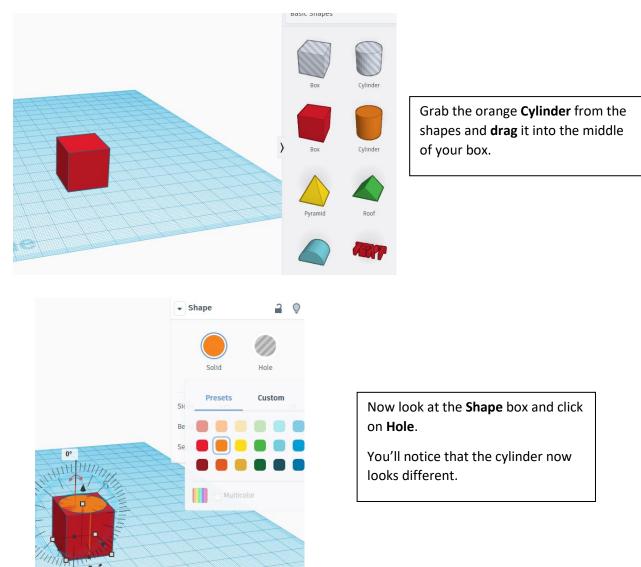


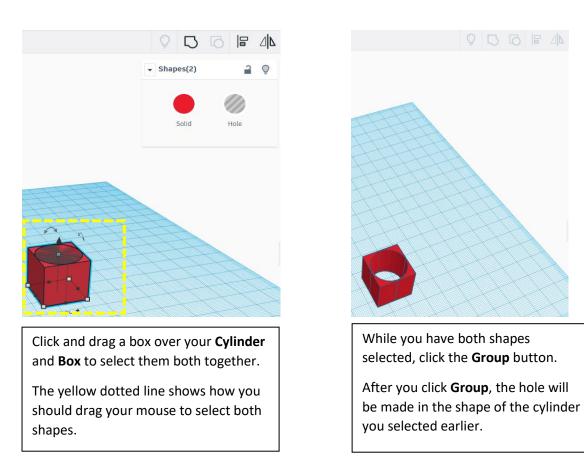
If you want to change a shape's colour, you can do so by clicking on it and changing its colour in the "Shape" box.

Lastly...

The last thing you need to know about TinkerCAD is how to make holes in shapes. Let's say we want to make a circular hole in the middle of our box.

Here's how we'd do that:





And that's all the basics of TinkerCAD – have a look around and see what else you can find, and see what kinds of 3D models you can make!