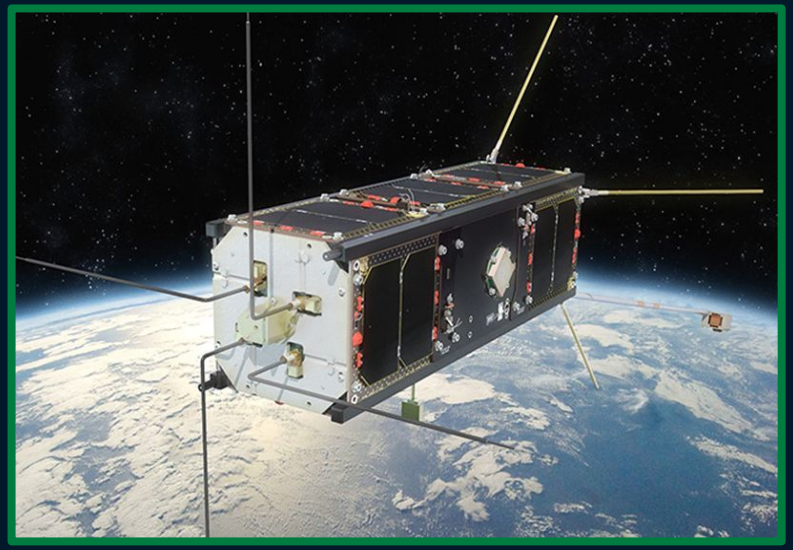
AlbertaSat

Image Courtesy of NASA & Nanoracks

We are a student group who builds satellites

Ex-Alta 1

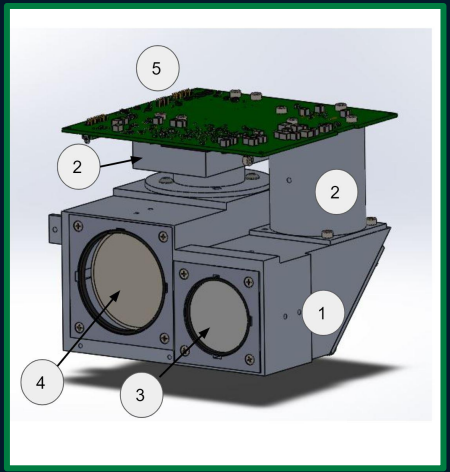
Ex-Alta 1: the space weather satellite

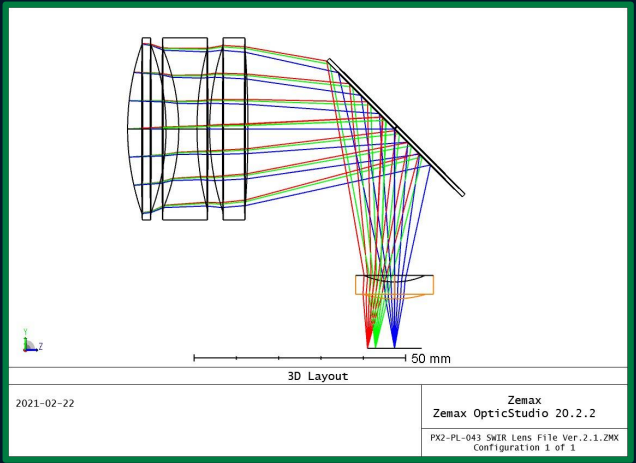


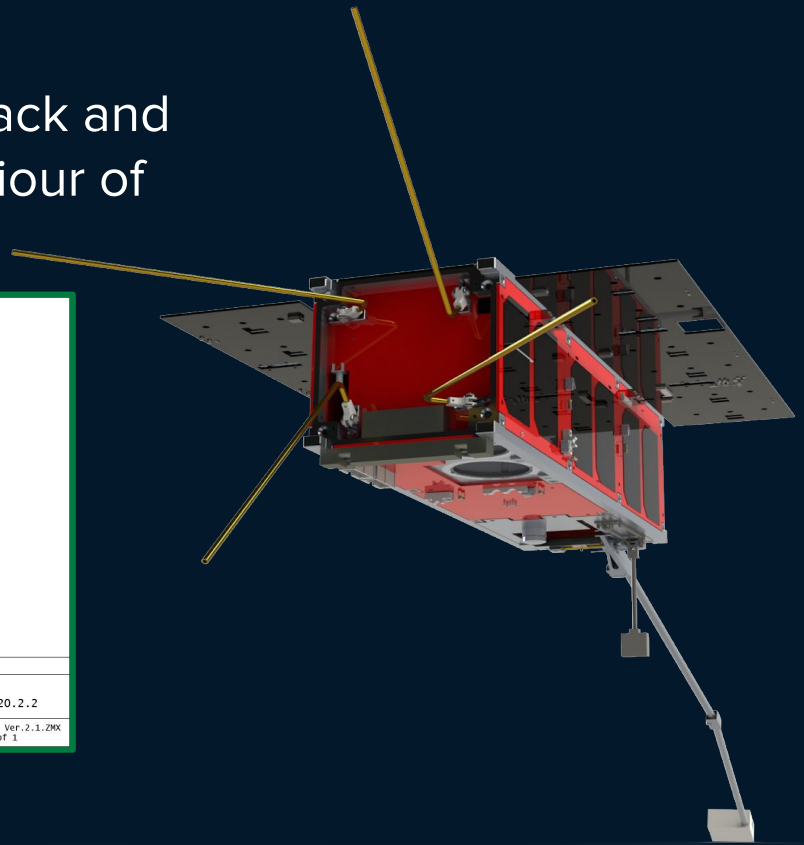
The scientific purpose of Ex-Alta 1 was to monitor space weather.

Ex-Alta 2: the wildfire camera

The scientific purpose of Ex-Alta 2 is to track and assess wildfires, and to predict the behaviour of future wildfires.

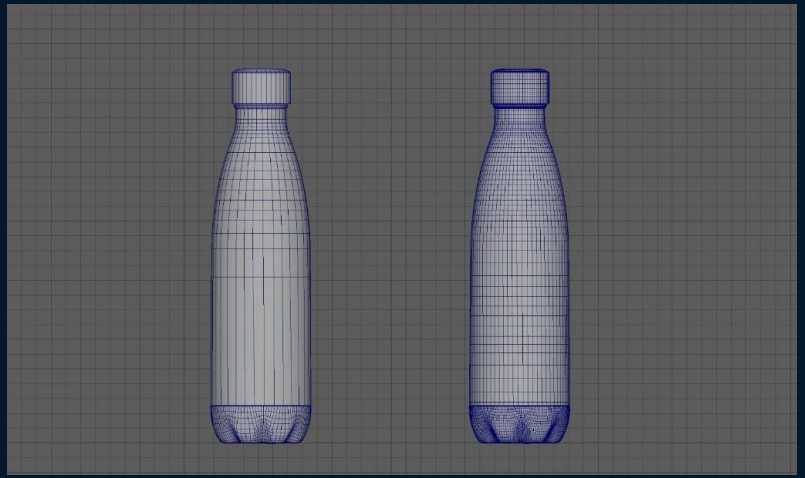




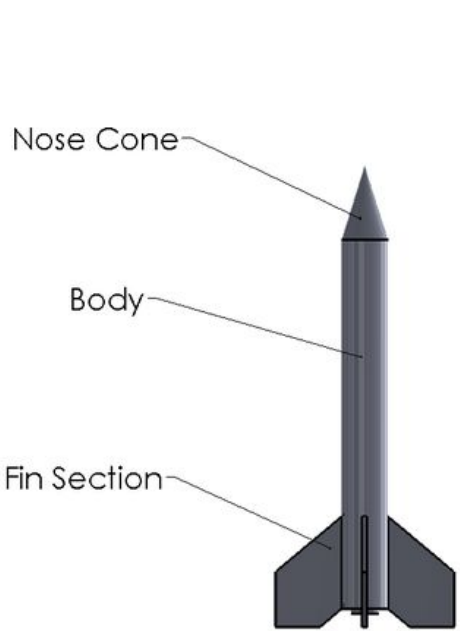


Why learn 3D Modelling?

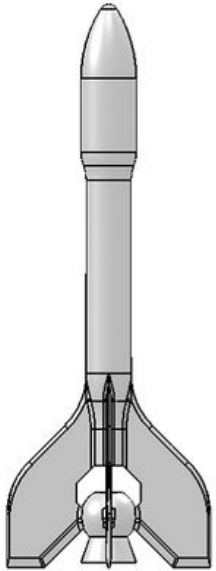
3D Modelling helps us turn an idea into a reality.



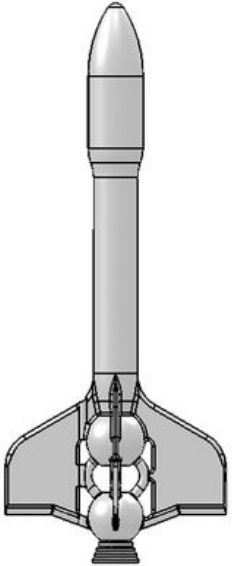
Creation in iterations



Basic



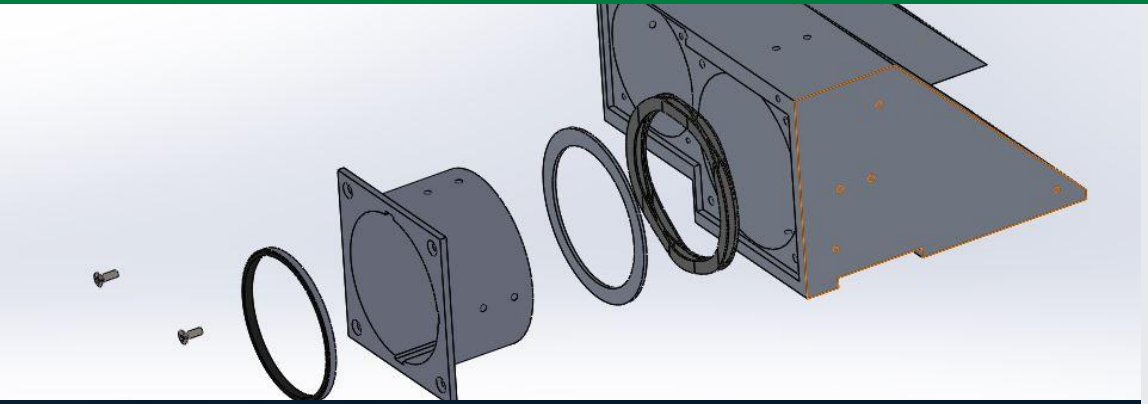
Version 1

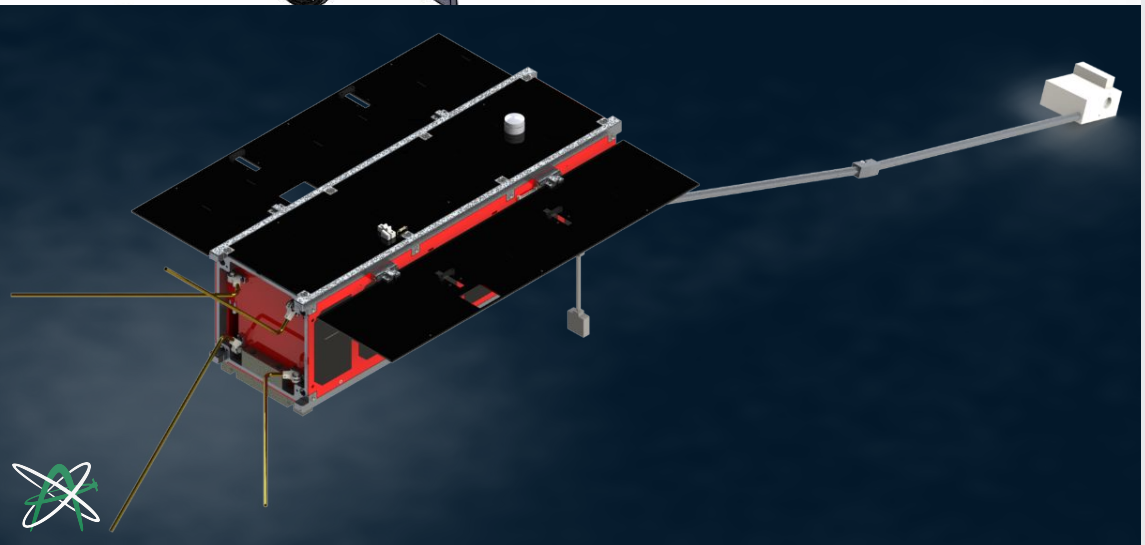


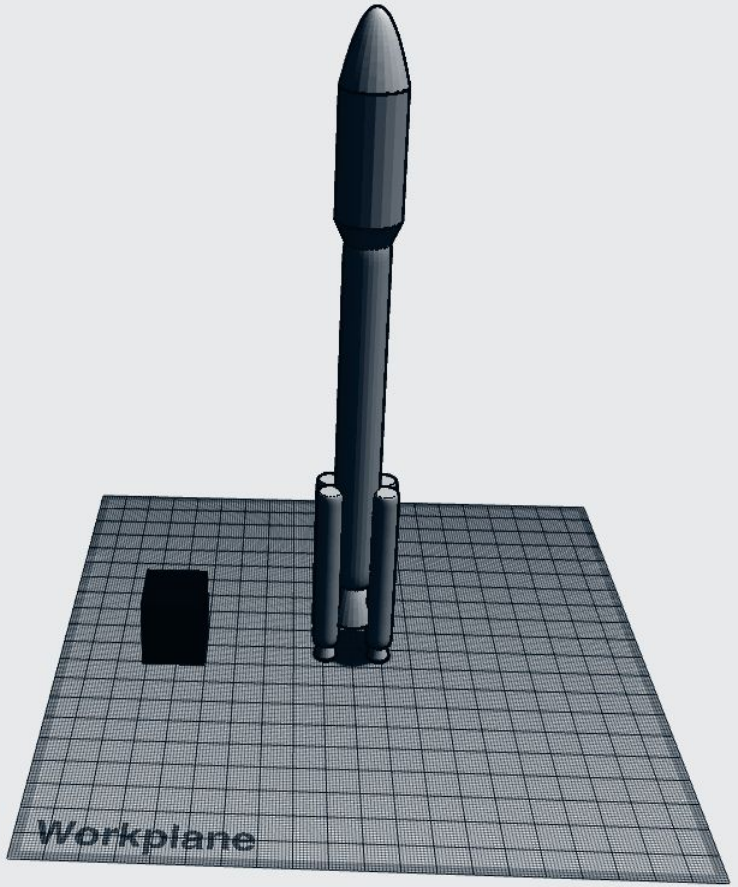
Version 2

Version 3

3D modelling with AlbertaSat



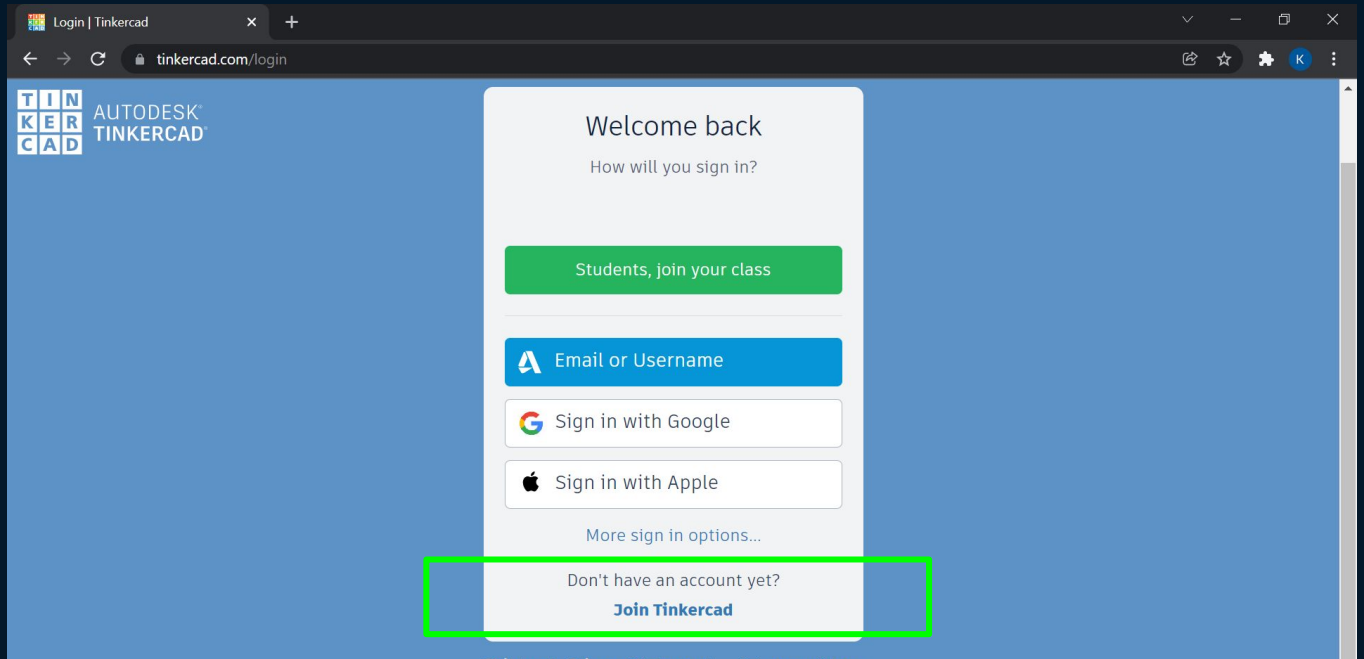




Atlas V Rocket

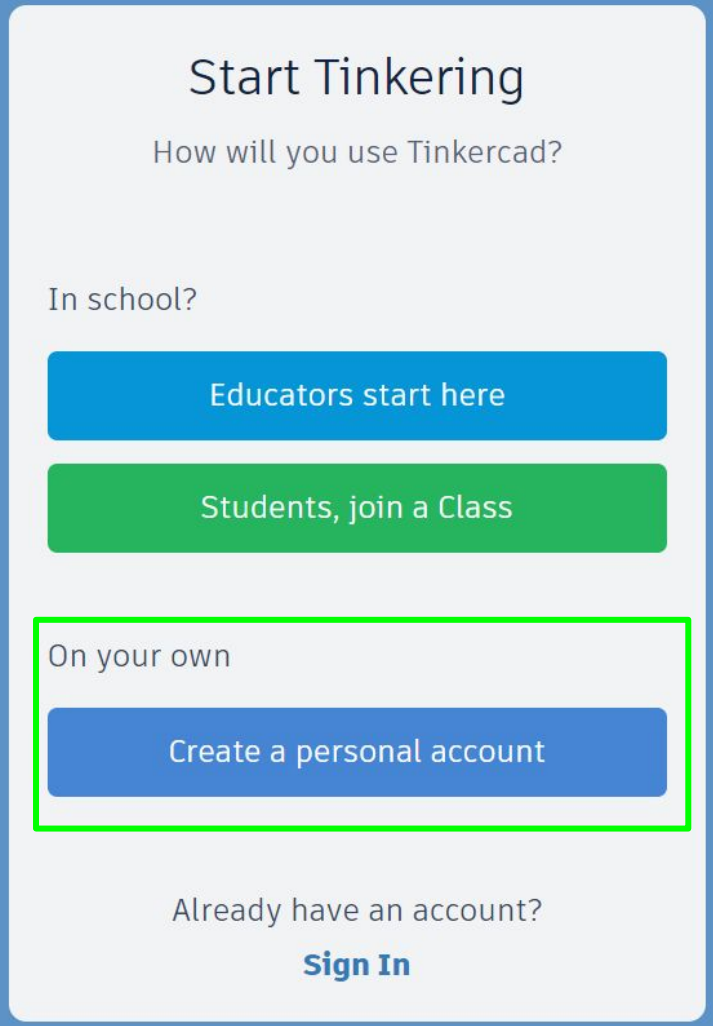
3D modelling using TinkerCAD

Go to: **https://www.tinkercad.com/login**

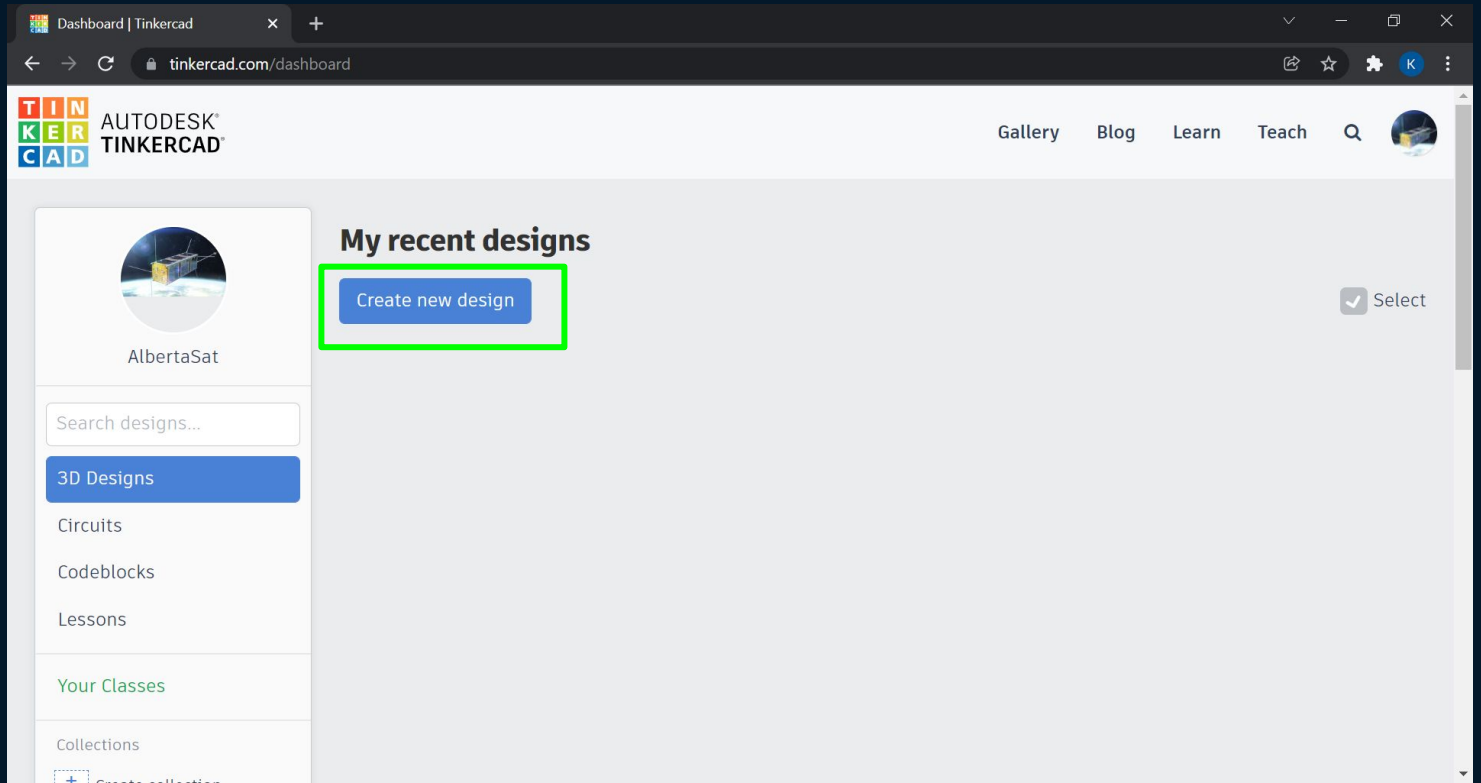


Create your account

Create a **personal account** and sign in with Google if you can



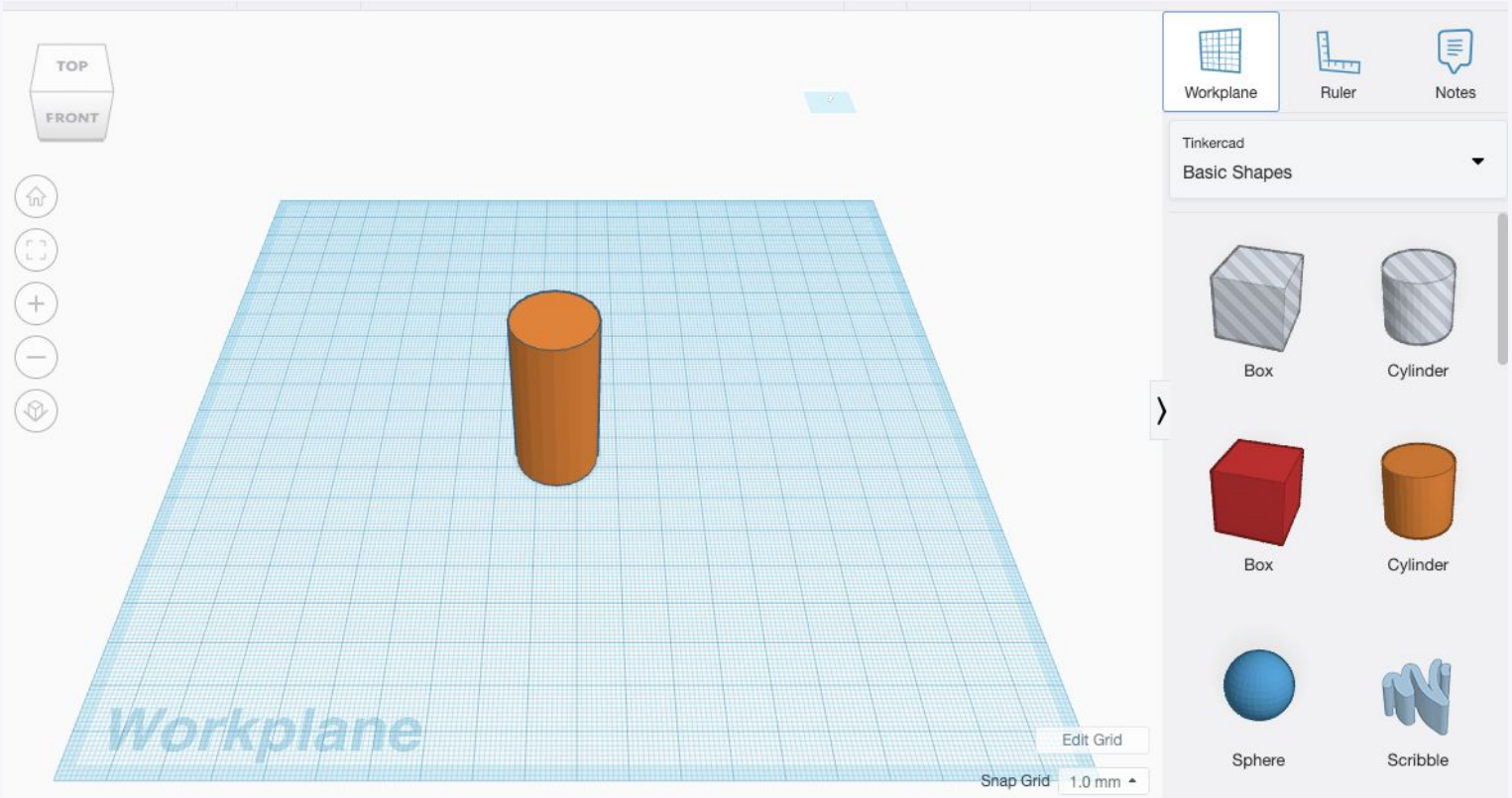
Your screen should look like this



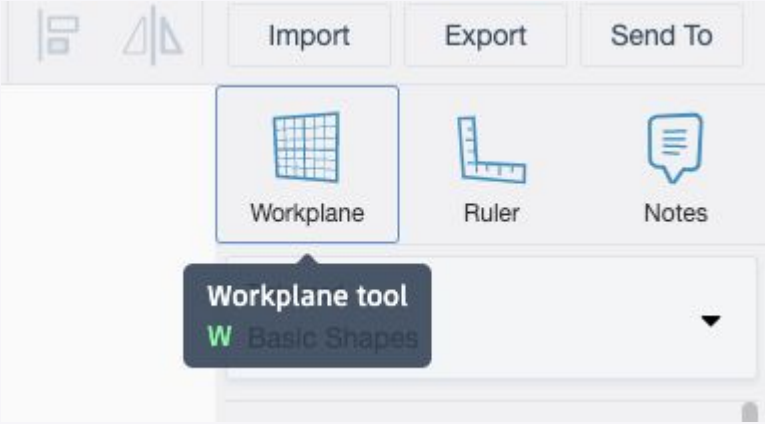
BASIC FEATURES

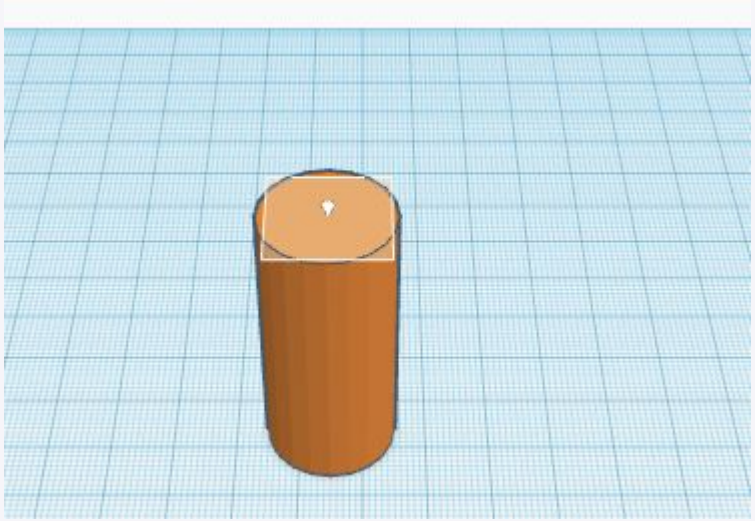
Image Courtesy of NASA & Nanoracks

Make a cylinder



Making the nose cone

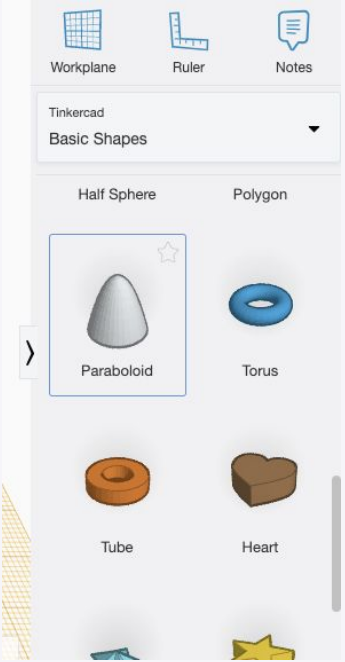


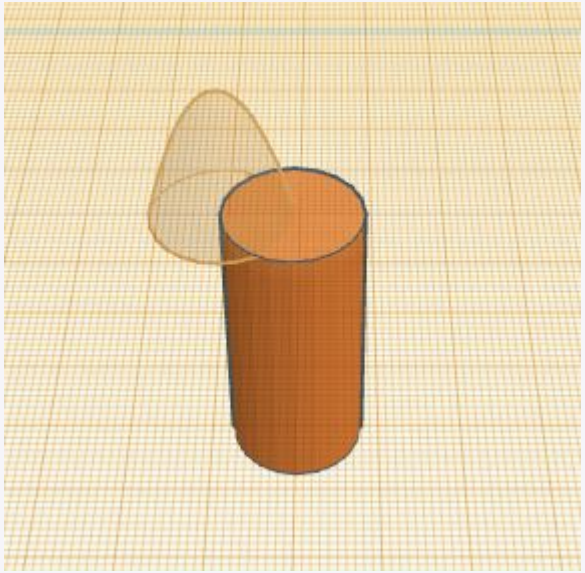


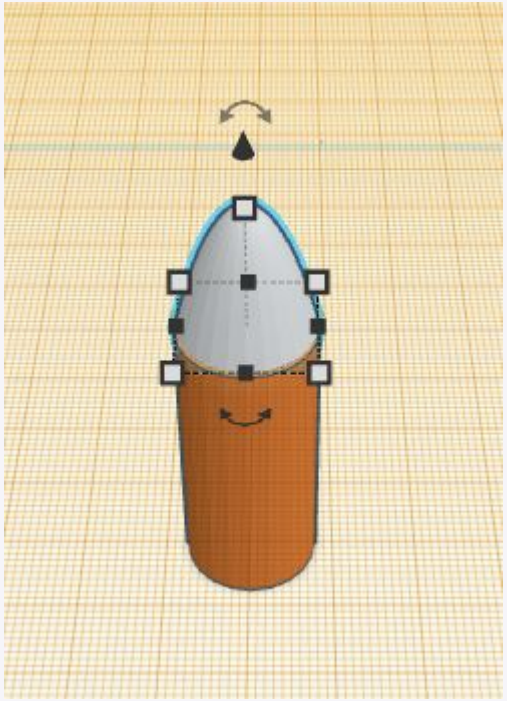
Move blue plane to the top of the cylinder

Select the top of the cylinder as your new work plane

Put the nose cone on

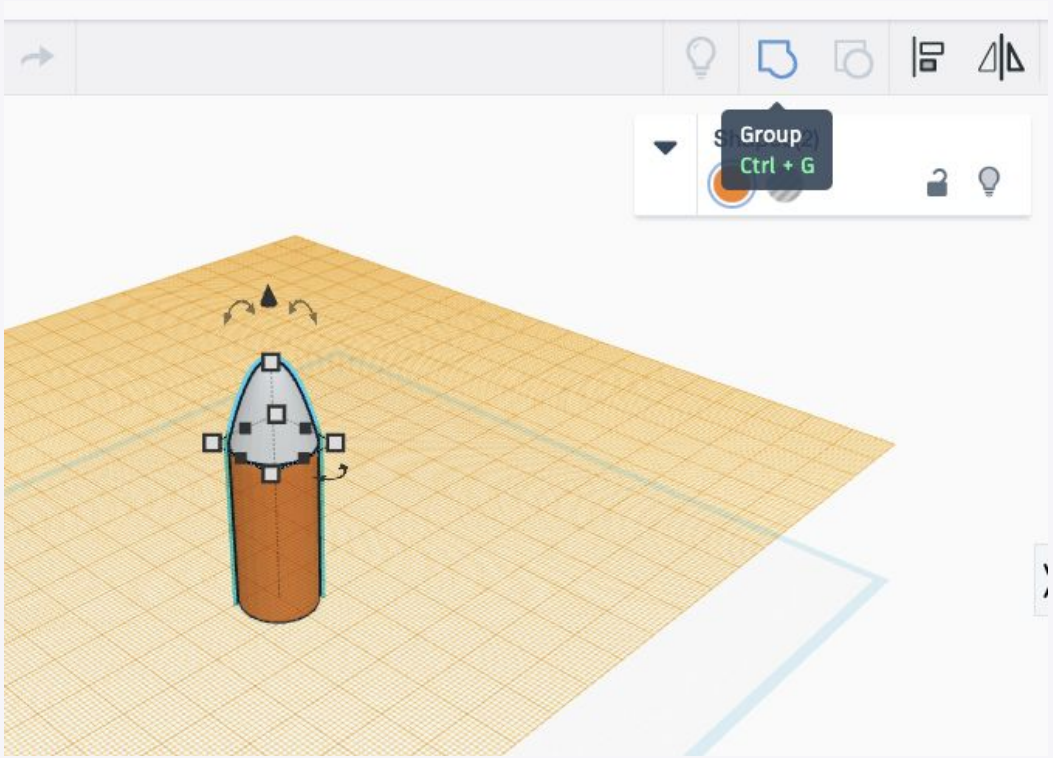




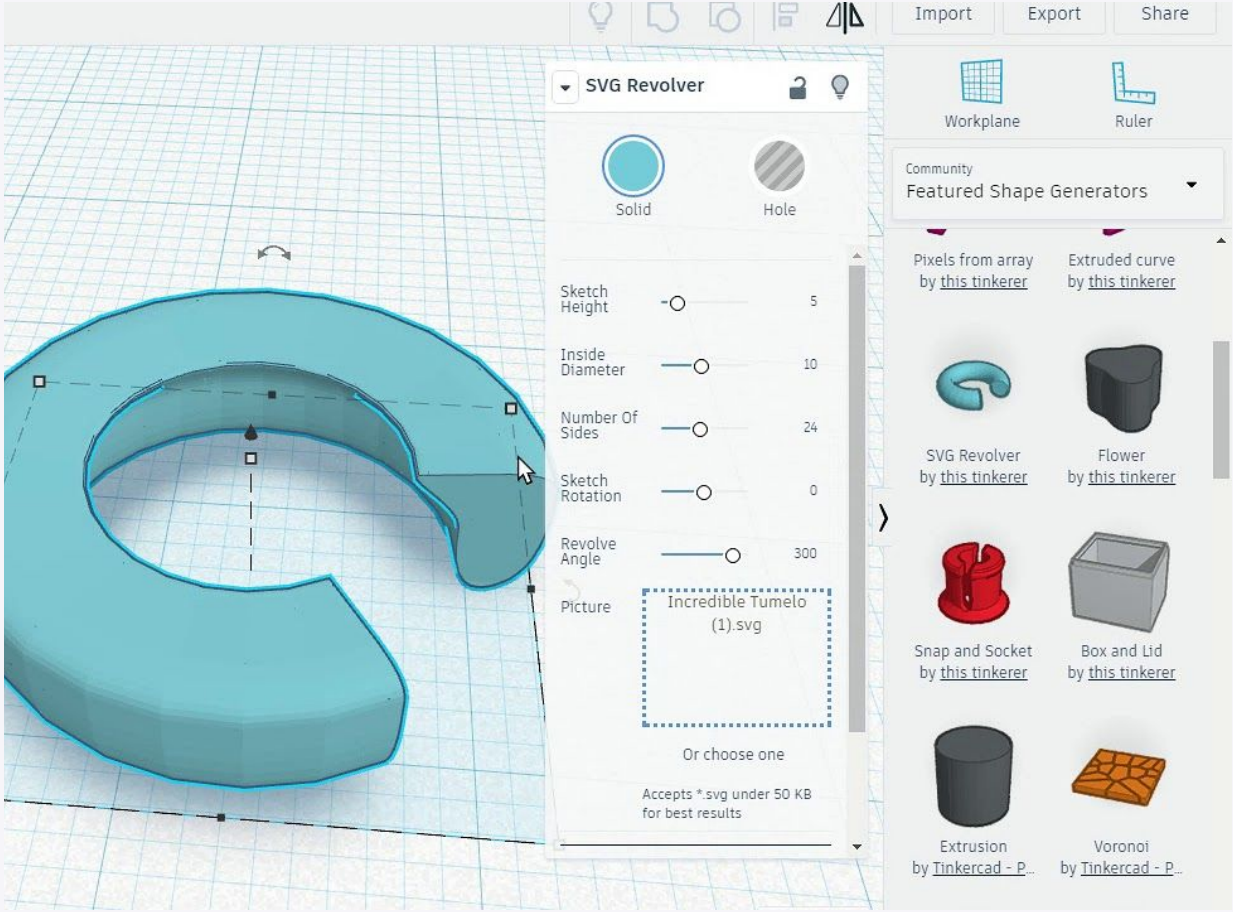


Combine the 2 shapes together by grouping

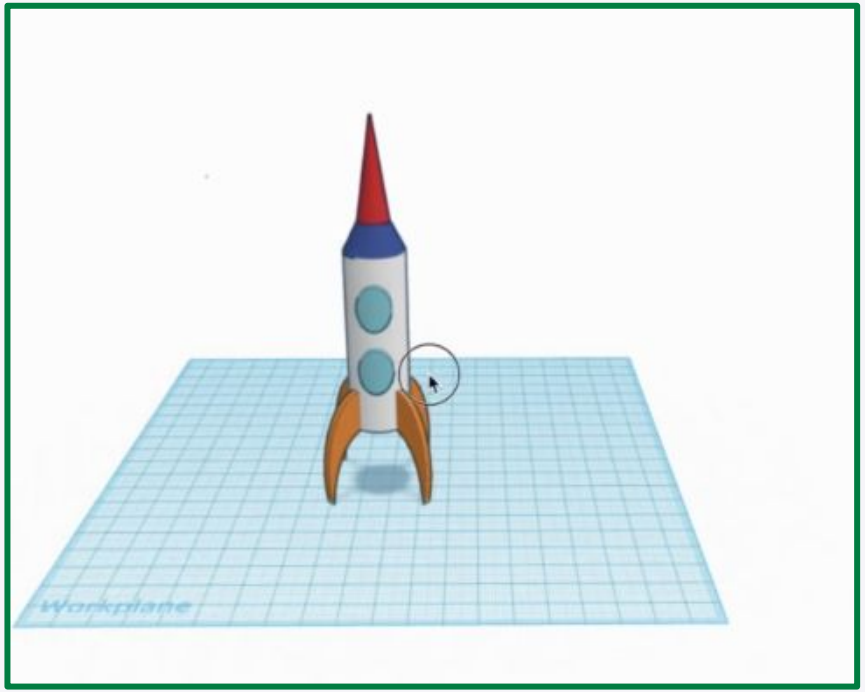
(if you don’t want the parts to move)

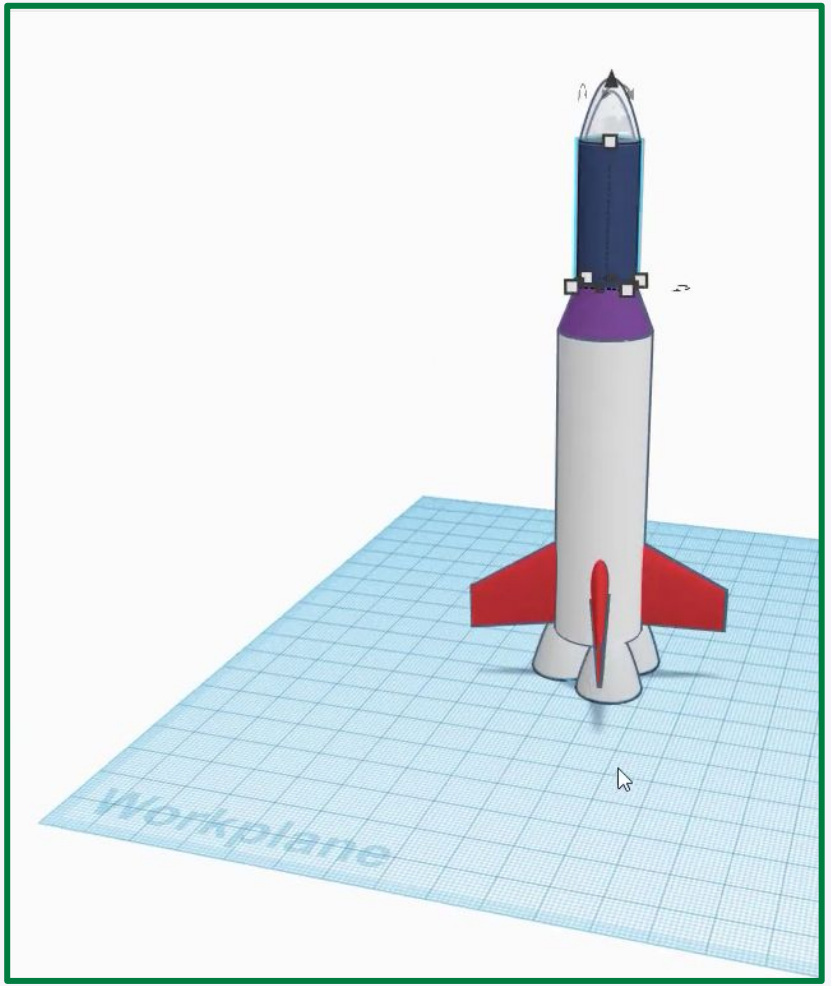


Revolve

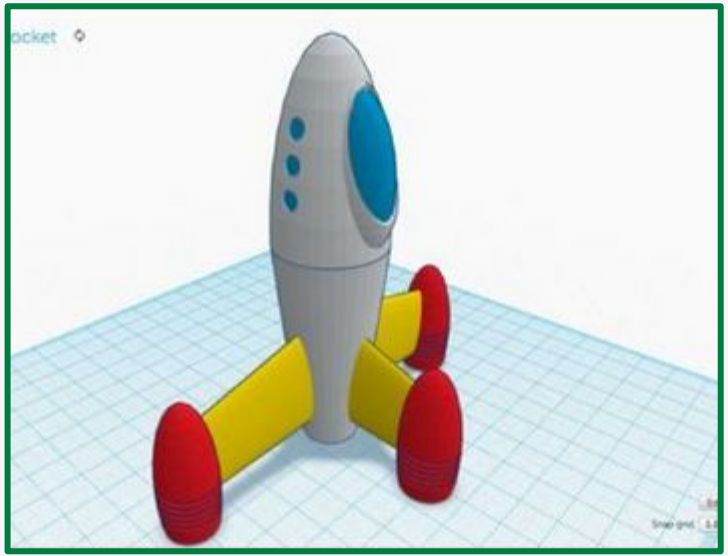

Import
Export
Share
SVG Revolver
Workplane
Ruler
Solid
Hole
Community
Featured Shape Generators
Sketch Height
5
Inside Diameter
10
Number Of Sides
24
Sketch Rotation
0
Revolve Angle
300
Picture
Incredible Tumelo (1).svg
Or choose one
Accepts *.svg under 50 KB for best results
Pixels from array by this tinkerer
Extruded curve by this tinkerer
SVG Revolver by this tinkerer
Flower by this tinkerer
Snap and Socket by this tinkerer
Box and Lid by this tinkerer
Extrusion by Tinkercad - P...
Voronoi by Tinkercad - P...

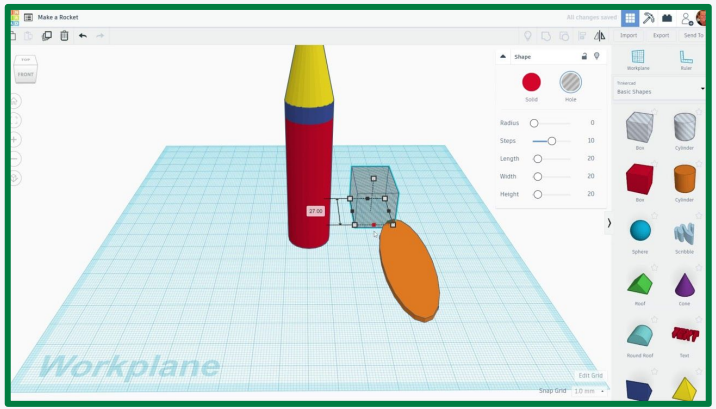
Keep combining shapes

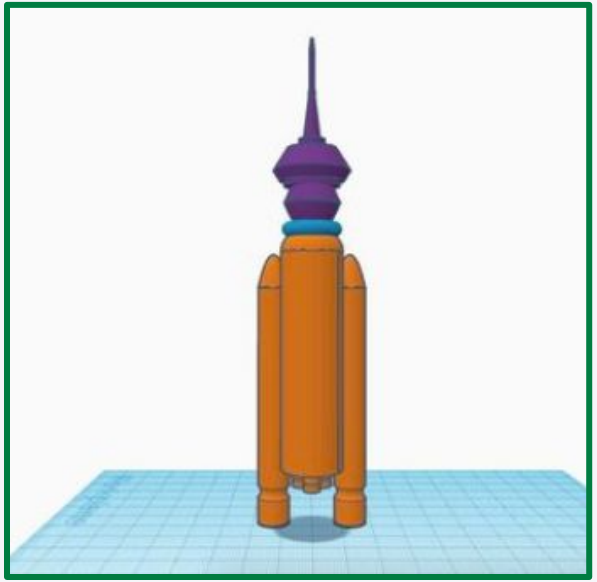


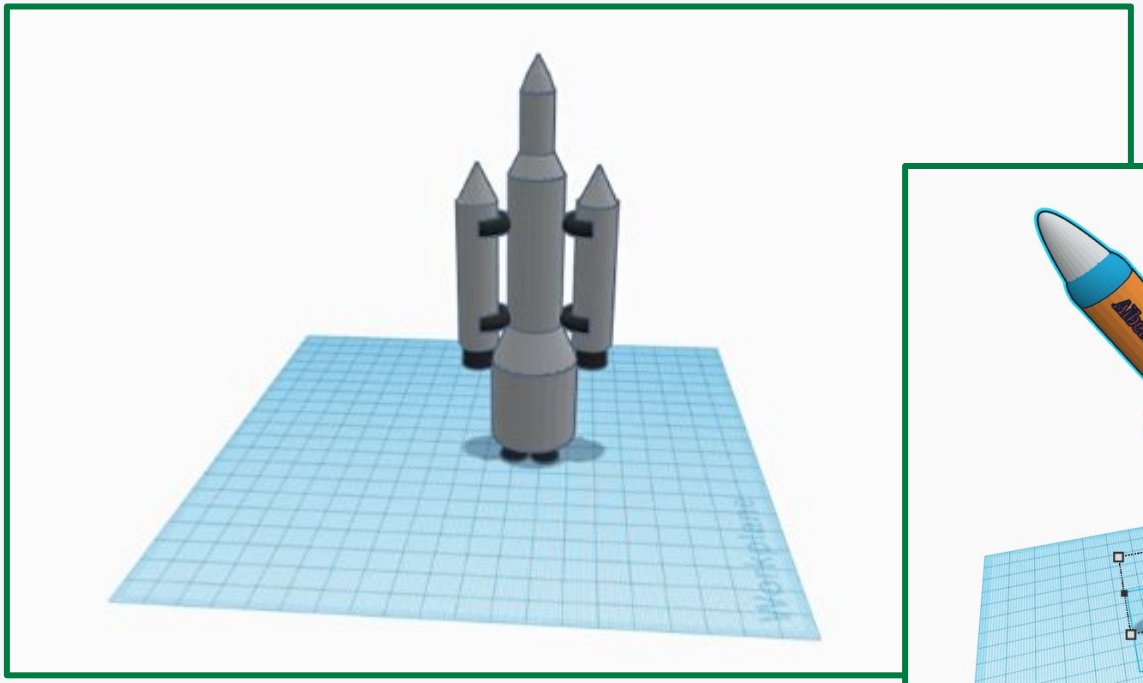


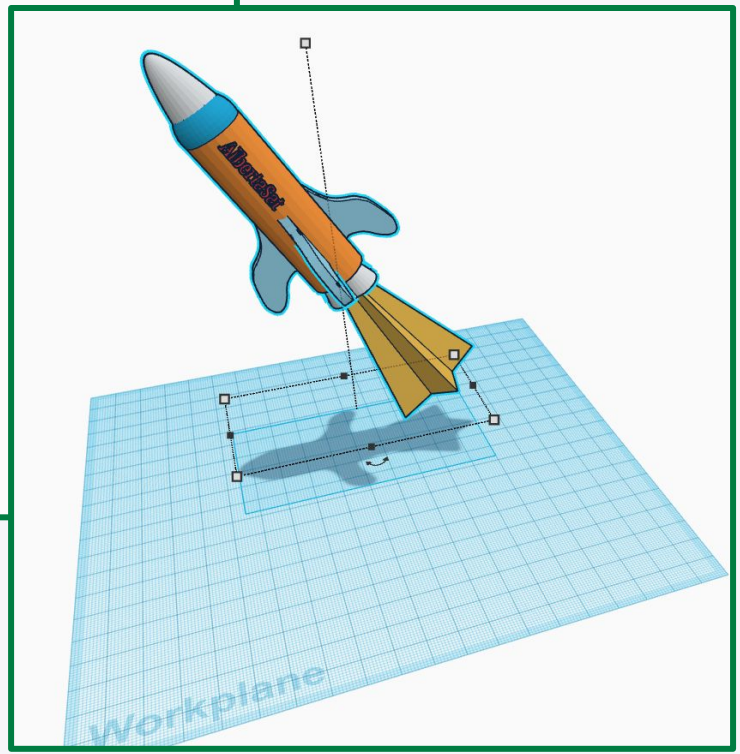
Be creative!











Be creative!