

Tap and Die Tinkercad Assignment

Step 1: Create a Tinkercad account (don't worry, it's free)

Step 2: Tinkercad has learning tutorials built in its program, so the program helps you learn.

Step 3: Feel free to watch youtube videos as well. Many people have already created the tools that you are wanting to create and they are learning videos.

Step 4: create your project with the following parameters:

- a) Create a bolt that has a hex head (6-sided), the total width should be 2 cm, the height 1 cm.
- b) The length of the bolt should be 3 cm excluding the head of the bolt.
- c) The width of the bolt should be 1 cm.
- d) You can choose the type of thread.
- e) The nut should be a hex shape as well, and 2 cm in width, and the height 1 cm.
- f) The thread of the nut will need to match the thread of the bolt.

Once you have completed your assignment, call your Mechanics 10 Instructor, and your instructor will schedule a zoom video call. Remember that your instructor's office number is in the signature of his/her email.

Grading: The total will be 10 marks that your instructor will assess you on, based on the proficiency of the draft from the zoom call. Some things you will be graded on are:

1. Proficiency of using Tinkercad.
2. Changing dimensions of objects.
3. Knowing how to group & ungroup objects together.
4. Knowing how to align objects.