Working in 3D with TinkerCad

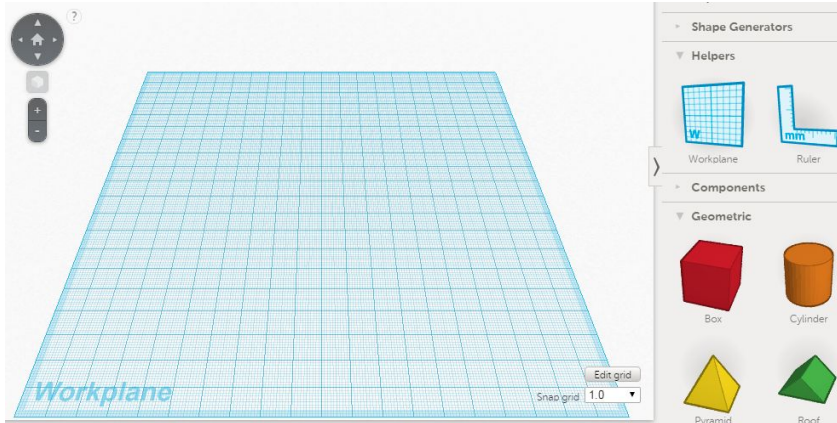## Drag the red box to the work plane with the mouse.

Click on it and try to make it different sizes.

(Hint: the corners and edges have little black boxes that control the size.)

Move it up and down. Left and right. Forward and backward.

(Hint: use your arrow keys & the little black cone allows you to move it on the Y axis)

Try to rotate it along all three axis.

(Hint: look for the curved arrows)

Try playing with more shapes and other built-in objects.

Frustrated? Don't worry - it takes time to get used to it. You are developing your 3D skills and it takes practice for it to feel natural to think and work this way.

Reflect:
- How does it compare to working with 2D files such as Word or email?
- If you did the basic shapes exercise, how does it compare to working with your hands in the real world?
- What are the advantages of using digital modeling?

Drag the ruler tool from "Helpers" and place it near your square.
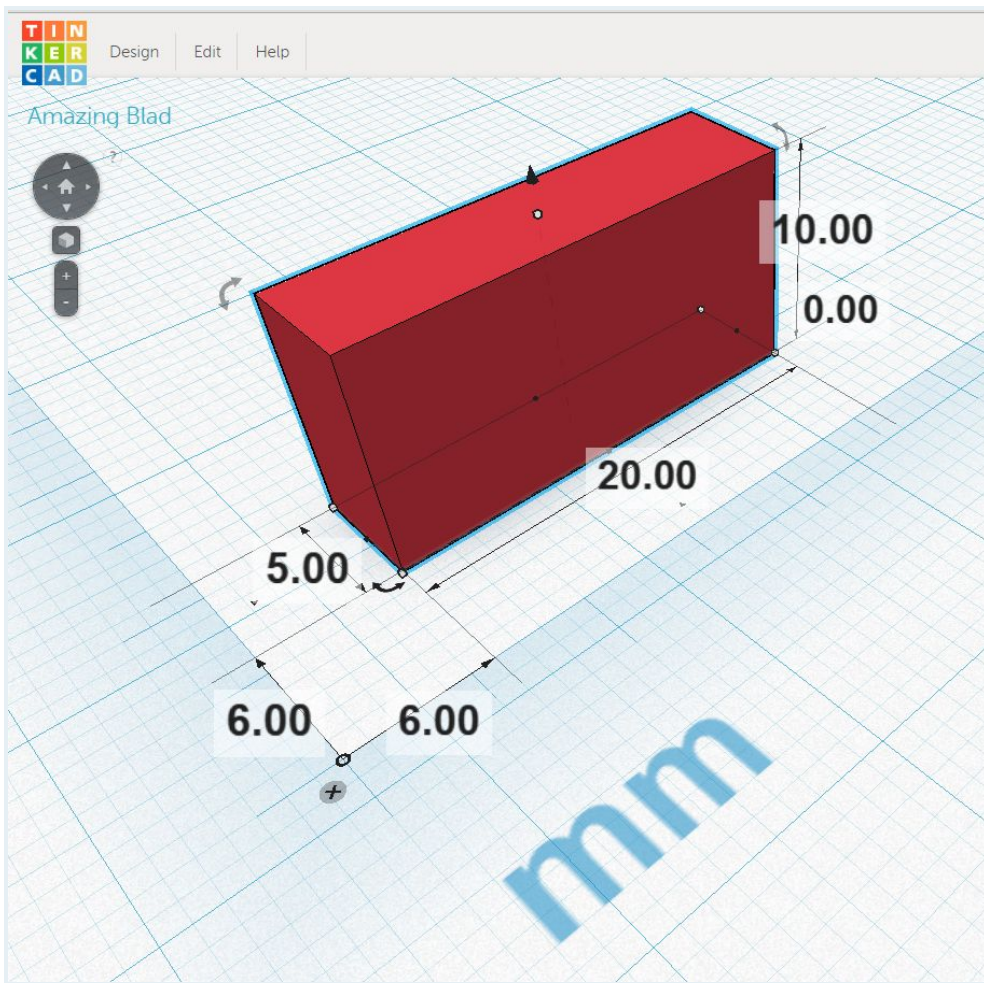
Can you find the numbers for each of the 3 axis? (x, y, z)

(hint: mm equals millimeters)

Can you click and change them?

Play with the controls and see what you discover.

Practice your skills

- **A great place to start with TinkerCad is their beginner friendly step by step, guided lessons. Go to: www.tinkercad.com/quests/**

- **Those exercise go very well with the Lynda.com course: "Up and running with TinkerCad" (Coming to your library soon)**

- **Print designs you find and your projects on our 3D printer. Ask us how!**