inventHQ
BROOMFIELD LIBRARY MAKERSPACE

3D Printing Resources -

What is 3D Printing - Are you curious about 3D printing, materials used, or getting started? This is a great introductory resources to find out more!

Tutorials on Tinkercad - Tinkercad is a free cloud based 3D modeling site. This link includes starters, lessons and projects.   Be sure to click on "Learn" for step-by-step lessons.

Tutorials on Blender - Blender is a free and open source 3D creation suite. They have a wide selection of tutorials.

Thingiverse - Wondering where to find designs that you can use or modify yourself? Try thingiverse! This is an online repository of 3D models that have been uploaded for your use.

Instructables classes - From 3D Design to Molds and Casting there's a lot to see here.

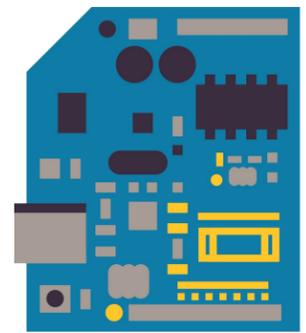3D Printers at invent**HQ** - Wondering how to use our printers? Find out here.

Electronics Resources -

Beauty and the Bolt - This YouTuber has wonderful, informative and funny videos on several STEAM and Maker topics. To highlight a few:
- Electricity 101: Charge, Current, Resistors, OHM MY!
- How To Solder
- How to Use a Multimeter || Measure Voltage, Current, Resistance - EASY!

Resistor Color Guide - Ever mix up your resistors? Or just been curious about the markings on them? Check out this guide!

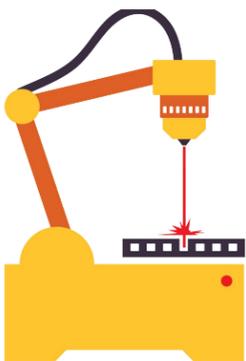Instructables Classes - From Arduino to Solar check out these free classes.

Laser Cutting Resources -

Inkscape Beginner Tutorial Videos - Inkscape is the software we use for design on the laser cutter at invent**HQ**. Have you been curious about how to utilize the software? Or eager to learn more? Try these!

Get started quick! - Want to dive in? This guide will get you the bare essentials to get started.

Make a Keychain! - A keychain is an ideal first laser project. Check here to learn how to make your own!

Invent**HQ** Laser Cutter FAQ - You've had questions, we have answers!

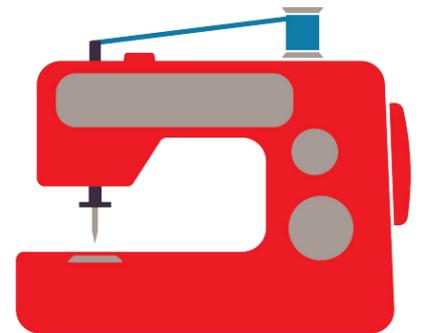### Sewing and Embroidery Machine Resources -

How to Create an Embroidery FIle with SewArt -We use SewArt to design our files for digital embroidery and this guide will walk you through the process!

How to sew a lined Zipper Pouch - Give this video guide a shot if you are curious about inserting a zipper in your sewing or looking for a great project to get you started in sewing!

Instructables Classes - From Hand Embroidery to Wearable Electronics take a peek at these free classes.

Invent**HQ** Sewing Machines - When can I use them? What kinds? Wait... digital embroidery? Find out answers to these questions here.

Electronic Cutter Resources -

Let's Make a Sticker - A great beginner's guide to silhouette this tutorial will walk you through creating a file to create a single color sticker.

Silhouette School - Are you curious about the silhouettes, and the scope of what they can do? This blog is a fantastic resource for learning more about the Silhouette Software.