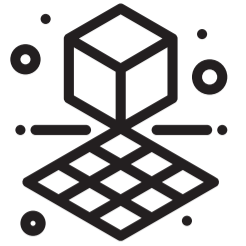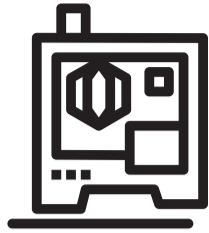# MAKERSPACE

## Skill Tree:  Color in the boxes and level up your skills

Use for individuals or as a group by picking a colour each and coloring in a part of the box.  Everyone's journey is different and you can interpret the goals flexibly.  The aim is to inspire you to learn and try new things. Not everything needs to be completed.

**ADVANCED**

**BASICS**

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

Build a robot with Arduino

Teach a class on a Maker Skill

3D Print something on fabric

Do a wearable tech project

Create a design using vector software and cut with the vinyl cutter

Make a model in a sculpting software
eg. Blender, Z-brush, MudBox, Maya, etc

3D Scan, fix and print a model

Get 3D scanned and print a model of yourself

Design, print and assemble something with multiple parts

Make a project with a Raspberry Pi

Fix something with 3D printing

Fix broken electronics with the soldering iron

Make a circuit that includes a button or switch

Create a design using vector software

Embed electronics, magnets or something else inside a 3D print

Sew something practical

Create and 3D print a model in MeshMixer

Use an overlocker

Design a two colour print in Fusion 360

Print a tool of some kind

Design and print something with press fit parts

Iterative design: Print something again after making improvements

Reverse engineer something in CAD software

Use heat set threaded inserts in a part

Create a render in an CAD software

Use the lab power supply unit to provide voltage to a project

Use a conveyor belt printer

Repair something that's broken with 3D printing

Use a vinyl cutter to make a sticker

3D Scan something

Use the badgemaker to make badges

Create a model in a CAD software

Use the hot air gun

Teach someone how to 3D Print

Wind your own thread into a bobbin

Print in two colors or materials

Learn to read a schematic

Make something with Arduino

Do a hot pull and cold pull cycle to unclog a nozzle

Have a spectacular print failure, with lots of spaghetti

Use the Arduino Serial Monitor

3D print something on fabric

Model and print something that solves a problem

Buy something pre-made and laser etch it

Measure voltage with a multimeter

Solve a problem with laser cutting

Laser Cut something from acrylic

Print something for the home

Use spiralise or vase mode to print something

Have a failed print and fix the problem

Learn to desolder a through hole component

Use laser cutting and engraving in the same project

Use the calipers to measure something

Use a zigzag stitch on a sewing machine

Use 3D Builder to help you prepare a model for printing

Create something from Customizer on Thingiverse

Learn sewing machine basics

Print an articulating or print in place model

Learn to use wire strippers

Learn to use a drill

Prototype a project with cardboard

Light up an LED for the first time

Learn to Solder

Use an FDM printer for the first time

Use a laser cutter for the first time

Print a gift for a friend or family member

Put on your first 3D Print

Learn to use a breadboard

## START | HERE

Name: _____

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