3D PRINTING

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

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

Build your own 3D printer

Create a project how-to guide

Send a file to your printer wirelessly

Teach a class on 3D Printing or 3D modeling

Print in Nylon or ASA material

Try heat annealing a part to make it stronger

Print something that isn't plastic
eg. Food, clay, Pancake

Use a multi material 3D Printer

Print something large

Acetone smooth an ABS part

Make your own filament

Reverse engineer something in CAD software and print

Try a different Slicing Software

Print something in metal or metal-like material

Sand and paint something you've printed

3D Model something and upload it under an Open Source licence

Use heat set threaded inserts in a part

Get 3D scanned and print a model of yourself

Mod your 3D printer with something 3D printed

Recycle filament or failed prints

Print something to wear

Print something again after making design improvements

Print a gift for a friend or family member

Teach a friend how to 3D Print

Print a mould for a casting project

Sell something you've 3D printed

Print something for cosplay or prop making

Repair something with 3D printing

Print in a flexible material

Install and use a non-standard nozzle

Make a lithophane from a photo or image

Use PVA dissolvable support material

Print something that requires more than 1kg of filament

Mix your own resin blend

Print in ABS or PETG material

Print in two colors or materials

Upload a remix of a 3D model

Use ironing in slicing software

Embed electronics or magnets inside a 3D print

Have a print failure with lots of spaghetti

Use spiralize or vase mode to print something

3D print something on fabric

Model and print something that solves a problem

Edit an existing model and print

Use advanced slicer settings

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

Change a nozzle for the first time

Print something functional

Learn how to do maintenance on a 3D printer

Create something from Customizer on Thingiverse

Learn about Precious Plastic recycling

Have a failed print and fix the problem

Print something with multiple parts and assemble

Print a model with tree supports

Print an organizer for the home

Calibrate a resin printer

Accidentally break a print while removing support material

Print in PLA material

Use a resin printer for the first time

Print an articulating or print in place model

Use an FDM printer for the first time

Set up a resin printing PPE and wash & cure station

Learn how to safely handle 3D printer resin to avoid chemical burns

Learn about 3D printer fumes, extraction and safety

Visit your local makerspace

Learn to use slicing software

Pick a simple 3D Model to print

Learn how to level your print bed manually

BASICS

START HERE

1 tile = 1 point

Total Score

Name: _____

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