## **3D PRINTING**

## Skill Tree: Color in the Boxes

Color in the boxes of anything you've already completed, visualize your skills and identify your skill gaps. Get inspired to try new things and tailor the skill tree to suit your own journey by swapping in your own goals.



(set your own goal) smooth an ABS part Try heat annealing a part to make it stronger

threaded inserts Try a different Slicing Software

Teach a friend how to 3D Print

(set your own goal)

Acetone

Use heat set

in a part

Make a lithophane

from a photo or image

Use advanced

slicer settings

Have a failed print

and fix the problem

Send a file to a

printer wirelessly

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Recycle filament or failed prints

Print something

for cosplay or prop making

Mix your

own resin blend

Use ironing in slicing software

Use spiralize or vase mode to print something

Print something functional

Print an organizer for the home

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Set up a resin printing PPE and wash & cure station

for the first time 

Use a resin printer

Learn to use slicing software (set your own goal)

Build your own 3D printer e.g., Voron, RatRig

Print something

that isn't plastic 

Print something in metal or metal-like material

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Repair something with 3D printing

Print in ABS or PETG material



Print something to wear



3D print something on fabric

Learn how to do maintenance on a 3D printer



Calibrate a resin printer



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

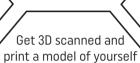


**START** 

Teach a class on 3D Printing or 3D modeling

Make your own

filament



Print a mold for a casting

> project 000 000

Use PVA dissolvable support material



**Embed electronics** or magnets inside a 3D print

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Print an articulating or print in place model

Learn how to load and unload filament or resin



Print something with multiple parts and assemble



Pick a simple 3D Model to print



(set your own goal)

Print in Nylon or

ASA material

Reverse engineer

something in CAD

software and print

Mod your 3D

printer with something

Create a project how-to guide

Use a multi material 3D Printer

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Sand and paint something you've

printed F





Print in a flexible material



Print in two colors or materials



Model and print something that solves a problem



Print a model with tree supports



Print a compliant

break a print while



Learn about 3D printer fumes, extraction and safety



Learn the differences between resin and FDM printers

Have a print

failure with lots of

spaghetti

Use an FDM printer

for the first time



(set your own goal)

3D Model something and upload it under an





Print a gift for a friend or family member

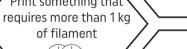


Sell something





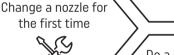
Print something that



of filament



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



Learn about Precious Plastic recycling







Visit your local makerspace



1 tile = 1 point

**Total Score** 

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