

a part to make it

stronger

U1

Try a different

Slicing Software

Recycle filament

or failed prints

Print something

for cosplay or prop

making

Mix your

own resin blend

Learn how to

do maintenance

on a 3D printer

Print something

functional

Calibrate

a resin printer

Learn about

3D Printer fumes,

extraction and safety

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. (set your own goal) **Build** your Create a project own 3D printer how-to guide :

Make your own

filament

Get 3D scanned and

print a model of yourself

Print a

mould for a casting

project

Use PVA

dissolvable support

material

or magnets inside a 3D

print

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Do a hot pull and

cold pull cycle to

unclog a nozzle

Print something

with multiple

parts and assemble

رهها

Print an articulating

or print in place model

Send a file to your Teach a class on 3D printer wirelessly Printing or 3D modeling Try heat annealing Print something

> that isn't plastic eg. Food, clay, Pancake Acetone smooth an ABS part

Print something in metal or metal-like material Use heat set T

threaded inserts in a part Print something

Teach a friend how to 3D Print

Repair something with 3D printing

Make a lithophane

Use ironing

in slicing software

Use advanced

slicer settings

Visit your local

makerspace

9

Set up a resin

printing PPE and

wash & cure station

Learn to use

slicing software

from a photo or image Print in ABS

or PETG material **Embed electronics**

to wear

3D print something on fabric

Use spiralize or vase mode to print

something

from Customizer on Thingiverse

Use a resin printer for the first time

> Pick a simple 3D Model to print

START

HERE

for the first time

Accidentally

break a print while removing support material

Learn how to level your print bed manually

Print something large

3D Model something

and upload it under an

Open Source licence

Install and use a

non-standard nozzle

Upload a remix of

a 3D model

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Edit an existing

Reverse engineer something in CAD software

Print in Nylon or

ASA material

Use a multi

material 3D Printer

Sand and paint

something you've

printed

W

Print something

again after making

design improvements

Print in a flexible

material

Print in two

colors or materials

Model and print

something that solves

a problem

Have a failed print

and fix the problem

Precious Plastic

recycling

2

. Use an FDM printer

Mod your 3D printer with something 3D printed

Print something that makes a noise

Sell something you've 3D printed

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Print something that requires more than 1kg of filament

Have a print failure with lots of

spaghetti

model and print رع Change a nozzle fo

the first time

Print a model with

tree supports

فببب

Print a gift for a friend or family

member

Print an organizer for the home



Print in PLA material

1 tile = 1 point

Total Score



