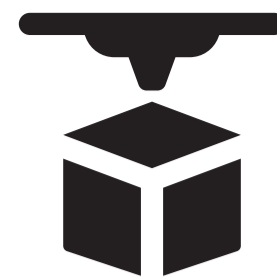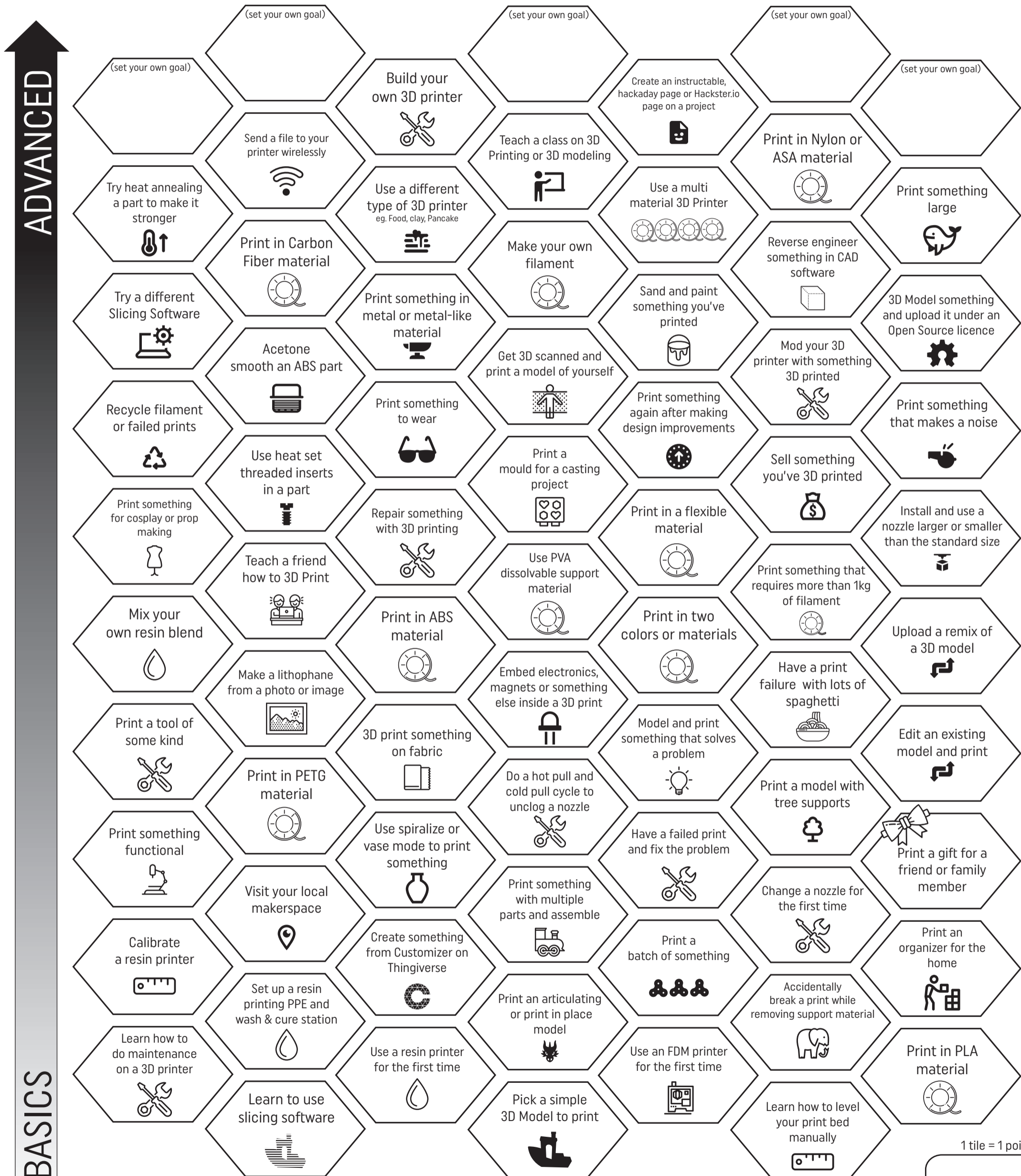# 3D PRINTING

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

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 your own 3D printer
- Send a file to your printer wirelessly
- Teach a class on 3D Printing or 3D modeling
- Create an instructable, hackaday page or Hackster.io page on a project
- Print in Nylon or ASA material
- Try heat annealing a part to make it stronger
- Use a different type of 3D printer eg. Food, clay, Pancake
- Use a multi material 3D Printer
- Print something large
- Print in Carbon Fiber material
- Make your own filament
- Reverse engineer something in CAD software
- 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
- Acetone smooth an ABS 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 something that makes a noise
- Use heat set threaded inserts in a part
- 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 nozzle larger or smaller than the standard size
- Teach a friend how to 3D Print
- Use PVA dissolvable support material
- Print something that requires more than 1kg of filament
- Mix your own resin blend
- Print in ABS material
- Print in two colors or materials
- Upload a remix of a 3D model
- Make a lithophane from a photo or image
- Embed electronics, magnets or something else inside a 3D print
- Have a print failure with lots of spaghetti
- Print a tool of some kind
- 3D print something on fabric
- Model and print something that solves a problem
- Edit an existing model and print
- Print in PETG material
- Do a hot pull and cold pull cycle to unclog a nozzle
- Print a model with tree supports
- Print something functional
- Use spiralize or vase mode to print something
- Have a failed print and fix the problem
- Print a gift for a friend or family member
- Visit your local makerspace
- Print something with multiple parts and assemble
- Change a nozzle for the first time
- Calibrate a resin printer
- Create something from Customizer on Thingiverse
- Print a batch of something
- Print an organizer for the home
- Set up a resin printing PPE and wash & cure station
- Print an articulating or print in place model
- Accidentally break a print while removing support material
- Learn how to do maintenance on a 3D printer
- Use a resin printer for the first time
- Use an FDM printer for the first time
- Print in PLA material
- Calibrate a resin printer
- Learn to use slicing software
- Pick a simple 3D Model to print
- Learn how to level your print bed manually

START HERE

1 tile = 1 point

Total Score

Name: _____

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