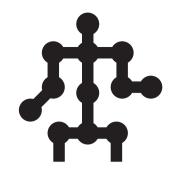
## **3D MODELING**

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

Use for individuals or as a group by picking a color 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)

Make something for VR or AR

Sculpt something

from a reference

photo

Teach a class on 3D modeling 

(set your own goal)

3D game

Create a simple

(set your own goal)

Upload a your project

(set your own goal)

Stress test a model in an engineering CAD software

(set your own goal)

Try out a game

and workflow online 5

Use mathematics to create a 3D model eg, Grasshopper with Rhino 3D Design a compliant

engine

Animate something you've sculpted

Make a CAD model

3D Model something and upload it under an

mechanism **(B)** 

Create a 'toon'

Use deformers

of your room, work or home

M

Design, print and assemble something

with multiple parts

孙 Create a customizable

shader

Rig something

you've sculpted

to animate a model

Sell something you've 3D modeled

Design an articulating or print in place model

Open Source license

model in OpenSCAD **<>** 

Texture a 3D model with realistic texturing 小

3D model a character

3

Iterative design: Make improvements to a 3D model

| V2

Design something to be assembled with Animate an engineering CAD model

///

Use bones & weight painting to rig a model

Retopologize

a 3D model

Design a custom model for cosplay

> Design something to be 3D printed in specialized material

different materials

Reverse engineer something in CAD software

Create a texture in a texturing package, eg. Substance Painter. Blender Mudbox

Animate a crane rig

Make a model in a sculpting software

27

Design something to be printed in two colors

Design something to be made from a flat material eg. sheet metal, papercraft

Design a model

UV unwrap a complex object (UDIMs)

0

Rig a crane

object with FK/IK

Change the camera settings when rendering

Teach a friend

or materials

Use a Slicing Software for preparing to 3D print a model

to embed electronics or magnets

Capture a texture from the real world 小

Use HDRI's to create realistic lighting

how to 3D model

Render a model in an engineering

Make a 2D schematic of a 3D model

**///** 

Animate a 3D rig from a free model eg. ball or pendulum rig 0/

Get 3D scanned or 3D scan something

Create a model in an engineering CAD software

Edit a texture in an image-editing software

Modify edge

normals for low poly

asset design

Light and render a 3D object turntable

Use boolean tools

Model and make something that solves a problem

CAD software

Design something for 3D printing

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Design a custom model for a friend

low-poly object

火

point light setup

0-

Assemble a 3D

model with free

assets

zoom

火

in 3D software

Use an SVG file to make part of a 3D model

6

Create a model

in MeshMixer or

TinkerCAD

لكتا Use the extrude

tool in 3D software

Use the revolve tool in 3D software

Apply a material type to a 3D model

**///** 

Know how to check

size in 3D software

Make a low

poly model

Learn about different 3D Model file types

.STL .PLY .3MF...

FREE

Learn to navigate a 3D interface with pan, orbit and

Draw a detailed sketch with dimensions before 3D modeling

a 3D model رع

Make a remix of

**Total Score** 

1 tile = 1 point

Name: .





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