Helpful 3D Printing Links

**Safety (key words:** 3D printing +safety)

<https://youtu.be/opgjPxcwd_w> Safety Tips for FDM/FFF 3D Printers - 3DP101

<https://youtu.be/a7l0Aaysy_8> Do 3D Prints Catch Fire? ABS / PLA / PETG Burn Test - Episode 1

**Basic printing (key words:** 3D Printing +Beginner +Guide)

<https://youtu.be/3LBTkLsjHGQ> The Ultimate Beginner's Guide to 3D Printing - Part 1

<https://youtu.be/VN1RO1Oey-w> The Ultimate Beginner's Guide to 3D Printing - Part 2

<https://youtu.be/Sqh3FM12KVg> 3D Printing: 13 Things I Wish I Knew When I Got Started

**No support printing (key words:** 3D Printing +"Support Free")

<https://youtu.be/SBHHwid7DWM> Design Tips for Support Free 3D Printing Models (FDM)

**Overhangs (key words:** 3D Printing +Overhang +supports)

<https://youtu.be/2NGdv86D1x8> How to deal with overhangs - Tips & Tricks #11

**Good First layer (key words:** 3D Printing +"first layer")

<https://youtu.be/AaF28dnDgKA> Basics: 5 ways of getting your 3D prints to stick!

<https://youtu.be/t58-WTxDy-k> How to get your 3D printed parts to stick to the bed and avoid curling/warping

<https://youtu.be/Fo42S22BTwg> How to get the Perfect First Layer - 3DP101

<https://youtu.be/MW2_ZQlOIaE> Magigoo vs Glue Stick: Hold down your 3D Prints! Test and Review

**Setting the Filament fan best practices (Key words:** 3D printing +"print fan")

<https://youtu.be/6IafgrN2v-w> Setting the print fan - Tips & Tricks #12

**Supports (key words:** 3D printing +"Supports", 3D printing +"custom Supports" )

<https://youtu.be/piwKAOOaPKc> Advanced Support Generation Tips for Simplify3D - 3D Printing Masterclass

<https://youtu.be/OXFKVmMwXCQ> How to create custom supports in Meshmixer

<https://youtu.be/DZavbiV7IwQ> Cura Support Settings - PLA

<https://youtu.be/YEXsBMEj6YM> How To: 3D Print Using Supports // 3D Printing Guide

**Print orientation (key words:** 3D printing +Orient +orientatio)

<https://youtu.be/JGhgaypou6E> How to Orient 3D Prints - 3D Printing 101

<https://youtu.be/_uvV6z2ogTs> Positioning objects for printing - Tips & Tricks #10

**Layer height (key words:** 3D printing +"Layer Height")

<https://youtu.be/eAEHHzUPChY> What is Layer Height and Nozzle Diameter? - 3D Printing 101

**Infill General**

<https://youtu.be/UuzcXsqiVX0> What is Infill? 3D Printing 101

**Troubleshooting**

<https://youtu.be/aWg1nG2AbA8> 5 3D Printing Mistakes you WILL make - and how to avoid them! 3D Printing 101

<https://youtu.be/NQxq8suWihY> Diagnosing and Fixing an Unknown 3D Printing Failure

<https://youtu.be/KaFp6Eqk0QI> Ghosting in 3D Prints - What is it and how do you fix it?

<https://youtu.be/c5MSns79z58> Reduce Ghosting in 3D Printing

**Warping**

<https://youtu.be/HNAtHl6kB7Y> Understand WHY 3D prints WARP

**Stringing**

<https://youtu.be/XZTBSJAswbs> Stop the stringing with Retraction! 3D Printing 101

**Clogged Nozzle**

<https://youtu.be/MGt8cnVIKW8> 3D Printing 101: How To Fix a Clogged Nozzle Using a Cold Pull!

<https://youtu.be/7LVu3Ir10UQ> 3D Printer - Quality Printing with Cooling Fans

**Fixing STL files**

<https://youtu.be/ynG-QL8aZHk> Fixing STL files - Tips & Tricks #9

**Slicer settings**

<https://youtu.be/0ZMe7TSJ6nY> 3D Printing SETTINGS EXPLAINED - for Beginners

<https://youtu.be/J0AwlUTd0L4> 7 Settings to Improve your 3D Prints

**Filament**

<https://youtu.be/jN26oXPNZd0> Things you should know about your filaments

<https://youtu.be/Or1FP43zx3I> Guide to 3D Printing Filament! PLA ABS PETG TPU PEEK ULTEM

<https://youtu.be/unmvWkfpmRE> Things you should know about PLA

<https://youtu.be/YCdvL87bv0w> Things you should know about ABS

<https://youtu.be/8_adY2K-YIc> Things you should know about PETG

<https://youtu.be/ACRh51hdBxo> 3D Printing in TPU - Tips and Tricks

<https://youtu.be/fTJz6vMvtJ8> 3D Printing with Flexible Filaments (on stock hardware!) - 3DP101

<https://youtu.be/MXoiqWxPuwM> 3D Printing Flexible Filament Comparison Part 1

<https://youtu.be/uR_xVABJhig> 3D Printing Flexible Filament Comparison Part 2

<https://youtu.be/KhYfhACp8tU> Things you should know about flexible filaments and Nylon

<https://youtu.be/yRw2mC_6A00> 3D printing Polypropylene (PP) filament

<https://youtu.be/LTmuwfyYUJQ> 3D printing with carbon fibers

**Filament Strength**

<https://youtu.be/mwS_2R2mIvo> Printing PLA at 265°C? How does printing temperature affect strength?

<https://youtu.be/qif070PErNU> 3D Printing with PETG - How does the printing temperature affect strength?

<https://youtu.be/te0Wwf7Dxj4> Which is the MOST RIGID 3D printing material?

<https://youtu.be/FAXUjZZER5E> Why you need to dry your filaments!

<https://youtu.be/CZX8eHC7fws> Bake your PLA and have it outperform everything else!

<https://youtu.be/vLrISrkg46g> What's the temperature resistance of annealed PLA, PETG and ABS?

**Stronger parts (settings)**

<https://youtu.be/1NzDr1YAb8Q> 3D Print Stronger Parts! 3D Printing 101

<https://youtu.be/AmEaNAwFSfI> INFILL pattern and SHELLS - How to get the maximum STRENGTH out of your 3D prints?

<https://youtu.be/upELI0HmzHc> TESTING 3D printed INFILL PATTERNS for their STRENGTH

<https://youtu.be/q0YsC53mFvY> Load dependent Infill placement: Smart Infill for FDM 3D prints!

**Printer tolerances**

<https://youtu.be/TYuLVN3YHw8> How Accurate is your 3D Printer? Take the Tolerance Test!

<https://youtu.be/XnJBpCWf9Mc> Test your 3D Printer's Clearance and Tolerance

**Hardware**

<https://youtu.be/il9bNWn66BY> Autoleveling on 3D printers: 9 myths and 12 sensors tested!

<https://youtu.be/APzJfYAgFkQ> 3D printing guides - Using Marlin's PID autotune

**Nozzles**

<https://youtu.be/XvSNQ7rVDio> Everything about nozzles with a different diameter

<https://youtu.be/tDq1Du9gaWM> How to pick a 3D printer nozzle and how to install it!

<https://youtu.be/LHg9phNSCEY> How to Print with Extremely Fine Nozzles - Quality Comparison

<https://youtu.be/jyhLQUQTc9E> 3D print bigger, faster and stronger with a larger nozzle.

**Post processing**

<https://youtu.be/znkbwajT100> Removing Tough Supports on 3D Printed Miniatures

<https://youtu.be/dxOV4OAifzY> 3D Printing Education: Removing Support Structures

<https://youtu.be/l6dI3RDorwk> Basics: How to post-process your 3D prints!

<https://youtu.be/Tn0lBzhbntE> How to Post Process Your 3D Printed Props For Cheap

<https://youtu.be/BYhz-WIvsl8> Comparing Post Processing Techniques for 3D Prints

<https://youtu.be/0KU0lgoC42Q> MakerBot Learning | Post-Processing: Sanding

<https://youtu.be/03fwhsUju90> MakerBot Learning | Post-Processing: Gluing

<https://youtu.be/Jz_s7sJOlMU> MakerBot Learning | Post-Processing: Painting

<https://youtu.be/xm5T07mUU68> MakerBot Learning | Post-Processing: Inserts

<https://youtu.be/NLoB52nPuao> Finishing 3D Prints 101: How to Sand 3D Printed Parts

<https://youtu.be/rn4edNztaPU> Easy Way to Smooth PLA | No Sanding

<https://youtu.be/yyoefQ4k4BA> Super Smooth Prints // Acetone Vapor Bath

**Gluing 3D prints** **(key words:** 3D printing +"glue")

<https://youtu.be/JSff8OMRHtw> 3D printed AIRPLANE - Messerschmitt Bf 109 || PART 2 - Which GLUE to choose?

<https://youtu.be/BstHc6FD7vQ> Testing 3D Print Bonding Methods with Punished Props (Glue/Epoxy/Welding)

**Maker Coin**

<https://youtu.be/ZlnNCyigTec> What is a Maker Coin and should you design one?

<https://youtu.be/tGtNLpYSXOU> Fusion 360 for Beginners - Design and 3D Print a Maker Coin! CAD For Newbies

<https://youtu.be/Kv1xYpV_yS4> Fusion 360 Tutorial to Create a Maker Coin for 3D Printing

**Slicer**

<https://youtu.be/F7JuMa35IjA> Top 3 FREE 3D Printing Slicers 2017

<https://youtu.be/eUNTlb5pEWA> Cura 3D Slicer for Beginners! In Depth Tutorial

**Modelers**

<https://youtu.be/Cuqao90C76U> Top 3 FREE 3D Design Software 2019

**Model creation**

<https://youtu.be/dgwdJsnx5mg> The Ultimate Fusion 360 Tutorial for Beginners - Part 1

<https://youtu.be/fb9kT7l1msg> The Ultimate Fusion 360 Tutorial for Beginners - Part 2

<https://youtu.be/60xfIu-lqAs> Getting Started in Tinkercad: A Tutorial for Complete Beginners

<https://youtu.be/w0GgOKlbFkA> 123D Design Tutorial - Basics 1/6 - Introducing the Workspace

**Octopi (key words:** Octolapse)

<https://youtu.be/CjOIxKxb3h8> Complete Octolapse Guide - Tips, tricks and troubleshooting for 3D printing time lapses

**Things you can make**

<https://youtu.be/a9AcVkWvYZY> Fume Extractor Desktop Fan // 3D Printing

<https://youtu.be/WEFtUKGAd7k> Filament Dry Box || How to properly store and 3D print Nylon, PC, TPU, PVA

<https://youtu.be/RvTTQqqWIWA> DIY Heated DryBox for 3D Printing filament

<https://youtu.be/dpK-99uf0UU> MakerBot Learning: Post Processing: Silicone Molding 1

<https://youtu.be/JbKsjvmxtp4> MakerBot Learning: Post-Processing: Silicone Molding 2