



3D Printing Guidelines

Materials:

- ✓ PLA is the material most objects are printed with in the Makerspace. It is the least expensive and easiest to print with material.
- ✓ Advanced materials (PVA/BVOH/TPU/Wood-based PLA) can be used once you have printed a few (2-3) objects and where they make sense for the print.
- ✓ Do a test print with PLA before you try a new print with more advanced materials, especially if it is a big print.
- ✓ Large or complex prints using advanced materials may be referred to the Makerspace Librarian.



Settings:

- ✓ Start with these settings unless you need different settings for a specific reason:
 - Infill: 10-20%
 - Resolution: 0.15-0.2mm
 - Adhesion: on
- ✓ We want you to experiment with settings, but test them on a small print first if you have not used them before.
- ✓ Talk to staff before changing advanced settings in Cura or any settings on the 3D printers.
- ✓ When you are done, reset the settings for the next person.

Support:

- ✓ For most things use PLA as your support material.
- ✓ When using PVA/BVOH as support material use the “interface” setting for big items to increase the chance of it working.

General tips:

- ✓ Explore how changing the orientation of an object can decrease the print time, the need for support material, or increase the quality of the print.
- ✓ Try prototyping large or complicated objects by printing smaller test versions or parts of objects first.