



3D Printers

Specs

- Prusa i3 MK3S 3D Printer
 - Build Volume: 25 x 21 x 21 cm / 9.84 x 8.3 x 8.3
 - Accepted files: STL / OBJ
 - Cost: \$0.05 per gram

Material

Available in Workshop:

- 1.75mm PLA
 - Various colors available

Contact

Phone : 847-907-3600 ext. 180
 Email: workshop@palatinelibrary.org

Lab Hours

- Tuesday-Thursday 12:00 - 6:00 p.m.
- Saturday-Sunday 12:00 - 4:00 p.m.



Scan for more

• What is it?

This equipment is used to construct three dimensional objects that have been designed in 3D software.

• What can it make?

Perfect for small scale prototyping and more including:

- Figures and Models
- Personalized Gifts
- Useful tools
- Various toys and accessories

Items printed are not food safe.

Examples:

- Phone stands and cable accessories
- Fidget toys
- Desk and game organizers



Additional Resources

One-on-One Appointment

Set up a one on one consultation for your project
<https://www.palatinelibrary.org/services/appointments>

LinkedIn Learning

Access to various online courses to master the skills needed to complete your project
<https://www.linkedin.com/learning-login/go/palatinelibrary>

CreativeBug

Browse various project ideas and courses centered around crafting, sewing, and more
<https://www.creativebug.com/lib/palatinelib>



Sample pictures of a 3D printed dragon, color samples, and a pencil cup

● What do I need?

First, you'll need to make or find your design. 3D Design Resources:

- TinkerCAD.com
 - A free online 3D modeling program that can be run in a web browser.
- Blender.org
 - A free open-source 3D computer graphics software
- Thingiverse.com
 - A website full of user created digital design files

These are just a few of the resources available to use for creating and finding 3D designs, but they are some of the most common ones that staff can offer support with.

● Additional Info

- Think about the shapes being used and what will require supports to successfully print so the number of supports needed can be reduced.
- Identify the defining parts of your design and outline those first.
- By understanding the full form and using references for angles and curves as you go you can save time and headaches later.
- It's important to have sturdy walls and have an idea of material you're working with. We are using 1.75mm PLA Filament here at the library.