

WHAT IS 3D PRINTING?

3D printing is the process of making a three-dimensional object from a digital computer file. The printer receives the information from the digital file and then builds the object layer by layer using a thermoplastic material,



Selover Public Library's 3D printers were donated by Tri-Rivers Career Center and the State Library of Ohio.

Selover Public Library

31 State Route 95
P.O. Box 25
Chesterville, OH 43317

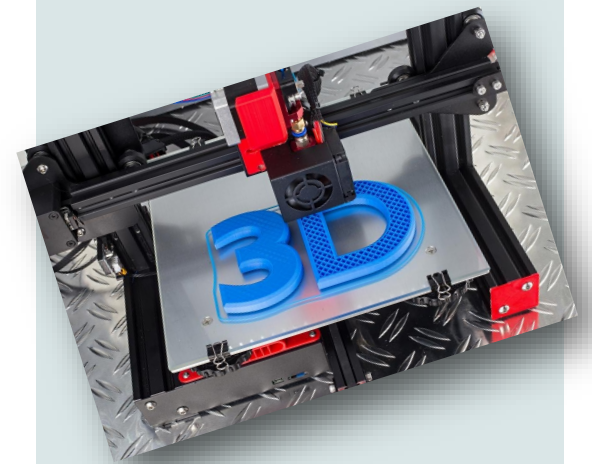
www.seloverlibrary.org

419-768-3431
stem@seloverlibrary.org

Tues-Wed 1:00-7:00
Thur-Fri 10:00-5:00
Sat 10:00-3:00
Sun-Mon - Closed



3D Printing at Selover Public Library





Printing

Interested in 3D printing? You can design your own 3D object or download a pre-existing one.

Design Your Own 3D Model:

- Beginner:
www.TinkerCAD.com
- Intermediate:
www.SketchUp.com
- Advanced:
www.Blender.org

Download a Design:

- www.Thingiverse.com

3D PRINTER POLICY

All Selover computer and network policies apply to the use of the 3D Printers. This policy is subject to change without notice.

- I. The public will not be permitted to use the printers to create material that is:
 - A. Prohibited by local, state, or federal law.
 - B. Unsafe, harmful, dangerous or poses an immediate threat to the well-being of others.
 - C. Obscene or otherwise inappropriate for the library environment.
 - D. In violation of another's intellectual property rights. Printers will not be used to reproduce material that is subject to copyright, patent or trademark protection. (It is the responsibility of the patron to verify the eligibility of the item to be printed.)
- II. Selover Library reserves the right to refuse any 3D print request.
- III. Only designated library staff will have hands-on access to the 3D printers.
- IV. The library is not responsible for the subsequent safety of any item made with the 3D printer.
- V. Requests will be honored on a first come, first served basis and as time allows. Priority will be given to Selover Library cardholders.
- VI. Mass manufacturing, or printing multiple copies of the same file, is prohibited without prior approval.
- VII. Items that are not picked up within 14 days will become the property of Selover Library.
- VIII. The library does not guarantee a successful print. Staff will not try to print an object more than twice. Unless the print fails to finish, the cost of the completed print, regardless of quality, will still be charged.

USING THE 3D PRINTER

Our printers: Monoprice IIP and Dremel 3D45

Material: PLA plastic

Accepted file format: .stl

Objects print in a single color only.

(Currently white, black, or gray.)

Price: \$0.25 per filament meter. Minimum of \$1.00.

Printing time is typically limited to under 5 hours.

Cura print preparation software is typically used with both printers.

Free 3D print designs are available from Thingiverse.com, youMagine.com, and many more sites. Or create your own design with software such as SketchUP or Tinkercad.

Patrons must design, create, or download their own models for use on the 3D printer; librarians are available for assistance only.

Submitting a design for printing:

- Preferred**—Email your .stl file to the Library at stem@seloverlibrary.org
- Alternate**—Save your .stl file to a flash drive or SD card & bring it to the library
- Staff will review your print job and notify you of any problems before printing.
- Maximum size for a print is 254 x 152 x 170 mm (10in x 6in x 6.7in).
- Keep a copy of your file(s). Submitted files may be deleted at the end of the print run.
- You may pay for your item when you pick it up. Allow at least one week for completion. You will be notified by email when it is ready.