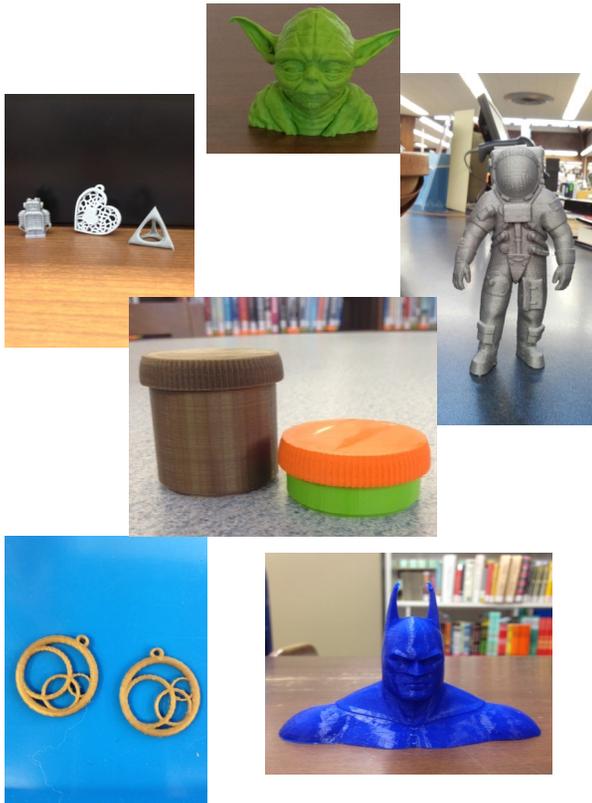


What can I make with a 3D Printer?



Mountainside Public Library

Constitution Plaza
Mountainside, NJ 07092
(908) 233-0115
www.mountainsidelibrary.org

Mountainside Library 3D Printer Policy

The Library's 3D Printer is available for making three-dimensional plastic objects using a design that is uploaded from a digital computer file. All Mountainside computer and network policies apply to the use of the 3D Printer.

I. The Library's 3D printer may be used only for lawful purposes. The public will not be permitted to use the printer 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. Mountainside Library reserves the right to refuse any 3D print request.

III. Only designated library staff will have hands-on access to the 3D printer.

IV. The library is not responsible for the subsequent safety of any item made with the 3D printer.

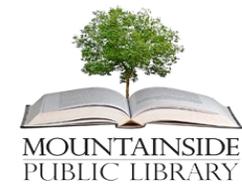
V. The posted price structure may be adjusted to cover material cost fluctuations.

VI. Requests will be honored on a first come, first served basis and as time allows. Priority will be given to Mountainside Library cardholders.

VII. Print time is limited to no more than 3 hours. Maximum size for a print is 225 x 230 x 205 mm.

VIII. Items that are not picked up within 7 days will become the property of the Mountainside Library.

VIX. The library does not guarantee a successful print.. Unless the print fails to finish, the cost of the completed print, regardless of quality, will still be charged.



3D Printing



Our 3D Printer program is made possible by a 2015 grant from the Union County Board of Chosen Freeholders.

What is 3D printing?

3D printing or additive manufacturing is a process of making three dimensional solid objects from a digital file. The creation of a 3D printed object is achieved using additive processes. In an additive process an object is created by laying down successive layers of material until the entire object is created.

What you need to know about using the 3D Printer

Our printer: **Ultimaker 2**

Material: **PLA plastic**

Accepted file format: **.stl**

Objects print in a single color only.

Selection of colors is subject to availability.

Price: **\$2.00 each + \$.05 per gram over 20 grams**

(items will be weighed after printing)

Printing time is limited to under 4 hours

Cura, print preparation software is used with the Ultimaker 2.

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; library staff are available for assistance only.**

Submitting a design for printing:

- Save your .stl file to a flash drive or SD card and bring it into the library with a completed 3D Request Form
- Or, email the file and the completed request form to the Library at info@mountainsidelibrary.org
- Staff will review your print job and notify you of any problems prior to printing.
- You may pay for your item when you pick it up. Allow one week for completion. You will be notified when it is ready.

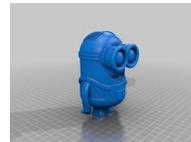
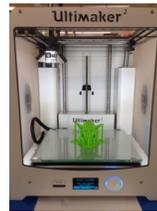
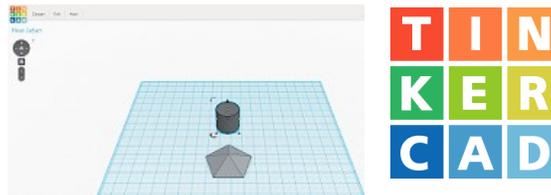
From scale models, gifts and clothing to prosthetic limbs, hearing aids and the prospect of 3D-printed homes, the possibilities seem endless.

Find out more about 3D Printing

<https://ultimaker.com/en/community>

<http://3dprinting.com/what-is-3d-printing/>

<http://mashable.com/2013/03/28/3d-printing-explained/#3IOI2RhMaiqF>



3D Printing Request Form

Date _____

Name _____

Email _____

Phone number _____

Address _____

Name of Object (Use the name that appears on the object's picture in the Thingiverse Website)

Object filename _____ .stl
(must end in .stl)

Cost of print is \$2.00 each + \$.05 per gram over 20 grams

Color (circle first choice)

- | | |
|---------------|--------|
| Red | White |
| Blue | Aqua |
| Orange | Yellow |
| Lime Green | Copper |
| Silver (Grey) | |

I attest that my request to use the 3d printer is in full compliance with the Mountainside Library's 3d printer policy. The library may photograph the object and share it on the library website.

Signature _____

Parent's signature if under age 14.
