

How does it work?



The MakerBot has renewable bioplastic spooled in the back of the device (almost like string). When the printer is told to print something, it pulls the bioplastic filament through a tube and into an extruder, which heats it up and deposits it through a small hole and onto the build plate.

Then, a 3D printer makes passes (much like an inkjet printer) over the platform, depositing layer on top of layer of material to create the finished product. This can take several hours to complete.

MFPL 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 under the supervision of a trained staff member or volunteer on a first come, first served basis.

All MPFL computer and network policies apply to the use of the 3D printer.

1. **Cost:** Cost is based on the amount (weight) of filament used to produce your object, as determined by the printer. Up to 28 grams will be \$1.00, plus 5 cents per gram for each additional gram of filament. Payment must be made at the Circulation Desk in advance, prior to beginning the print job. Your paid receipt must be presented. Refunds will only be considered in case of printer malfunction.
2. **Restrictions:** The Library reserves the right to refuse the production of any content at any time at the discretion of Library staff. Examples of objects that will not be produced include, but are not limited to:
 - Any object that is prohibited by local, state or federal law
 - Objects that are unsafe, harmful, dangerous or pose an immediate threat to the safety and well-being of others
 - Items that can be viewed as threatening or racially, ethnically or otherwise provocative or inappropriate for the Library environment
 - Objects in violation of another's intellectual property rights
 - Objects that are too large for the 3D printer's build plate (9.9 X 7.8 X 5.5 inches)

Print queue priority will be given to MFPL cardholders.

A maximum of 3 hours of print time will be allotted per person/entity per day.

The Millburn Free Public Library reserves the right to refuse or cancel any 3D print request.

By using the 3D printer, the patron assumes all responsibility for, and shall hold the Library harmless in, all matters related to patented, trademarked, or copyrighted materials.



3D printer now available for public use!



What's 3D printing?

3D printing 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.

www.millburnlibrary.org

You can find different objects to print at



www.thingiverse.com

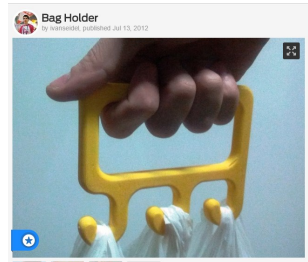
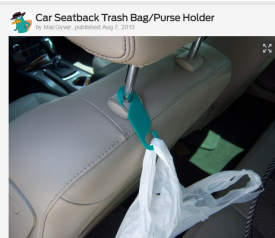
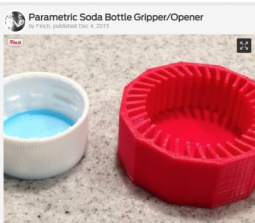
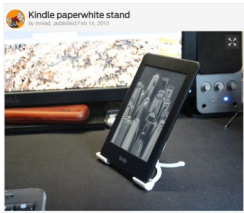
Or design your own objects at



www.tinkercad.com

What can I make with a 3D printer?

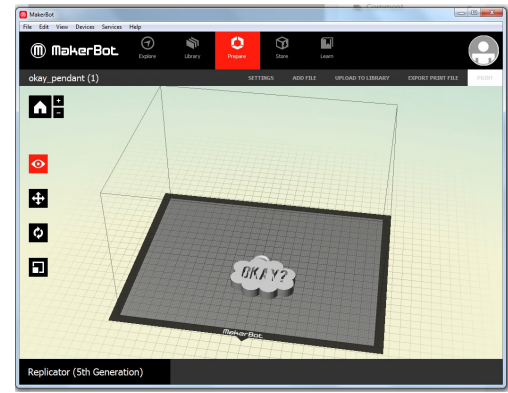
Practical items for use around the house and on the go...



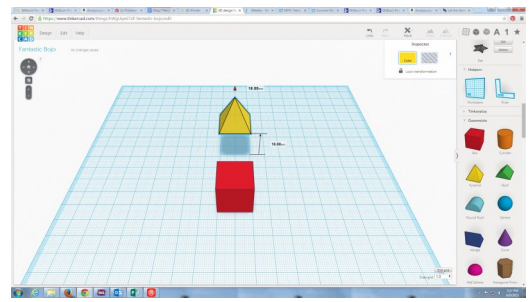
Jewelry...



You can resize your object and see how long it will take to print using MakerBot Desktop.



You can design your own object with 3D shapes using TinkerCad or other 3D design programs!



And lots of other fun stuff!



Use your creativity and let your imagination run wild!

Ask a Reference Librarian for more details.

973-376-1006 x113