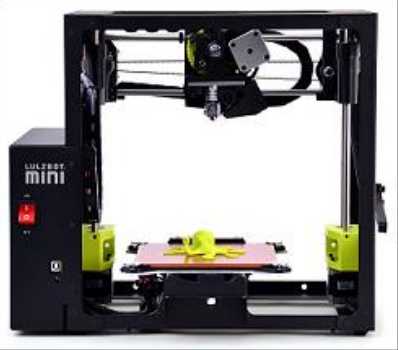


3D Printing Fact Sheet



It's true.



Your Library has a 3D Printer!

Come in and see what you can create! Get all the details at the iHelp desk.

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Yes, all the rumours are true. Pickering Public Library has a 3D printer available for public use. **Here are the facts:**

- Pickering Public Library uses the LulzBot Mini 3D printer.
- It uses both ABS grade plastic and an environmentally friendly filament, which is a bioplastic that is made from corn.
- The spool of filament is fed through a tube into a heating chamber. It is then heated at a very high temperature and extruded out of a thin nozzle head forming and building the 3D object from the bottom upwards
- The 3D printer can be found at the Central Library on the iHelp Desk
- A variety of items can be created such as models of cells for school assignments to jewelry such as rings and bracelets, all from a printer the size of a microwave oven
- Pickering Public Library has access to 3D modelling software such as Blender and Google SketchUp. This is perfect for those wanting to create custom 3D models
- Supported file types for 3D objects include .OBJ and .STL. Most 3D modelling and CAD programs directly support exporting both of these file types
- 3D models can also be downloaded from Thingiverse (<http://www.thingiverse.com/>), one of the world's leading repositories of 3D objects for printing
- The 3D printer can be used during open library hours seven days a week though we do ask that your finish model will not take in excess of two hours to print.
- The cost is \$0.50 cents for up to 20 minutes of use. A one hour print job would cost only \$1.50

Alternate formats available upon request. Please talk to Library staff.