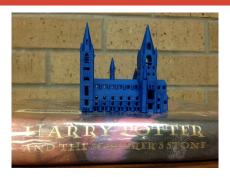
3D Printing Programs



Before You Buy a 3D Printer

- · Know the purpose and goals for the 3D printing program
- Determine who will use the 3D printer (Patrons, Staff or Both)
- Assign Tasks: Training Patrons, Maintaining Printer, Ordering Supplies, Schedule Print Job
- Train and Support your 3D Printing Program Staff/Volunteers
- · Maintain your 3D Printer
- · Know your budget for ongoing costs

Create Your 3D Printing Program Policies

- · Goals for 3D Printing Program
- What can and cannot be printed (Size, time and copyright limitations)?
- Patron vs Staff roles in Printing-- What happens when a patron must leave a during a print
- What is the Cost to Patrons?
- Copyright Protections

Sample Policy: http://tinyurl.com/hyn8g9h

Selecting 3D Printer

Pay attention to the following characteristics when choosing:

Printer:

- · Already built or ease of assembly, ease of learning, ease of use, and company support
- Quality of printing
- Sturdiness of printer
- Manual vs automated calibration
- Heated platform/print bed
- Build volume/size of printed objects
- Single or dual print heads
- Cost
- Replacement parts, tools

Filament

- Read about the different characteristics of filaments/materials. What type of filament do you want to print?
- Where can you buy filament? Many different companies? Only the printer's company?
- What is the cost of filament?
- Consider ongoing costs of filament.



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3D Printing Programs cont...



Check for Ratings

http://www.tomsguide.com/us/best-3d-printers,review-2236.html

https://www.3dhubs.com/best-3d-printer-guide

http://www.pcmag.com/article2/0,2817,2470038,00.asp

https://all3dp.com/best-3d-printer/

http://www.3dprintinggeeks.com/

YouTube Videos

- Videos about unboxing printers
 - Lulzbot Mini (Video 17min) https://youtu.be/-RFGK0_ZJ2w
 - Lulzbot Taz 6 (Video 10min) https://youtu.be/m wMoMZD6oQ
 - Tinkerine (10 Videos) https://youtu.be/d4r9EADnv_w?list=PLM67_i2HiikLdwR20KJy-1iOlj_E0PG3C
- Videos reviewing and comparing printers
 - Lulzbot Mini
 - Review (video 13 minutes) http://tinyurl.com/z8vuxfl
 - Review (Website) http://tinyurl.com/gqg5lu9
 - Lulzbot Taz 6
 - Review (22 minutes) http://tinyurl.com/jhlle3s
 - Review (12.37 minutes) http://tinyurl.com/gu7hxlx
 - Review (website) http://tinyurl.com/hvzg6kf
 - Tinkerine Ditto Pro
 - Review (website) (http://tinyurl.com/hhmkfck)
 - Review (website) (http://tinyurl.com/grrs2e9)
- · Videos showing printing with the computer.
- Keep an eye out for videos about printers not mentioned in the online rating sites.

Health

The Health Affects of 3D Printing https://americanlibrariesmagazine.org/2016/10/11/the-health-effects-of-3d-printing/

Tips

- 1. 3D printing is a lot of fun and popular, but this program/service cannot work without at least one reliable staff member(s) or volunteer(s) eager and with time to play, use, maintain, repair, and teach others to use the 3D printer.
- 2. When buying a 3D printer focus on hardware reliability, ease of use, good online support, and ongoing cost of filament. Buy the extended warranty for at least one year.
- 3. 3D printers are new technology. The hardware is not as reliable as computers and printers. Expect: Long print times, bad prints requiring starting over. Tool heads clogs requiring replacement with second tool head while the first tool head is unclogged.

Contact

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Glen Elder Library

https://www.facebook.com/Glen-Elder-City-Library-340600011810/

Otis Community Library

http://otiscommunitylibrary.doodlekit.com/

Plainville Memorial Library

http://plainvillepl.blogspot.com/

Stockton Public Library

https://www.facebook.com/Stockton-Public-Library-237100596341504/