



Newton Free Library

The door to your imagination

Library Director
Philip E. McNulty



Mayor
Setti D. Warren

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Contact: Ellen Meyers
Direct phone: 617-796-1410
Email: emeyers@minlib.net

STEAM (Science, Technology, Engineering, Art, Mathematics) @ the Newton Free Library

The Library has purchased a **3D Printer!** We will help Newton get a handle on this game-changing technology and use the printer as the core element in the Science, Technology, Engineering, Arts and Math programming initiative that we are beginning in March. Each month we will have innovative theme-based programs for all ages that focus on experimentation and hands-on learning. Newton resident and Maker Kevin Osborn will be our Maker-in-Residence this year. A long-time engineer, Kevin has a passion for making things and teaching people to create things they may never have dreamed of. He has had his hands in everything from video games, to printer guts and Enterprise software. March STEAM programs will include:

What Is 3D Printing Anyway? Wednesday, March 5, 7:00 pm

Kevin Osborn will give an interactive demonstration and lecture on 3D printing. The program will take place at the Newton Free Library on Wednesday, March 5 at 7:00 pm in Druker Auditorium. Kevin will give an overview of available materials, technologies and consumer models. Participants will also learn about the library's new MakerBot 3D printer and have the opportunity to see some 3D printers in action.

3D Design Workshop with Kevin (for kids) Wednesday, March 19, 2:00-4:00 pm

Join Kevin Osborn on Tuesday, March 19 at 2:00 pm in Druker Auditorium to learn how 3D printers work by making things yourself! This will be a fun interactive activity for kids in grades K-5. (Adults are requested to remain with kids under the age of 8.) Learn about the library's new Makerbot 3D printer and walk away with your own three-dimensional creation. Space is limited, register (required) at www.newtonfreelibrary.net, call 617-796-1370 or email jmalMBERG@minlib.net.

Making Things in 3D: Design to Print (for teens) Thursday, March 20, 4:00-6:00 pm

Join Kevin Osborn on Thursday, March 20 at 4:00 pm in the second floor Computer Center to learn about 3D printing and design. We'll be designing 3D objects using free computer-aided design software and then printing them on the new 3D printer. Open to grades 6-12. Space is limited, register (required) at www.newtonfreelibrary.net, call 617-796-1389 or email teens@newtonfreelibrary.net.

3D Printing: How It's Used at Olin College Tuesday, March 25, 7:00 pm

Join Christopher Lee, Associate Professor of Mechanical Engineering at Olin College, and some of his students, at the Newton Free Library on Tuesday, March 25 at 7:00 pm in Druker Auditorium to learn about how Olin uses 3D printing. Rapid prototyping or the quick creation of physical models is routinely used in engineering, especially in product design and development. At Olin College, they have begun to integrate 3D printing into their curriculum and research.

The festivities will continue on Saturday, April 26 with a mini-Creator Faire. Watch the newsletter for more information. Questions? Email Liz the Teen Librarian at teens@newtonfreelibrary.net or call 617-796-1360. All programs are free and open to the public, parking is free. The Newton Free Library is an accessible facility.

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