

Resources for Making and Makerspaces

Web

<http://makered.org/> Maker Ed—resources and community

<http://www.instructables.com/> Instructables—join to be able to download PDFs in one step—well worth it—have your kids contribute

<http://www.gemsclub.org/> GEMS—all about girls and STEM

<https://makezine.com/> Make Magazine—where it all began. Can be very high level, but has wonderful resources. And use their Maker Camp resources for tons of activities <http://makercamp.com/> Here is where you will find out about Maker Faires too. They have a free Makerspace playbook also and this: <http://www.makerspacelab.com/>

<http://clalliance.org/> Connected Learning Alliance—digital learning and sharing

<https://makingandlearning.squarespace.com/> Libraries and museums and makerspaces

<http://youmedia.org/> YouMedia—reimagine learning

<http://remakelearning.org/> Remake Learning in Pittsburgh—download the playbook

<https://www.edsurge.com/research/guides/how-to-build-your-makerspace> How to Build Your MakerSpace

Communities:

On Facebook and Pinterest:

GEMS (Search Girls Excelling in Math and Science)

Tinkerlab

Creation Crate

GeekMom/GeekDad

MakerSpaces and the Participatory Library

Once you sign up for these, you will get more in your feed.

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MakerSpaces in Virginia:

Google lists 8 in VA: TechShop in Arlington, NOVA Labs in Reston, Hacksburg in Blacksburg, Makersmiths in Leesburg, Staunton Makerspace in the Museum, HackRVA in Richmond, Tinkersmiths in Charlottesville, and 757 Makerspace in Norfolk. Ask around.

Free Hands On sites to explore:

But remember, it is about hands-on development of skills, not playing with apps.

<http://ldd.lego.com/en-us/> Lego Digital Designer—good for spatial skills and understanding those pesky grids

<https://www.tinkercad.com/> Great tutorials for spatial skills and intro to 3D

<http://www.sketchup.com/> Formerly Google Sketchup, this helps 3D also, and develops the budding architect

<http://www.autodesk.com/education/free-software/all> Autodesk's fabulous software can be free to schools and students. These are not for beginners. Start with some of the others first, like this one:

<http://www.123dapp.com/design> specifically for 3D printing

Supplies: Be sure to ask for a school discount

<http://www.makershed.com/> MakerShed

<https://www.sparkfun.com/> SparkFun—cooler stuff.

<https://www.adafruit.com/> Adafruit—very cool. Used to specialize in wearable electronics but have expanded

<http://www.evilmadscientist.com/> Evil Mad Scientist. Love them, and their huge LEDs

<http://www.electronickitsbychaneyelectronics.com/> Chaney Electronics -- Good customer service—sometimes you get to talk to the actual engineers. Have some unique stuff

<https://www.radioshack.com/> If you are lucky enough to still have one, make friends with the local manager.

Other cool links: I had to stop myself, but most of these are on the GEMS pages

<http://highlowtech.org/> <http://www.howtoons.com/> www.pbslearningmedia.org/collection/nvms/

<http://beta.gamek.it/challenge-pack/the-basics/> <http://openmaterials.org/>

<http://www.projecthdesign.org/>

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