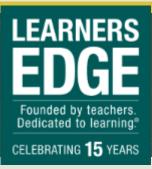
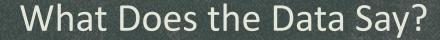
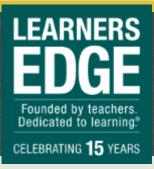
## Tools to Help Your Maker Movement





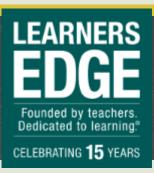
www.LearnersEdgeInc.com





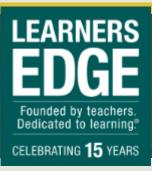
- Do you need data to enhance your powers of persuasion? Check out these articles that share findings from recent research about the benefits of the maker movement:
  - https://curiositycommons.wordpress.com/makerspaces-the-benefits/
- An article that outlines how the practices of making align with research on beneficial learning environments (abstract to article only)
  - http://docs.lib.purdue.edu/jpeer/vol5/iss1/4/





- http://lighthousecreativitylab.org/
- http://www.edtechmagazine.com/k12/article/2016/10/makerspaces-encouragestudents-innovate-and-build-critical-thinking-skills
- http://www.edtechmagazine.com/k12/article/2016/06/k-12-maker-initiativecaptures-spotlight-national-maker-faire
- http://www.slj.com/2013/10/technology/community-is-key-to-successful-library-maker-spaces-the-digital-shift-2013/#\_





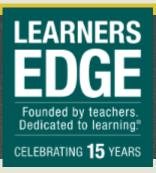
- Make an inchworm! A great starter project idea <u>downloadable</u> from makerspaces.com
- Make a greeting card that lights up! You may <u>want to follow</u> this creative maker for more great ideas
- Make a paper plane launcher! A fun way to fly!
- No need to reinvent the wheel here are some activities already curated for you
  - The Curiosity Machine <a href="https://www.curiositymachine.org/challenges/">https://www.curiositymachine.org/challenges/</a>
  - Instructables <a href="http://www.instructables.com/id/Project-Based-Engineering-for-Kids/">http://www.instructables.com/id/Project-Based-Engineering-for-Kids/</a>
  - Engineering As Elementary <a href="http://www.eie.org/">http://www.eie.org/</a>





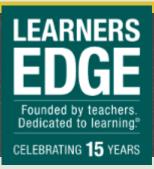
- One way to get started is to become a maker yourself. You can search this directory for a makerspace near you: <a href="http://spaces.makerspace.com/makerspace-directory">http://spaces.makerspace.com/makerspace-directory</a>
- MAKE- Make Magazine's website includes project instructions, the Maker Shed maker supplies store, project plans, videos, event listings and more. Make sponsors Maker Faires around the world
- Maker Eduction Initiative Make Magazine's Education specific site. Sign up to be part of Maker Corps, an initiative to increases the capacity of youth-serving organizations nationwide to engage youth and families in making.
- MakerSpace A new online community from Make. Includes a very helpful forum.
- <u>Instructables</u> Instructables is a place that lets you explore, document, and share your DIY creations.
   Includes detailed instructions on how to complete each project. Once done with your project, share your instructions and photos with others in the Instructables community.
- <u>DIY.org</u> Browse other people's projects, share your projects, learn new maker skills, and buy supplies. It
  is easy to browse pictures and videos of hundreds of maker project ideas. Choose from the DIY excellent
  official skill patches.
- Makerspace Guidebook an ebook





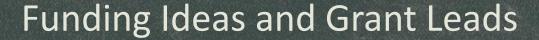
- https://www.youtube.com/watch?v=Ruo904vtQ8w
- Makerspaces.com A list of 100+ product ideas to help stock your Makerspace
- A glossary of Makerspace Terms and Ideas
- Makers To follow: A list of bloggers to follow

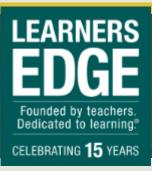
## How to "make" your makerspace



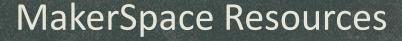
- You can pick from several makerspace models (or create your own) to meet your goals and will to support how your makerspace will be used
  - Models
    - Fab Lab Outreach project to provide access to modern means for invention such as electronics equipment, laser cutters, routers and milling machines in order to enable makers to create nearly anything.
    - Hackerspaces places where computer programmers, makers, DIY'ers and artists converge to collaborate and socialize.
    - TechShops TechShops are for-profit spaces which offer public access to industrial tools and equipment such as welding equipment, sewing machines, woodworking equipment, 3D printers, and more to build their own projects. They charge a membership fee.
    - Makerspaces creative, DIY spaces where people can gather to create, invent, and learn. The usually have 3D printers as well as electronic equipment available, some also have metalworking, woodworking, and traditional arts and crafts equipment available. They are used by schools and libraries to provide valuable skills in math and engineering to children and patrons of all ages
    - Pop Up Makerspaces A movable and temporary venue where youth and adults are encouraged to be curious, to tinker, to experiment, and to make with technology

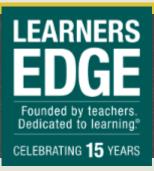
TIP: Do include plans for accessibility: <a href="http://www.washington.edu/doit/making-makerspace-guidelines-accessibility-and-universal-design">http://www.washington.edu/doit/making-makerspace-guidelines-accessibility-and-universal-design</a>





- SparkFun: <a href="https://thejournal.com/articles/2017/02/13/grant-spotlight-free-gear-for-your-makerspace-from-sparkfun.aspx">https://thejournal.com/articles/2017/02/13/grant-spotlight-free-gear-for-your-makerspace-from-sparkfun.aspx</a>
- Unsung Heroes: Each year, 100 educators are selected to receive \$2,000 to help fund their innovative class projects. Three of those are chosen to receive the top awards of an additional \$5,000, \$10,000 and \$25,000.
- Lowes Toolbox for Education: This is another opportunity that many teachers have used. Raise \$5,000 in minutes from Lowe's Charitable and Educational Foundation, which will help your parent-teacher group achieve even more for your school.
- You might use <u>DonorsChoose.org</u> for project materials. DonorsChoose lets teachers share their classroom needs with a thriving community eager to help.





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