**Makerspace & Makergroups**

**Resource List**

### School Makerspaces (mostly Northeast Ohio)

#### Case Western Reserve Think[box]
The Richey Mixon Building  
11201 Cedar Ave., Cleveland, OH 44106  
(216) 368-3248  
[http://thinkbox.case.edu/home](http://thinkbox.case.edu/home)

#### Chagrin Falls Exempted Village Schools Innovation Center
400 East Washington Street, Chagrin Falls, Ohio 44022  
440-247-5500 x 4438  
[http://www.chagrinschools.org/InnovationCenter.aspx](http://www.chagrinschools.org/InnovationCenter.aspx)

#### Cleveland Metropolitan School District
MC2 STEM High School, 9th grade building  
601 Erieside Ave., Cleveland, OH 44114  
216-838-8550  
[https://clemobilefablab.com/](https://clemobilefablab.com/)

#### Mentor Public Schools
Mentor High School HUB Makerspace  
6477 Center St., Mentor, OH 44060  
440-974-5300  
[https://sites.google.com/a/mentorschools.org/mhsmedia/home/HUBmakerspace](https://sites.google.com/a/mentorschools.org/mhsmedia/home/HUBmakerspace)

#### Ohio University
Instructional Innovation  
Ohio University  
Athens, Ohio 45701  
[https://www.ohio.edu/instructional-innovation/initiatives/makerspaces.html](https://www.ohio.edu/instructional-innovation/initiatives/makerspaces.html)

#### Strongsville City Schools
Administrative Office  
18199 Cook Avenue, Strongsville, OH 44136  
440-572-6067  
[https://www.strongnet.org/Page/9943](https://www.strongnet.org/Page/9943)
Washington Elementary
Marlington Local Schools
5786 Beechwood Avenue
Alliance, Ohio
Contact: Aubrey Horning
330-823-7586
http://washingtonelementarystem.weebly.com

Western Reserve Academy
The Wang Innovation Center
115 College St., Hudson, OH 44236
330-650-4400
https://www.wra.net/academics/wangcenter

Willoughby-Eastlake School of Innovation
32500 Chardon Rd., Willoughby Hills, OH 44094
440-942-1525
http://www.weschools.org/SchoolOfInnovation_home.aspx

ITC Makerspaces

NEOnet
700 Graham Road, Cuyahoga Fall, OH 44221
330-926-3900
https://www.neonet.org/

Makergroups & Community Makerspaces

Akron Makerspace (formerly Syn/Hak)
48 S. Summit St., Akron, OH 44308
330-597-3111
http://akronmakerspace.org/

Cincinnati's Makerspace: The Manufactory
12055 Mosteller Road, Cincinnati, OH 45241
513-771-3605
http://themanufactory.us/

Cleveland Public Library
TechCentral Makerspace
Louis Stokes Wing, Lower Level
525 Superior Ave.
Cleveland, OH 44114
216-623-2980
https://cpl.org/subjectscollections/techcentral/makerspace/

Columbus Idea Foundry
421 W. State Street, Columbus, OH 43215
614-653-8068
https://ideafoundry.com/

Kent State University at Tuscarawas
330 University Dr., NE
New Philadelphia, OH 44663
330-339-3391
infousc@kent.edu
http://libguides.tusc.kent.edu/makerspace

Wayne College Makerspace
1901 Smucker Road, Orrville, OH 44667
330-683-2010
http://blogs.uakron.edu/wayne3/

**Websites:**

INFOhio MaKit
http://libguides.infohio.org/makerspaces

Ohio Hackerspaces
https://wiki.hackerspaces.org/Ohio

Renovated Learning, Diane Rending
http://renovatedlearning.com

World of Making, Laura Fleming
https://worlds-of-learning.com

**Resource Books**

Invent to Learn: Making, Tinkering, and Engineering in the Classroom, Gary Stager
Lifelong Kindergarten: Cultivating Creativity through Projects, Passion, Peers, and Play, Ken Robinson and Mitchel Resnick

The Kickstart Guide to Making Great Makerspaces, Laura Fleming

Worlds of Making: Best Practices for Establishing Makerspaces for Your School, Laura Fleming

Resource list compiled by:
Fiona Casida, Tamra Dugan & Laurie Green (@themrsgeeky, www.mrsgeeky.com)
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<th>Nhap</th>
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<th>Walmart</th>
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Total: $29,838.40
Makerspace Resource Books

Maker Lab: 28 Super Cool Projects: Build * Invent * Create * Discover
Jack Challoner
978-1465451354

STEAM Kids: 50+ Science / Technology / Engineering / Art / Math Hands-On Projects for Kids
Anne Carey
978-1537372044

The Big Book of Makerspace Projects: Inspiring Makers to Experiment, Create, and Learn
Colleen Graves
978-1259644252

Worlds of Making: Best Practices for Establishing a Makerspace for Your School
Laura Fleming
978-1483382821
The Makerspace Librarian's Sourcebook
Ellyssa Kroski
978-0838915042

Challenge-Based Learning in the School Library Makerspace
Colleen Graves
978-1440851506

The Kickstart Guide to Making GREAT Makerspaces
Laura Fleming
978-1506392523

The Art of Tinkering
Karen Wilkinson
978-1616286095
STEM/Makerspace Picture Books

Rosie Revere Engineer by Andrea Beaty is more than just a book about an engineer who happens to be a young girl; it is about not being afraid to be different, especially when being different is amazing. It’s not always easy to march to the beat of your own drummer, and Rosie has a hard time at first but after a pep talk from a special mentor everything changes.

Awesome Dawson by Chris Gall was an instant hit with students. Dawson is an amazing little boy who invents new things from other people’s trash. Dawson is just like other children who try to find ways to get out of their chores so he can get back to the important work of play. He’s one step ahead of most kids though and invents a robot to take care of this chores, but things don’t go as awesome as he hoped. That’s when he must re-invent himself into a superhero to save the day.

Fraidyzoo by Thyra Heder is a wonderfully creative book about a family who creates zoo themed costumes from A-Z in an attempt at guessing which animal at the zoo their youngest child is afraid of. The homemade costumes captures the spirit of the maker mentality and after reading this students are off to create her own. Perfect right? The book is also a really great lesson about fears and how your family can be your support if you allow them to.

Have Fun Molly Lou Lemon by Patty Lovell is all about how Molly Lou Mellon uses her imagination when other children use toys that do all the playing for them. When a new neighbor Gertie moves in Molly Lou Mellon stays true to herself even with Gertie’s super cool toys and even shows her new friend how to use her imagination.
Monkey with A Tool Belt and The Noisy Problem by Chris Monroe is a hilarious book about a monkey who is not only handy with his tools, he is also a fantastic problem solver. The perfect combination to demonstrate to young readers what STEM is all about. He creates, builds, and fixes the noisy problem. Do not try to read this in a hurry because each page deserves a long long look at every single detail.

11 Experiments That Failed by Jenny Offill is hilarious. The book follows a young scientist as she conducts 11 terribly misguided experiments around her home, all with terrible and hilarious consequences. Besides the dry humor, the best part of this book is that each experiment follows the scientific method!

The Most Magnificent Thing by Ashley Spires is an important addition to this list because while the end product is important, this story focuses on the process of creating, and failing. Making amazing things is awesome but it's not always an easy road and this book tackles the idea that failing, and trying again is part of the creation process.

Mechanimals by Chris Tougas isn't just about a farmer who builds robot animals when his are swept away in a tornado, it's about overcoming adversity. What is a farmer supposed to do when his animals are gone? Certainly not admit defeat, use what you have and create something new! What an incredible lesson in resourcefulness, problem solving, and determination. Awesome book!
If I Built A Car by Chris Van Dusen is so much fun. A little boy takes you through the incredible car that he built and every awesome extra special feature it has. Like Andrea Beaty, Chris Van Dusen manages to create a fantastic rhyming book that is zips along so effortlessly that you wonder how they do it. The story is inviting and the illustrations invite readers to dive even further into the author’s imagination.

Additional Titles:
- Iggy Peck, Architect
- Ada Twist, Scientist
- What Do You Do With an Idea?
- What Do You Do With a Problem?
- The Three Little Pigs: an architectural tale
- Roberto: the insect architect
- Beautiful Oops!
- The Boy Who Loved Math
- On a Beam of Light
- Ish
- Look at That Building!
- Young Frank, Architect
- Papa’s Mechanical Fish
- Galimoto

If I Built A House by Chris Van Dusen is even BETTER than If I Built A Car. This book inspires children to create house plans for themselves and imagine their own dream house. The details in the illustrations are captivating, and the little inventions included in the house make you wonder what you would invent for your house. Great book to spark the maker mentality in all readers.
Early Chapter Makerspace/STEM Books

- Calpurnia Tate, Girl Vet (Jacqueline Kelly)
- Zoey and Sassafras (Asia Citro)
- 7x9= Trouble! (Claudia Mills)
- Trouble Next Door (Karen English)
- The Toothpaste Millionaire (Jean Merrill)
- Phineas L. MacGuire... Erupts! (Frances O’Roark Dowell)
- Sophie Simon Solves Them All (Lisa Graff)
- Frank Einstein and the Antimatter Motor (Jon Scieska)
- Franny K. Stein, Mad Scientist (Jim Benton)
- Ruby Goldberg’s Bright Idea (Anna Humphrey)

Chapter Makerspace/STEM Books

- Chasing Vermeer (Blue Balliet)
- The Phantom Tollbooth (Norton Juster)
- The Number Devil (Hans Magnus Enzensberger)
- Secret Coders (Gene Luen Yang)
- The Invention of Hugo Cabret (Brian Selznick)
- The Friendship Experiment (Erin Teagan)
- Nick and Tesla’s High-Voltage Danger Lab (Bob Pflugfelder)
- The Green Glass Sea (Ellen Klages)
- The Boy Who Harnessed the Wind (William Kamkwamba)
- Deadly (J. Chibbaro)
- The Disappearing Spoon (S. Kean)
- Eye of the Storm (K. Messer)
- Astrotwins (Mark Kelly)
- Planesrunner (Ian McDonald)
- Breakthrough (Jack Andraka)
- Dark Life (Kat Falls)
- Ender’s Game (Orson Scott Card)
- Fuzzy Mud (Louis Sachar)
- The Maze Runner (James Dashner)
- The Testing (Joelle Charbonneau)
- Annihilation (Jeff Vandermeer)
- Ashfall (Mike Mullin)
- Peeps (Scott Westerfeld)
- Quarantine (Lex Thomas)
- Robopocalypse (Daniel Wilson)
Building Challenge Cards

- Build your own house.
- Make a face.
- Make a funny robot.
- Build the fastest car.
- Build the tallest tower.
- Make a table and a chair.
- Make something that flies.
- Build an animal.
Build a bridge.

Build a maze.

Make some yummy food.

Make a space ship.

Build something with your eyes closed.

Make your name.

Make a garden.

Build a rainbow.
Drawing Challenge Cards

- Design your dream car.
- Draw an ugly monster.
- Draw a yummy dinner.
- Design an amazing roller-coaster.
- Look out of the window, draw what you see.
- Draw a furry animal.
- Draw something with wings.
- Design a useful machine.
Draw the cover of an awesome book.

Draw a crazy garden.

Design an outfit for a super hero.

Draw a giant castle.

Draw your own face.

Draw a creature with six legs.

Draw the flag of an imaginary country.

Design a spaceship.
Build two cars and race them.

Build your name in LEGO.

Build a castle.

Build something blindfolded.

Build something with just 4 LEGO.

Build something using only yellow LEGO.

Build an ice cream cone.

Build something that floats.
Build an animal.

Build something in one minute.

Build a spaceship.

Build something with one hand.

Build a pattern with different sized LEGO.

Build LEGO pattern using different colors.

Build something using only red LEGO.

Build something that starts with the letter “T”.
Build a robot.

Build the tallest tower you can before it topples.

Build a model of your house.

Build a LEGO pizza.

Build a bridge.

Build something you find in the forest.

Build a musical instrument.

Build something that flies.