
Makerspaces in ECE

Webinar Resources

Articles & Blog Posts

- [Why the Maker Movement Matters to Educators](#)
- [Supporting the Teacher Maker Movement](#)
- [Making with Young Learners: An Introduction](#)
- [All I Really Need to Know \(About Creative Thinking\) I Learned \(By Studying How Children Learn\) in Kindergarten](#)
- [Engineering for Preschool & STEM Activities](#)
- [5 Year Olds and Laser Cutters - Perfect Together?](#)
- [Margaret's Maker & Design Projects](#)

Recommended Reading

Great books to get you started building a makerspace!

- [Invent to Learn](#)
- [Make Space](#)
- [Worlds of Making: Best Practices for Establishing a Makerspace for Your School](#)
- [Making and Tinkering with STEM: Solving Design Challenges with Young Children](#)
- [Tinkerlab: A Hands-on Guide for Little Inventors](#)
- [Loose Parts: Inspiring Play in Young Children](#) (book 1 & 2)
- [The Big Book of Makerspace Projects](#)
- [STEAM Kids](#)
- [In the Spirit of the Studio: Learning from the Atelier of Reggio Emilia](#)

Resources

- [Stanford d.school design thinking](#)
- [DEEP Design Thinking](#)
- [Engineering Design Process](#)

Tools & Materials

Ideas for tools and materials to add to your makerspace (not in any particular order!)

- **STEAM**
 - [Keva](#) planks
 - [Community Playthings wood bench](#)
 - [Lakeshore STEM Kits](#)
 - [Marble runs](#)
 - [Scribble Bots](#) & [Bristle Bots](#)
 - [Build with Chrome](#)
 - [MaKey MaKey](#)
 - [Circuit Blocks](#)

- **Computer Science**
 - [Cubetto](#)
 - [Kibo](#)
 - [Dash and Dot](#)
 - [Sphero Sprk](#)
 - [Bee Bots](#)
 - [Kodable app](#)
 - [Scratch Jr app](#)

- **App Ideas**
 - The [Tinybop](#) Collection
 - [Toca Boca apps](#)
 - [Playdough Touch Shape](#)
 - [Toontastic](#)
 - [Book Creator](#)
 - [Osmo](#)
 - [Seesaw](#) (Digital Portfolio)

- **Surfaces**
 - Pegboard
 - Magnetic
 - Writable
 - Lego

- **Materials**
 - Kinetic sand
 - Conductive dough
 - Mud and clay

- **School Age**
 - [Goldieblox](#)
 - [Roominate](#)
 - [Little Bits](#)
 - [Lego WeDo](#)
 - [Bloxels](#)
 - [3D Doodler](#)

Children's Books

Books to inspire making and maker mindsets in children.

- [Not a Box](#)
- [Not a Stick](#)
- [On a Beam of Light](#)
- [The Most Magnificent Thing](#)
- [What do you do with an idea?](#)
- [What do you do with a problem?](#)
- [Star Jumper: Journal of a Cardboard Genius](#)
- [What Do You Do With an Idea?](#)
- [Going Places](#)
- [Crafty Chloe](#)
- [Rosie Revere the Engineer](#)
- [Ada Twist Scientist](#)
- [Iggy Peck Architect](#)
- [Violet the Pilot](#)
- [Papa's Mechanical Fish](#)
- [Awesome Dawson](#)
- [If I Built a Car](#)
- [If I Built a House](#)
- [Anything Is Possible](#)
- [How to Bicycle to the Moon to Plant Sunflowers: A Simple but Brilliant Plan in 24 Easy Steps](#)
- [Galimoto](#)
- [Ish](#)
- [Monkey with a Tool Belt](#)
- [Coppernickel, The Invention](#)
- [The Boy Who Harnessed the Wind](#)
- [Riley's Really Big Hit](#)
- [Dreaming Up: A Celebration of Building](#)
- [Andrew Henry's Meadow'](#)
- [The Cardboard Box Book](#)