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

- Standford 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