



[I create I learn Blog](#)

Elementary Level Design Resource: <http://pbskids.org/designsquad/>

Learning Experiences: [Constructing Modern Knowledge](#) (associated with Invent to Learn)

Book Resources:

[Invent to Learn](#)

Website: <http://cmkpress.com/invent-to-learn/>

[Learn like a pirate](#) by Paul Solarz (5th grade teacher in Arlington Heights, IL - SD25)

Design Thinking

https://docs.google.com/document/d/1x1DJBi-ATNvTvUCkGvIDy_atnbqLrOfVOXiHHrr3TZU/edit

The Maker Movement Manifesto - Mark Hatch Techshop ISBN 9780071821124

[Makerspace Dream List](#)

[Makeerspace Challenge Cards from Metc 2016](#)

[Makerspace rotation stations](#)

[Redesign Your Classroom Learning Spaces and Make Room For Makerspaces SLATE Preso](#)

EnergyStick (could scaffold with Makey Makey)

<http://www.stevespanglerscience.com/store/energy-stick.html>

<http://www.arborsci.com/cool/fun-and-engaging-activities-using-the-energy-stick>

Children's literature that works with Makerspace lessons:

Not a Box

This is Sadie

Beautiful Oops

Hands (Lois Ehlert)

The Most Magnificent Thing

More books highlighting creativity

<https://www.goodreads.com/review/list/938799?shelf=creativity> (warning - includes titles for older students/adults so don't assume it's appropriate for elementary without reading summary)

[Raspberry Pi Resource:](#)

https://www.youtube.com/watch?v=RohDs_tfWN0

Raspberry Pi can be used on other side as an Arduino.

Makerspace radio broadcasts:

<http://www.bamradionetwork.com/search?searchphrase=all&searchword=makerspace>



My youtube list of makerspace research/background (still being added to as I work on a project):
https://www.youtube.com/playlist?list=PLrHxdJwShWNnmZac4_OyugHxCrL59qSwt

Some ideas on implementation as discussed in the session:

- Using maker centers
- Set up explorations
- In Verona, set up for morning & afternoon recess, held over 4 days, students work in groups
- Let students explore--do not guide
- Stoughton K-5: emphasize the design process, putting thoughtful process first, hold mini-lessons on how things work, display choices and allow experimentation,
- Don't leap into technology
- Find ways to fight make&take (such as photographs, video, etc of projects), recommendation to start year in cardboards
- Promote sharing tools and resources
- Display choices and allow experimentation
- Help students learn to ask questions

Event Ideas:

- Night of Code for parents
- Technology Petting Zoo (or Maker Petting Zoo) for staff
- Maker Faire with a science fair
- Digital Learning Fair with student leaders

Sphero & Little Bits are good about replacing broken equipment

Looking for materials:

Check for underused curricular materials (science, manipulatives, etc).

Thriftstores/garage sales/school collection of items

Donorschoose