



# Building Idaho Makers

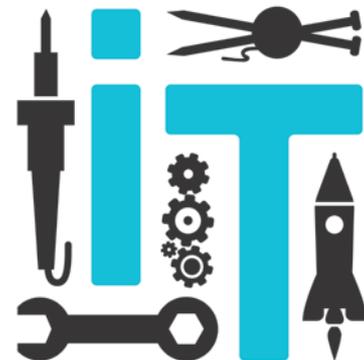
Erica Compton and Sue Walker, Idaho Commission for Libraries

Nick Madsen, Community Library Network

Nick Grove, Meridian District Library

[libraries.idaho.gov/make-it-at-the-library](http://libraries.idaho.gov/make-it-at-the-library)

# MAKE



## AT THE LIBRARY

Where Idaho Makers Meet



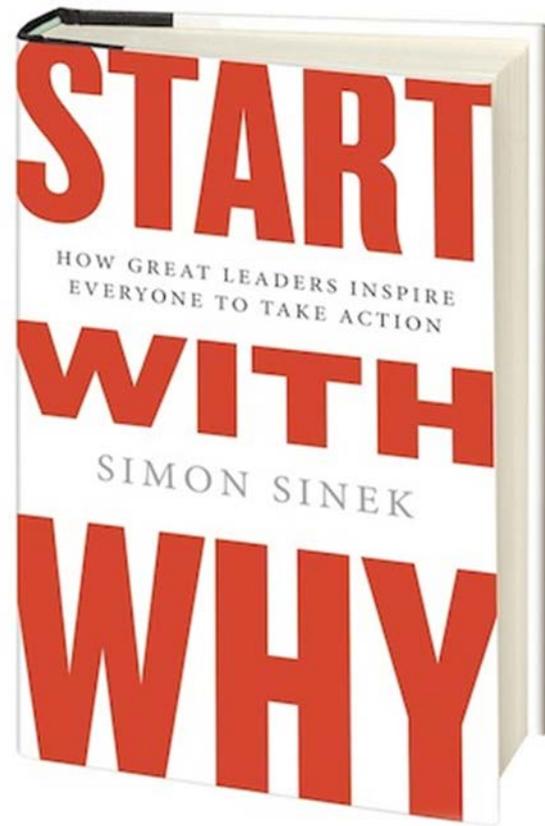
What's  
your  
experience?





WHAT'S  
OUR

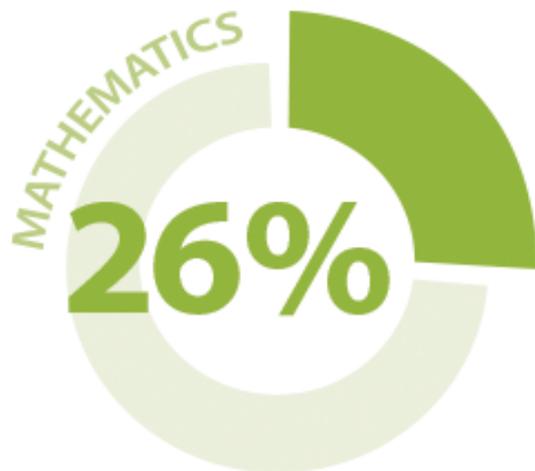
Why?





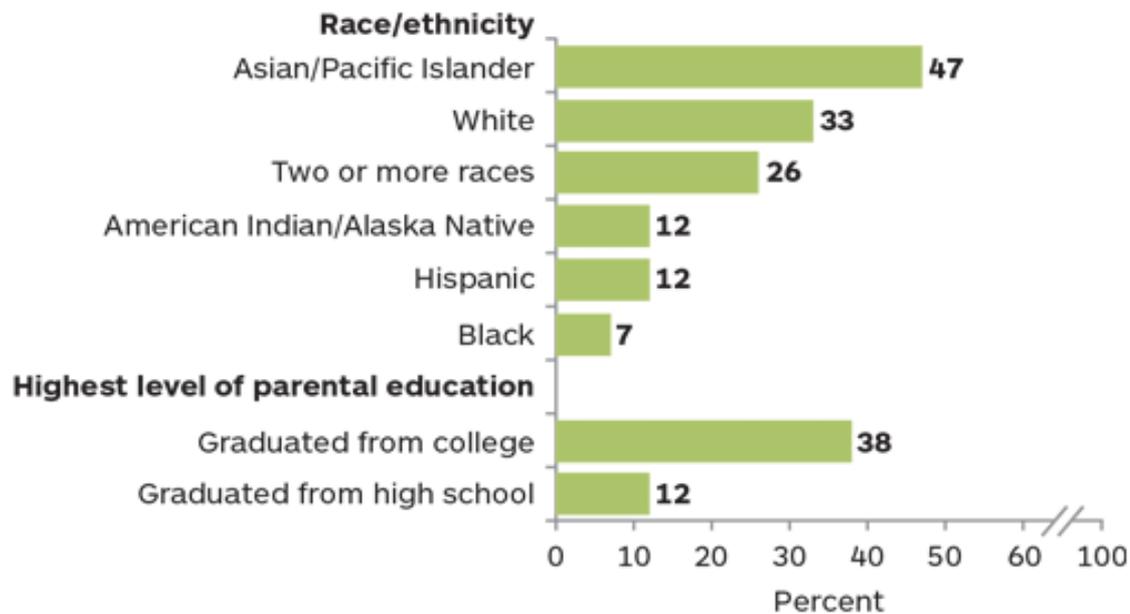
## Percentage of students at or above the *Proficient* level in 2013

### OVERALL



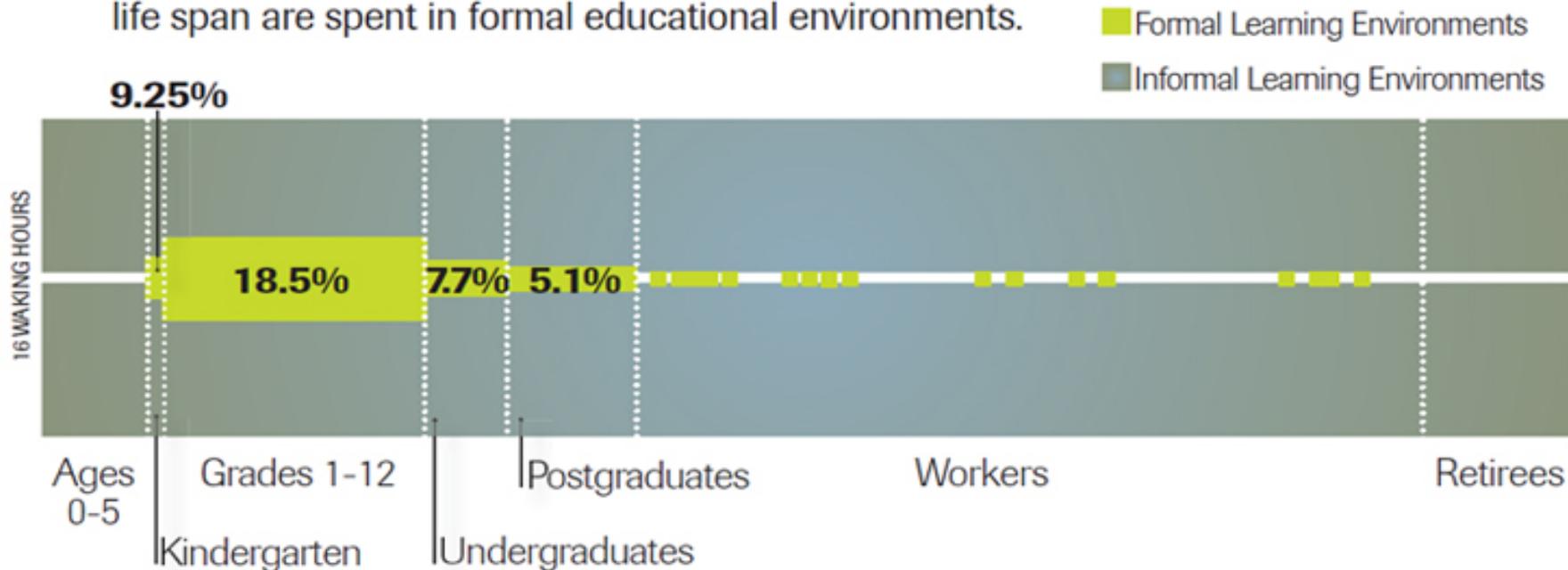
### SELECTED STUDENT GROUPS

#### Mathematics



# LIFELONG LEARNING

A relatively small percentage of waking hours across the life span are spent in formal educational environments.



SOURCE: Learning in Informal and Formal Environments Center



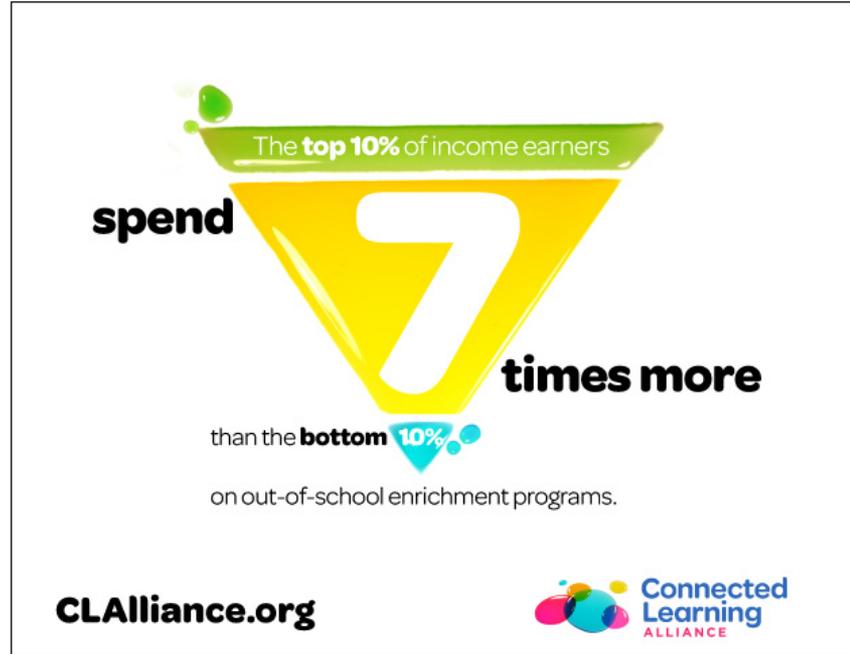
## Only 8.4 million K-12 children

participate in after school programs.  
18.5 million would participate if  
a quality program were available  
in their community. (Afterschool Alliance, 2009)

## Over 15 million school-age children

are on their own after school.

Among them, more than 1 million  
are in grades K-5. (Afterschool Alliance, 2009)



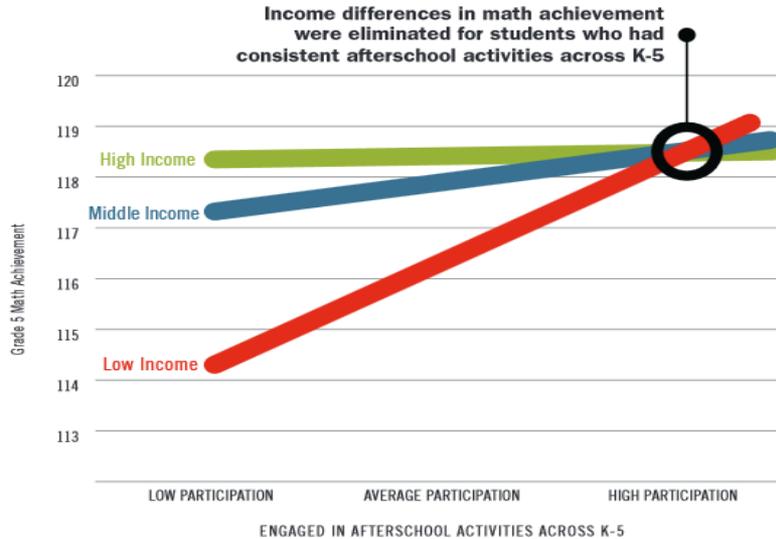


PRACTICE  
is the key!

NEW RESEARCH SHOWS

# Afterschool Is a Real Solution Linked to Closing the Gap

## Afterschool Participation Narrows the Math Achievement Gap<sup>1</sup>



New research demonstrates that more consistent time spent in afterschool activities during the elementary school years is linked to narrowing the gap in math achievement at grade 5.

### What the data indicate:

- » When afterschool participation is highly consistent, there is no gap in low-income and high-income children's math achievement at grade 5
- » The more consistent the afterschool participation, the narrower the gap in math achievement
- » The more rarely students participate in afterschool activities, the wider the achievement gap

1. Pierce, K. M., Auger, A. and Vandell, D. L. (April, 2013). *Narrowing the Achievement Gap: Consistency and Intensity of Structured Activities During Elementary School*. Unpublished paper presented at the Society for Research in Child Development Biennial Meeting, Seattle, WA.



# WE NEED TO COOK!



# Let's Get in the Kitchen

- 1. Squishy Circuits – Sue**
- 2. Soldering and LED Rings– Erica**
- 3. MaKey MaKey and other computer interfaces– Nick Grove**
- 4. Robotics of all kinds – Nick Madsen**

Please choose a station to get started. Move through as many stations as you can or want to!

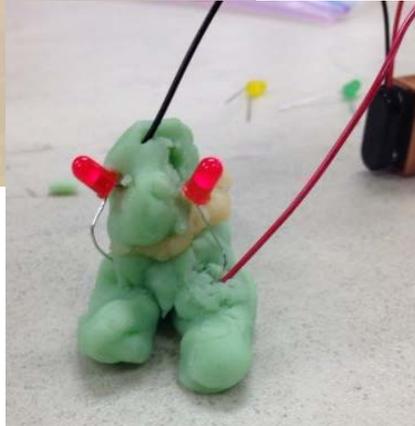
How did  
it taste?



Are You  
a Chef?



# SQUISHY CIRCUITS



**Young Makers!!**

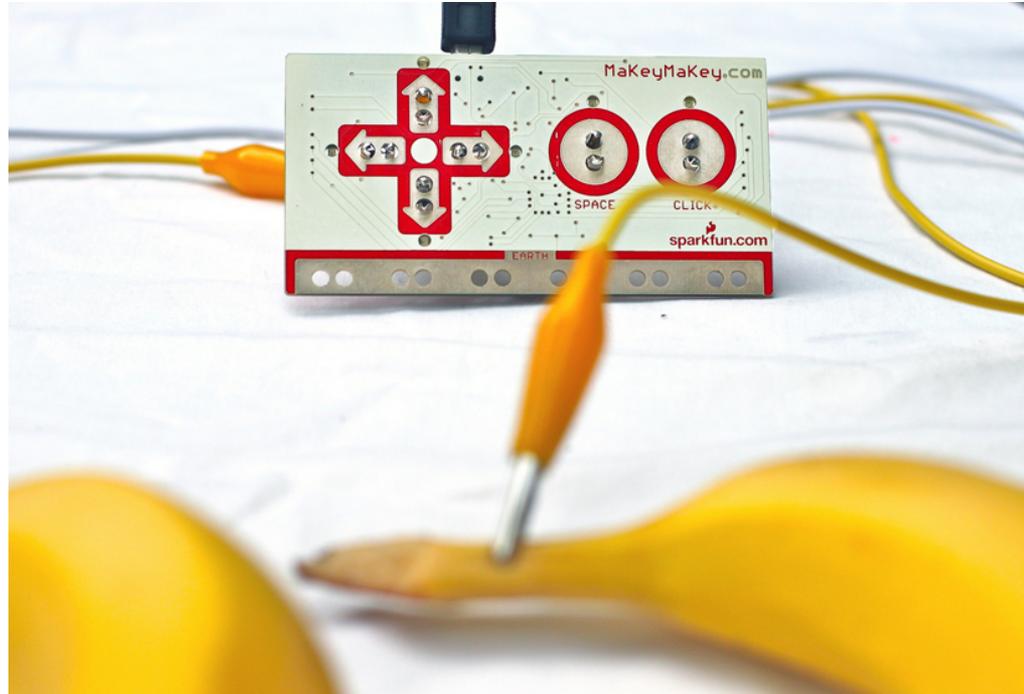
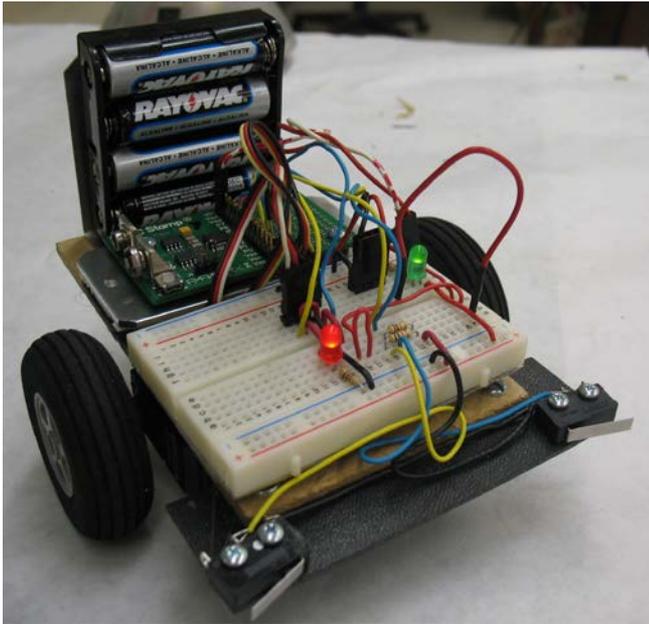
# SOLDERING & E-TEXTILES



Can you see this happening at your library?



# ROBOTICS & VARIOUS COMPUTER INTERFACES



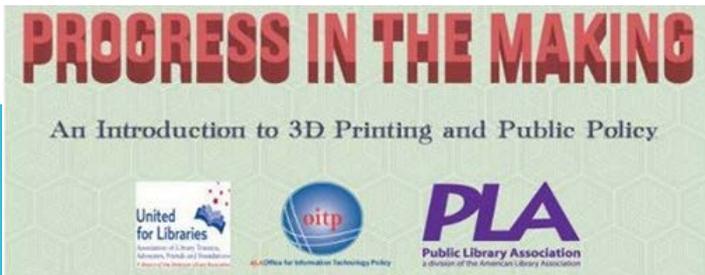
# 3D PRINTING



# STEALTH PROGRAMMING



Need  
more  
reasons?



# Makerspaces

Supporting an Entrepreneurial System

**Cristina Benton, Lori Mullins,  
Kristin Shelley, Tim Dempsey**  
City of East Lansing & East Lansing Public Library

## CURIOSITIES, COLLECTIONS, AND CURATING: CONSIDERING MAKER PORTFOLIOS

on SEP 8, 2014

This post originally appeared on Project Zero's *Agency by Design* blog.

**Mind/Shift** How we will learn.

GAMES AND LEARNING | BIG IDEAS | TEACHING STRATEGIES | CHILDREN AND MEDIA | ABOUT

INQUIRY LEARNING » UNCATEGORIZED »

### Can Project-Based Learning Close Gaps in Science Education?

Ingfei Chen | September 26, 2014 | 22 Comments

**UpNext**

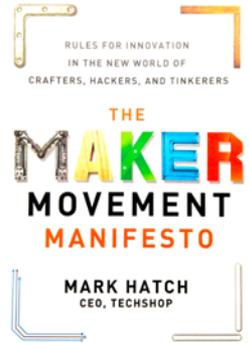
The Official Blog of  
the Institute of Museum  
and Library Services

← Interview: Delaware Division of Libraries

**A Comprehensive Strategy to Strengthen STEM Learning Must Include Libraries and Museums**

# RESOURCES

Start a Young Makers Club  
<http://youngmakers.org/>

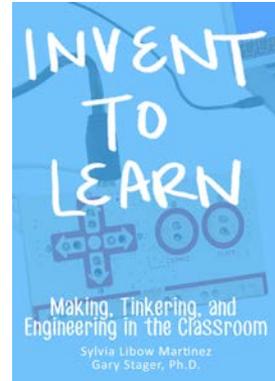


PBS Design Squad  
<http://pbskids.org/designsquad/parentseducators/index.html>

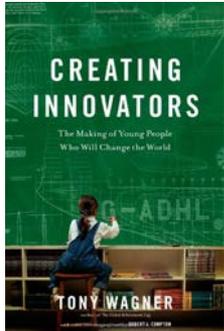


Make Magazine: Great Resource, Great Ideas!!

Steve Spangler Science Experiments and Explanations  
<http://www.stevespanglerscience.com/lab/experiments>



Instructables Build Nights  
<http://www.instructables.com/howto/build+nights/>



Pinterest Make it @ your Library  
<http://www.pinterest.com/makeitlib/>

Questions  
Ideas  
Input



# Share Your Recipes!



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Email: [erica.compton@libraries.idaho.gov](mailto:erica.compton@libraries.idaho.gov)