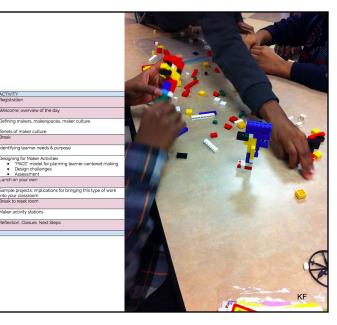


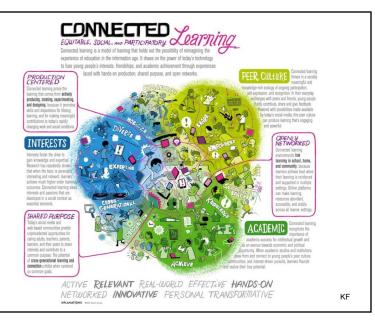
hello.





n/a

our approach

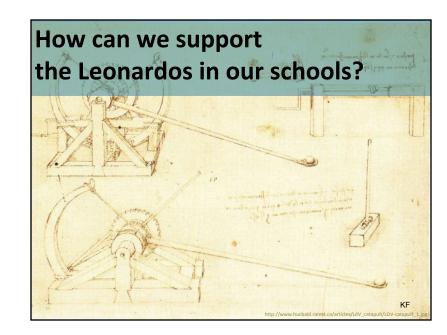


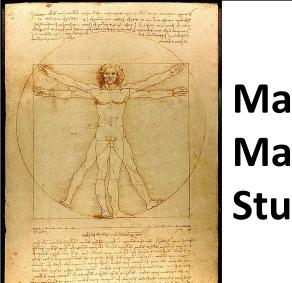












Makers Make Stuff.

Q





MAKE

Making is fundamental to what it means to be human. We must make, create, and express ourselves to feel whole. There is something unique about making physical things. These things are like little pieces of us and seem to embody portions of our souls.

LEARN

festochapter

.ly/makermani

/bit.

You must learn to make. You must always seek to learn more about your making. You may become a journeyman or master craftsman, but you will still learn, want to learn, and push yourself to learn new techniques, materials, and processes. Building a lifelong learning path ensures a rich and rewarding making life and, importantly, enables one to share. Q





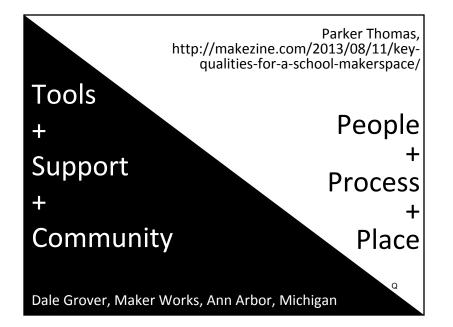


And so is this.

Q



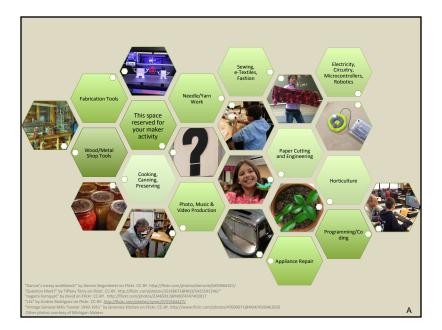












<image>

#1: Know Your Purpose Before You Buy Anything.

Entertain? Inform? Educate?

Enhance academics? Fill a void in academics?

Have one-off projects or build a community?

Welcome new makers? New services for existing makers?

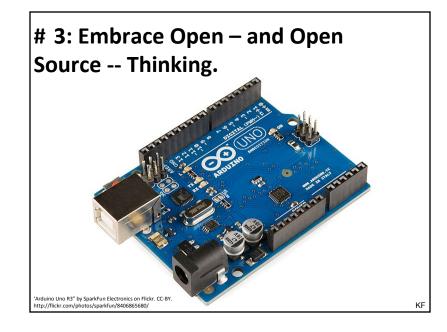


Example: Michigan Makers

- Create community around making
- Balance DIY exploration with guidance from mentors
- Create sustainability and replicability
- "Have something for every member of the family"

#2: Consider Short- And Long-term Projects (and start small).









Corollary: Partner Skills, Too: Look For Mashups.



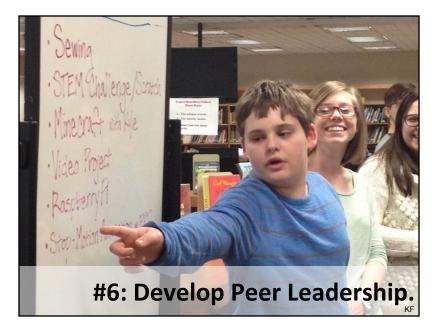


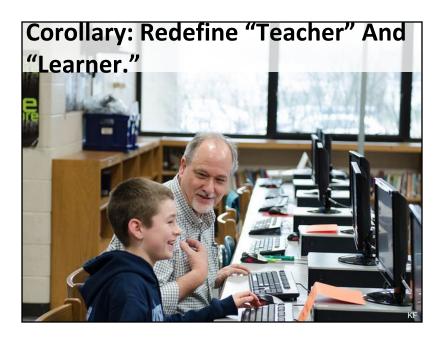
Corollary: Sometimes, making allows for self-soothing and re-centering.

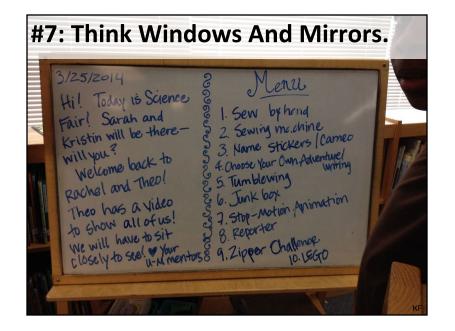
KF

#5: Not all making is serious business.











#5: Think Windows And Mirrors.

There is something missing in our definition, vision, of a human being: the need to make.

We are creatures who need to make.

Because existence is willy-nilly thrust into our hands, our fate is to make something--if nothing else, the shape cut by the arc of our lives

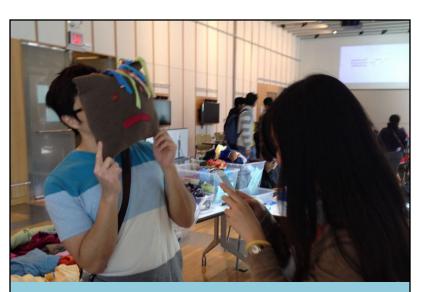
Making is the mirror in which we see ourselves ...

Frank Biedart, "Advice to the Players," https://harvardmagazine. com/1999/09/poetry.html



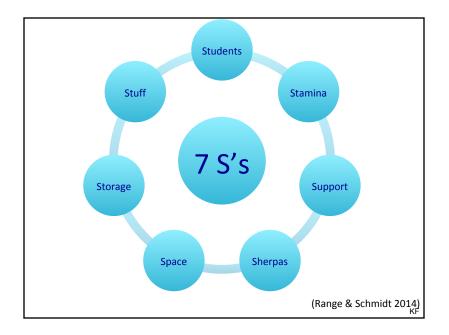
#8: Celebrate Daily Progress.





Corollary: Celebrate by just making something.





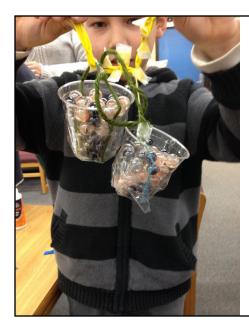


break until 10:55

slides tonight at http://makinglibraries.si.umich.edu

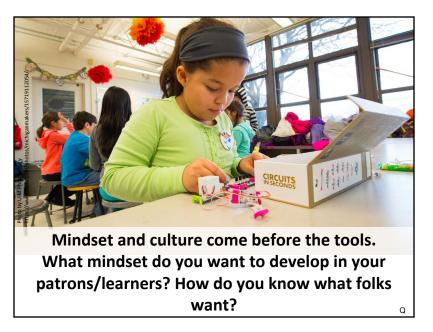
determining purpose

why does this matter?



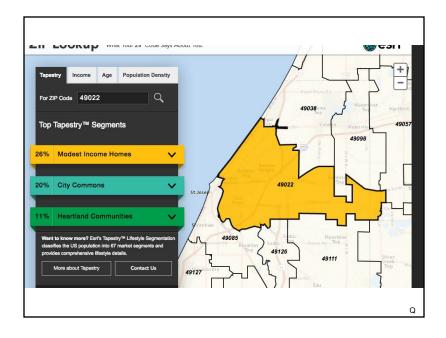
Our makerspaces hit the mark when makers are working from their "center of gravity"

(Dewey 1900)



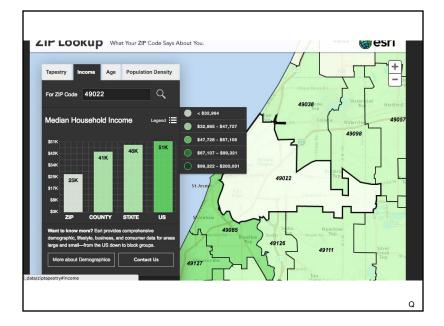
Data Points

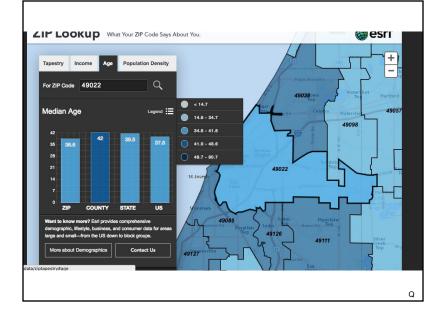
- School Curriculum
- Library Circ Patterns
- Petting Zoos (pool your resources!)
- Mel.org \rightarrow Databases > DemographicsNow
- ESRI Tapestry (http://www.esri.com/landingpages/tapestry)



Q

 \cap





Consider a charter or manifesto for your makerspace (with adults or kids). helping others (NO instructions) Problem meeting new APlacto FUM people BEME doing it you Being a maker means trying new Things not student. Interested In The world Creative teamwork

improvising

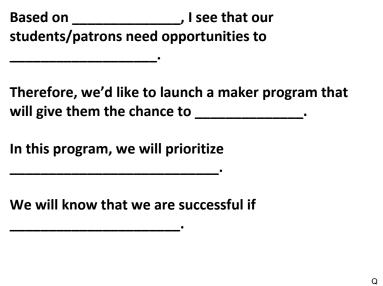
Making Use ful things

(cooperation

TOFAVORAL

Q

Working with Materials





hacKIT #madeinmich

ok. now how do we structure this?



Some context! For us, making prioritizes:

Process over product

Agency over teacher-directed work

Choice over following directions

Experimental mindset over "failure if it doesn't work the first time"



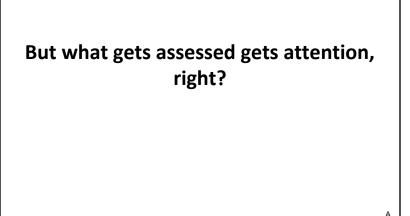


Whose work stood out to you as being great?

What criteria did you use to determine whose was best?

If we were to repeat the exercise and share those criteria, what do you think might happen to the range of ideas we saw?

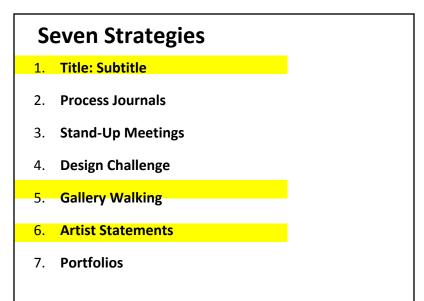




So how do we assess in our maker efforts?

Maybe we **don't** measure what they make.

Maybe we measure their thinking instead.

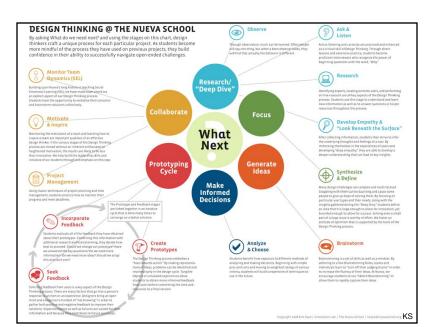


Title: Subtitle

artistic: explanatory

creative: factual

Taking Flight: Paper Airplane MonkeyMatic: A New Toy Using Centrifugal Force Origami Leia: A New Star Wars Toy



Title: Subtitle

(artistic: explanatory)

(creative: factual)

KF

Tweet a photo of your index card creation.

- Title & subtitle it.
- #madeinmich



#1 Design Challenge Seeds

- Design an invention that would fix _____
- Create a prototype that would
- Research and identify a solution that _____
- Create a stamp/statue/logo/mascot for _____ based on what you know about ______



#1 Design Challenge Examples

- People with Parkinson's have difficulty eating soup because their hand shakes. Research existing solutions and design an alternative ...



Your Challenge!

- Start by collecting data from group members about something that new students struggle with at your school or library.
- Use that data to focus on a single problem.
- Brainstorm solutions.
- Build a prototype.
- Be prepared to explain the choices you made.
- Use a sticky note to create a catchy title and informative subtitle, like this: Friend Tracker: An App to Help New Students Find Kindred Spirits

Or ... create your own challenge and be ready to explain it to others. Or ... be a group reporter!

Assessment in design challenges can come from ...

- Product pitches
- Advertising copy for product
- Infomercials for product
- Letters
- Any of the other techniques

Gallery Walking ½ present, ½ view Consider half-page "Hamburger-style" table tents Possible content: What is the object? What does the creator want the viewer to notice in particular? I am proud of ______. Keep to one sentence In-process or after project completion

Maker Gallery Walk Guidelines

- Lend support, not critique
- Ask questions
- Listen intently
- Give advice only if asked for it

lunch 1-2pm

Gallery Walk until 2:20

- Framing gallery walk/exposition etiquette with kids
- Move your creation to the back of the dining hall (leave your workspace as is)

KF

- Remember your caption! Fun title: Informative subtitle
- Take turns staffing your station





Artist's Statements at multiple points in process

Formative Assessment

- "Ticket out the door"
- Index card
- A few sentences or a paragraph
- Cloze sentences:
 - "The visuals I chose are meant to "
 - "I chose this medium because ."
 - "The visuals in my slide deck are meant to _____."
 - "I'm including this primary source image because ____."

Summative Assessment

- Multiple paragraphs
- Extended thought
- Reflects on the finished product and on the process

Artist Statements Can Convey

- Purpose/intent
- Process (if succinct)
- Inspirations
- Unpacking of your thinking about the product you made

Great resource for your teaching: http://www.artbusiness.com/artstate.html



Artist's Statement

This group of pictures was completely unexpected. I arrived in Italy last autumn as a Visiting Artist at the American Academy in Rome, with plans for a project involving fascist-era beachfront architecture in Ostia, and perhaps something centered on gardens in the funky postwar outskirts of Rome. But on our first day there I made my own pilgrimage to the Pantheon, one of my favorite places to be in Rome, and usually a primary destination.

A constant stream of visitors enters and exits the Pantheon all day. For the most part, they have their recording devices held high over head as they enter, forgoing the old-fashioned step of looking at something first, then photographing it. No, these pilgrims have their memories immediately farmed out to digital data storage, safely ensconced for retrieval at some later date. There was something charming about it, something universal and soothing, not comical exactly but focused and intense, a hint of the divine in an otherwise mechanized world: Everyone gazing vicariously into the oculus, the eye of God. I fell into a rhythm, studying the screen of my own camera and watching for the moments of rapture and deep concentration, moving invisibly from one subject to the next. I was lost in my own rapture, my mind quiet but for the occasional visit from the ghost of Walter Evans, whose pictures of subway riders during the early 1940s were never far from my thoughts.

The 45 photographs in this exhibition were made on four days in October 2012 with the Sony Nex-7 digital camera. I want to thank my wife Terry Hogan for her love and thoughtfulness, Daniel Leivick for his advice and assistance in many aspects of this exhibition, Liz Celeste, Craig Weiss, Elizabeth <u>kohnke</u>, Gail Wight, the Stanford University Department of Art and Art History, and the American Academy in Rome.

Joel Leivick, Robert and Ruth Halperin Professor in Photography, Department of Art & Art History, Stanford University.

Dedicated to my friend Richard Gordon.

Knowledge In the Room

- Exit tickets using Google Forms
- Space and schedule: Open and flexible vs Fixed time slots
- Michigan Office Supply (do I have name right?)has 3D printer repair contracts
- Tech Support for 3D Printing: Standard Operating Procedures, On Boarding processes (front end time saves you time later), evaluate and test run setup of 3D printers
- LEGO programs name your project, describe it. Have a show and tell!
- If worried about LEGOs being hard to clean up, set out a picnic blanket or sheet and put LEGOs on top. Scoop up the blanket and you catch them all!
- Show and Tell: Public speaking and communication skills
- Seesaw app (http://web.seesaw.me/): send work right to parents , real time digital portfolios/records
- Artsonia (https://www.artsonia.com/): One teacher made \$500 for her classroom!?!
- Maker Camp = MAKE Magazine + Google Plus (<u>http://makercamp.com/</u>), Live making videos, field trips (Hallmark Studio), interesting maker kits/freebies

break

KF

maker activity stations until 4:15

use your purpose statement as a lens through which to see tools that are a good fit

slides will be posted at: http: //makinglibraries.si.umich.edu/ A/k

reflection, closure, next steps, evaluation

contactmichiganmakers@umich.edu makinglibraries.si.umich.edu michiganmakers.si.umich.edu