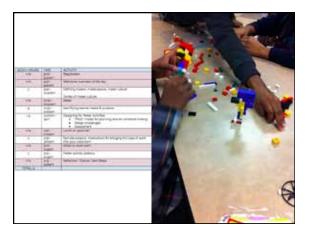


contactmichiganmakers@umich





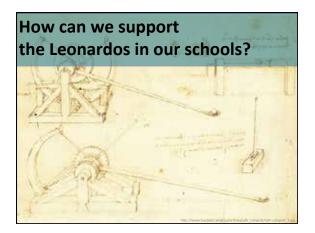


our approach

















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

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.











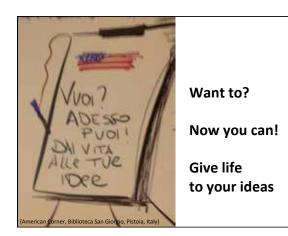


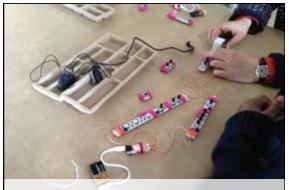












No Two Makerspaces Are The Same.





#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?

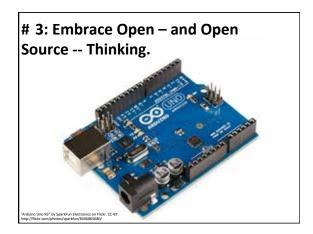


Example: Michigan Makers

- 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).













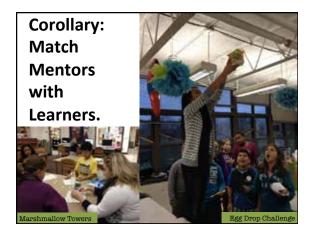


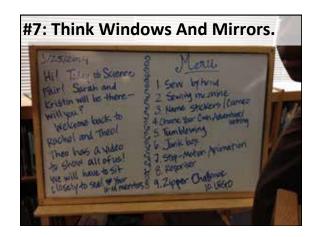
Corollary: Sometimes, making allows for self-soothing and re-centering.



#6: Develop Peer Leadership.







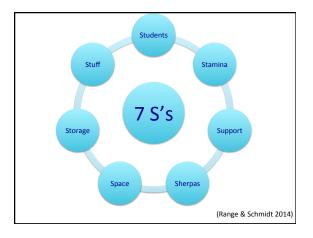


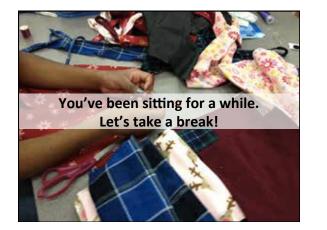


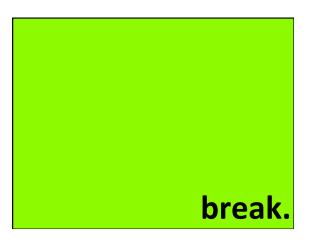




Corollary: Celebrate by just making something.







determining purpose

why does this matter?



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

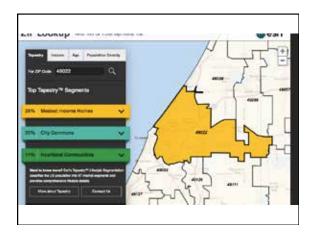
(Dewey 1900)

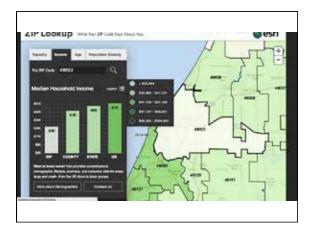


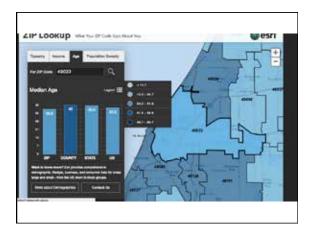
What mindset and culture come before the tools. What mindset do you want to develop in your patrons/learners? How do you know what folks want?

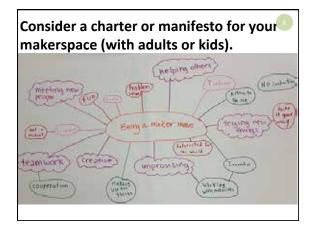
Data Points

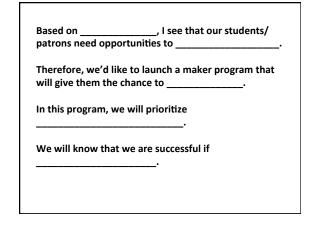
- School Curriculum
- Library Circ Patterns
- Petting Zoos (pool your resources!)
- Mel.org → Databases > DemographicsNow
- ESRI Tapestry (http://www.esri.com/landingpages/tapestry)













ok. now how do we structure this?



Some context! For us, making prioritizes:

<u>Process</u> over product

Agency over teacher-directed work

<u>Choice</u> 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?

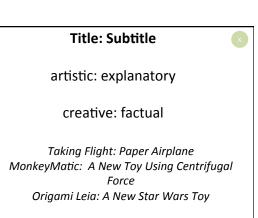
If we were to repeat the exercise and share those criteria, what do you think might happen to the range of ideas we saw?

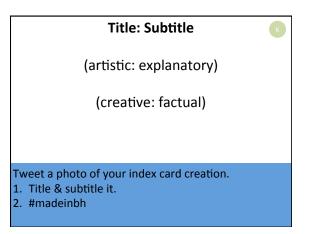
It's really hard to compare open-ended work, isn't it?

But what gets assessed gets attention, right?

So how do we assess in our maker efforts? Maybe we don't measure what they make. Maybe we measure their thinking instead.

Seven Strategies 1. Title: Subtitle 2. Process Journals 3. Stand-Up Meetings 4. Design Challenge 5. Gallery Walking 6. Artist Statements 7. Portfolios







Design Challenges

Common challenge for each student
Open options for completion to give space for agency and choice
Agreed-upon metrics for success
Built on curriculum learning
Preceded by direct instruction and/or interspersed with mini-lessons as needed
Time limits serve to motivate creativity within constraints

#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

- We have studied how ______ influenced society by
- harnessing/inventing ______. What new global challenge do you see needing to be solved? Create a prototype for your solution.
- People with Parkinson's have difficulty eating soup because their hand shakes. Research existing solutions and design an alternative ...



Your Challenge! By

Individual Challenge

- Create a sculptural representation of the theme or conflict of your favorite book or historical event.
- Be prepared to explain the choices you made.
- Use a sticky note to create a catchy title and informative subtitle, like this: Alone Among Others: A Key Social Theme in Hamlet

Group 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

Gallery Walk until

Framing gallery walk/exposition etiquette with kids Move your creation to the back of the dining hall (leave your workspace as is) Remember your caption! Fun title: Informative subtitle Take turns staffing your station





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 Statements at multiple points in process

Formative Assessment

- "Ticket out the door"
- Index card
- A few sentences or a
- paragraphCloze 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's Statement

This group of pictures was completely unexpected. I private is taky test autours as a Walling Addet of the American Academy in Norm, with gives for a present involving facets are abaditioned autointente or Ordis, and portuge something methods are private in the faulty perturbation and them. The immunfact day there I made may over pillermage to the Patcheon, one of my facets before the lesions to be in Rame, and and mark a private additional.

anothing a provery exclusions. A constant shream of initiates entries and exists the Restlheon all days. For the most part, they have their seconding invices held high over head as they entre, forgoing the sile faultered may of looking at seconding invices held high over head as they entre, forgoing the sile faultered may of looking at seconding invices held high over head as they entre, forgoing the sile faultered may find days into a theory, and/or account for extreme all assers into risks. These was constituting cheming about its second may be accessed on the fit means approximately the second and into the order, the res of Could field is a statement or methanism in media. These may interview if the the seconds, the rest of the field into a shafter, studying the arress of any own camera and settling for the manimum and could be for the accound on the most here they are all could. I field into a shafter, studying the arress of any own camera and settling for the manimum and account of the account on the second from the study. If which is the interview is the second on they own camera and settling for the manimum of a study for the account of the first here applies.

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Joel Lehvik, Rubert and Ruth Helpertin Professer in Phonography, Department of Art & Ani Heavy, Stanford University. Deduced law my listed Schurd, Gunden.

lunch 1-2pm

if time, artist statement practice

break

maker activity stations until

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

reflection, closure, next steps, evaluation

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