Making and Literacy

Immerse your students in the maker mindset.
Focus on INQUIRY to Drive Hands-On Learning
POLL

AT WHAT GRADE LEVEL DO YOU TEACH?

ELEMENTARY  MIDDLE  HIGH SCHOOL

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POLL
ARE YOU CURRENTLY RUNNING MAKER ED PROGRAMMING?

CLUBS? WORKSHOPS? FREE MAKER TIME?

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Making and Writing Are an Iterative Process
Big Ideas on WRITING AND MAKING?

- Process and Drafting more important than final product.
- Inquiry Based- Research methods vary from traditional to crowdsourced.
- If you value process, documentation is needed and necessary.
The Writing/Making/Engineering/Science/Art Process

Notice something?
Making and Writing are an iterative process.
Documentation
values process
over product

STUDENTS ARE ENCOURAGED TO TRY
THINGS, LEARN NEW SKILLS, AND
PERSERVERE

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The real meaning is in the process

SHOW YOU VALUE PROCESS OVER PRODUCT
"Making, a draft, a drawing, a prototype, helps you fuse ideas, choose among them, and build on what you like."
-Keith Sawyer

From: Zig Zag: The Surprising Path to Greater Creativity
Maker Research:

- Materials
- History/how it works
- Basic info
  - Crowdsourced Research
    - What have others done?
    - What worked?
    - What didn’t?
    - What problems were encountered?
Infusing Creativity

All humans are capable of creative thinking
Big Ideas on INFUSING CREATIVITY

- Start with “half-baked prototypes” (Tinkering Studio)
- Try “Open Middle Projects” (Jay Silver)
- All students can be creative with everyday stuff because it is accessible.
Half-baked Prototypes
Open Middle Projects

If you take the tools, container, materials, and open one of them, then you get a vast world of possibilities.

—Jay Silver, founder/CEO of JoyLabz/Makey Makey

--From Challenge Based Learning in the School Library Makerspace
Inventive material leads to creative thinking.

The Maker Mindset is about using what you have available.

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Problems drive unique solutions.
Let students tinker to problem solve.

The maker mindset is about serious play that leads to creative solutions.
"All human beings possess the same mental building blocks that inventive minds stack high to produce works of genius."

–Keith Sawyer

From: Zig Zag: The Surprising Path to Greater Creativity
YOUR TURN:

STARTING YOUR OWN JOURNEY AND
PERSEVERING
Strategies for Maker SUCCESS
STARTING OUT

- Form Goals
- Immerse Yourself in Making
- Determine Funding and Write Grants
- Start Sharing
- Get Others Involved
- Let Your Student Voices Be Heard
- Listen to Students
- Give Students Ownership
Libraries have always been a place to consume books and create knowledge. Which is why a makerspace is a logical extension of this inquiry-based space.
What is your current library vision? How can you include making and the maker mindset as part of this vision?

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WHAT DO YOU WANT YOUR STUDENTS TO LEARN?

BEGIN WITH THE END IN MIND. WHAT DO YOU WANT TO SEE HAPPEN IN YOUR LIBRARY MAKERSPACE?
CHAT
WHAT DO YOU WANT TO SEE IN YOUR SPACE?

CLUBS?
WORKSHOPS?
FREE MAKER TIME?

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How can we form goals that align with library vision and school mission?
Get HANDS ON!
PLAY to LEARN!

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Implementing Maker Ed in rural or low SES neighborhoods
What is doable? FOR YOU?

- Free-range maker time?
- Lunchtime Workshops?
- Maker Monday?
- Themes?
- Integrated with curriculum?
Engagement Strategies

SUSTAIN THE AWESOME

- Let your Student Voices be heard
- Let Students be ACTIVE participants in their own learning
- Listen and partner with teachers
- What needs can your makerspace fill?
"AFTER YOU HAVE ESTABLISHED A CULTURE OF MAKING WHERE STUDENTS ARE LITERATE IN A MEDIUM, STEP BACK AND LET THEM CREATE."

Collin Graves - collingraves.org
Q&A?

https://goo.gl/ Q6PFJ5