

**Building Curiosity,  
Confidence, and  
Community  
Through Making**



Presented on March 9, 2018

# Save the date for these upcoming WiLS events:

- ★ Peer Council: June 4, 2018 - Madison Public Library
- ★ WiLSWorld 2018: July 24th and 25th, Pyle Center, Madison



# Building Curiosity, Confidence, and Community Through Making

WiLS World Short

March 9, 2018

imagine what's possible™

# Today's Presenters



Wendy Harrop, Educational Technology / Makerspace Librarian  
Summit Elementary School, Oconomowoc  
[wkharrop@gmail.com](mailto:wkharrop@gmail.com)



Jacie Maslyk, Assistant Superintendent, Veteran Educator & Author  
Hopewell Area School District, PA  
[@DrJacieMaslyk](https://twitter.com/DrJacieMaslyk)



Angie Schoeneck, Growth Strategy Manager - Demco  
[angies@demco.com](mailto:angies@demco.com)  
[@ASchoeneck](https://twitter.com/ASchoeneck)

# Summit Elementary School Maker Space



**Wendy Harrop**

Educational Technology /  
Makerspace Librarian

[wkharrop@gmail.com](mailto:wkharrop@gmail.com)

# Why Makerspaces?

- Valuable design process and STEAM learning
- Develop “soft skills”
- Student driven/personalized ;earning
- Reach underrepresented populations
- FUN!

# Year 1 - Bringing Making into the Learning Environment

- Introduce the Maker Mindset
- Learn the materials
- Learn the design process
- Educating and involving the community



# Year 2 - Into the Classrooms

- Integrating curriculum
- Mobile carts
- Involve classroom teachers
- Community Outreach





# Year 3 - Becoming Part of the Culture

- Clubs
- STEAM Nights
- Student drop-in
- Student driven integration
- Enrichment blocks



# Year 4/5 - STEAM and Storytelling

- Integrating the Humanities
- Focus on Girls
- Focus on Global Collaboration



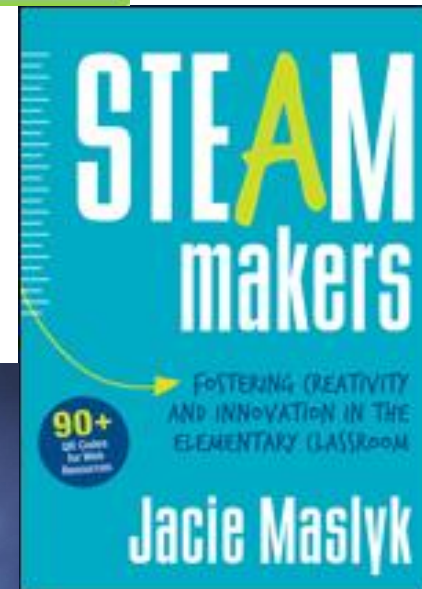
imagine what's possible™



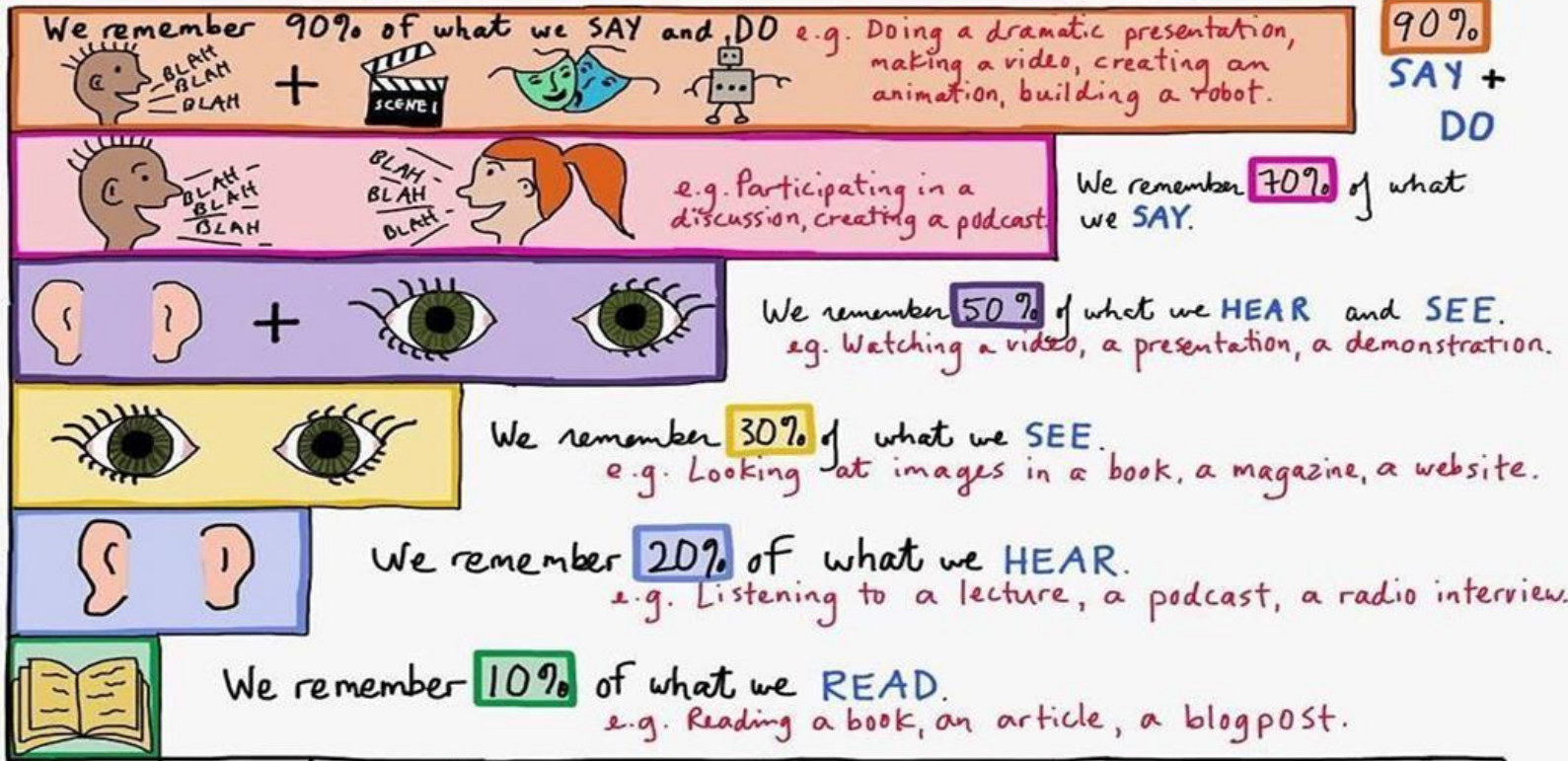
Ideas and resources from this webinar are available on my website:  
[www.steam-makers.com](http://www.steam-makers.com)

Check out my STEAM Makers Pinterest page:  
<https://www.pinterest.com/jaciemaslyk/steam-makers/>

Follow me on Twitter @DrJacieMaslyk



# What We Remember



10%    20%    30%    50%    70%    90%

Based on the work of Edgar Dale

@sylvriaduckworth

## Innovation Literacy

A way of thinking that creates new experiences around literacy teaching and learning through creativity and design.

- @DrJacieMaslyk

# Why Making?

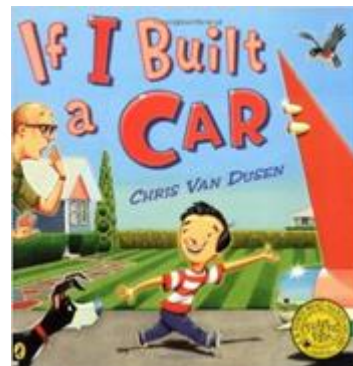
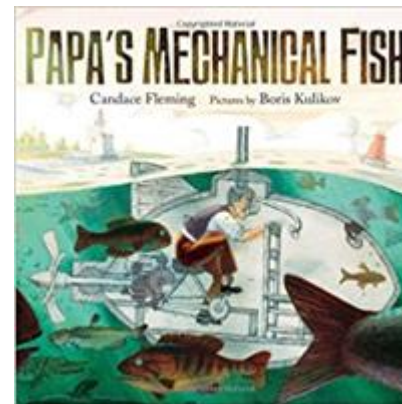
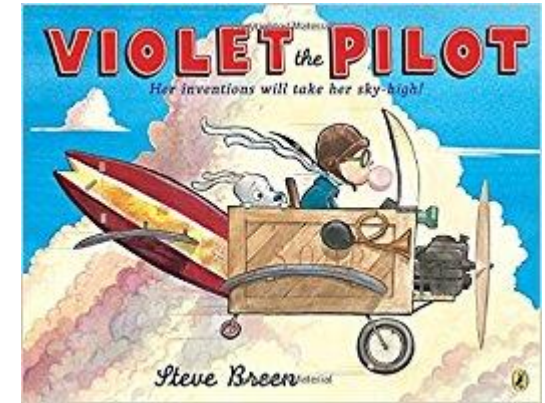
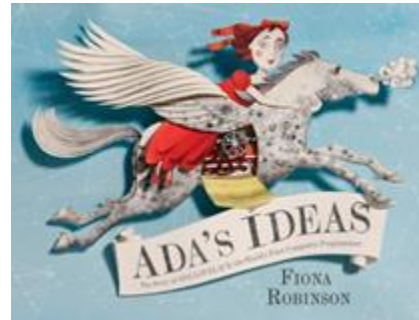
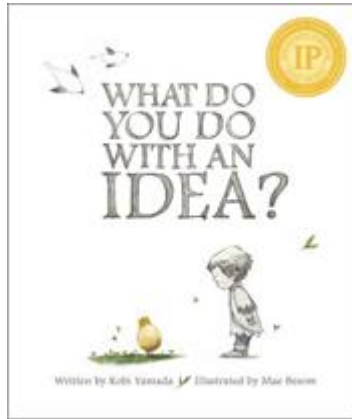
- An opportunity to learn through hands-on/minds-on work that fosters curiosity, creativity and innovation through messing, building, designing, hacking, and remaking.



# 3 Literacy Connections

- **Content**
- **Theme**
- **Dispositions**

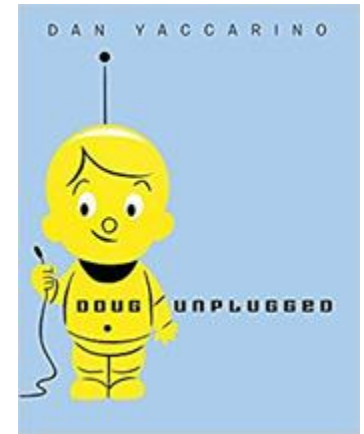
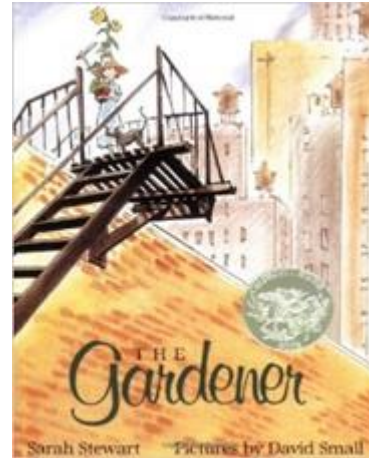
# Content



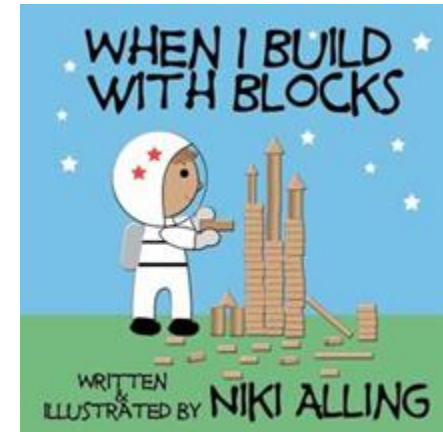
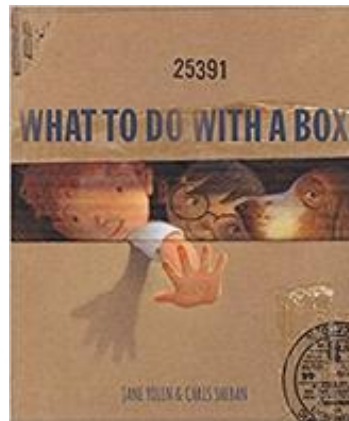
Explore what the characters are doing in the story.



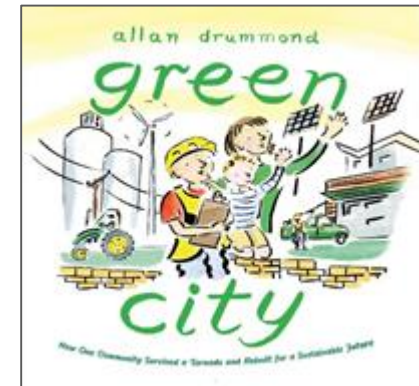
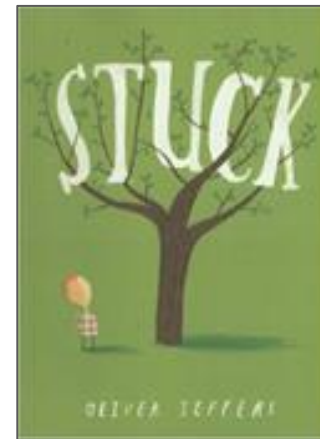
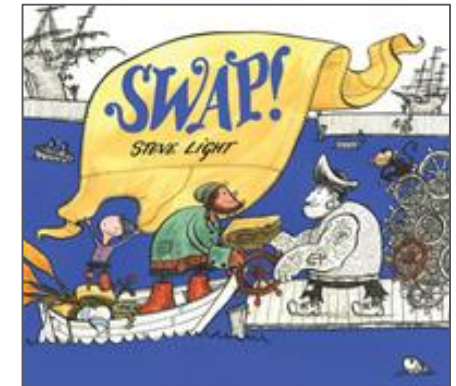
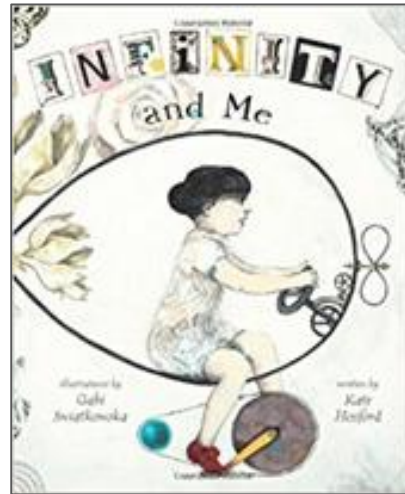
# Theme



Create in the medium featured in the story.

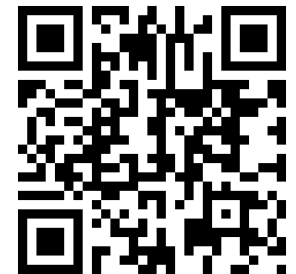


# Dispositions



Develop the  
mindset of  
the  
characters in  
the story.

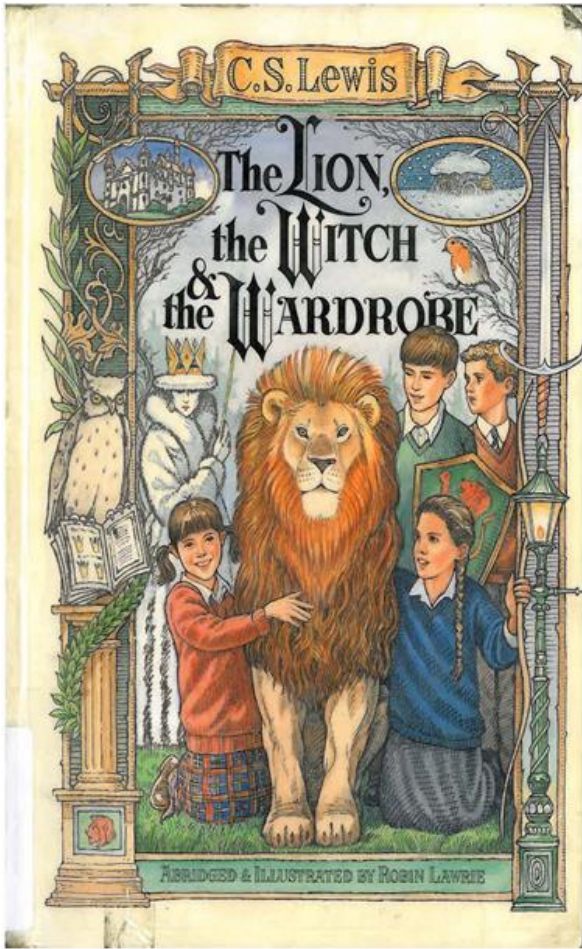
<https://padlet.com/jmaslyk1/tmhfcf8rpy8z>



# Secondary Literature Selections

- The Giver
- Ender's Game
- Long Walk to Water
- Lord of the Flies
- To Kill a Mockingbird
- The Martian
- Ready Player One





# Simple Ways to Add Making to ELA

- Create a new ending to a story using video animation
- Bring the character to life through design/draw/build
- Construct a 3D scene from a story
- Design a solution for a problem a character is having
- Retell the story using robotics
- Design props, costumes, or artifacts

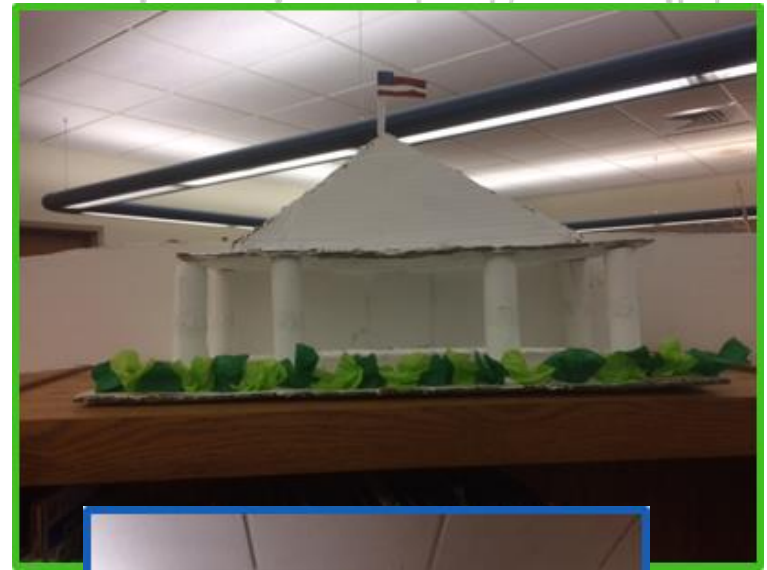
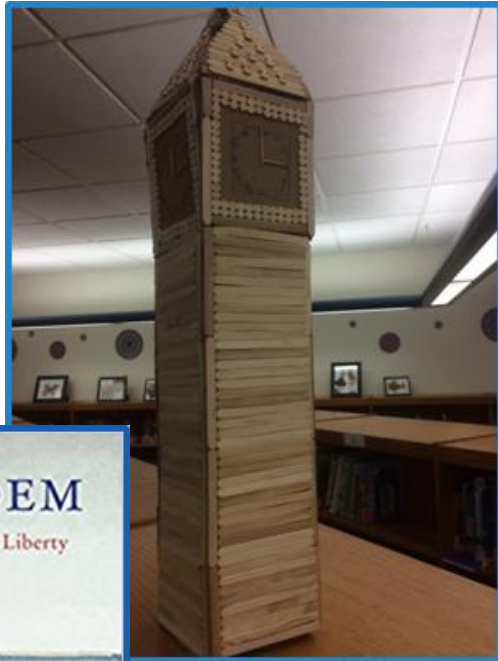
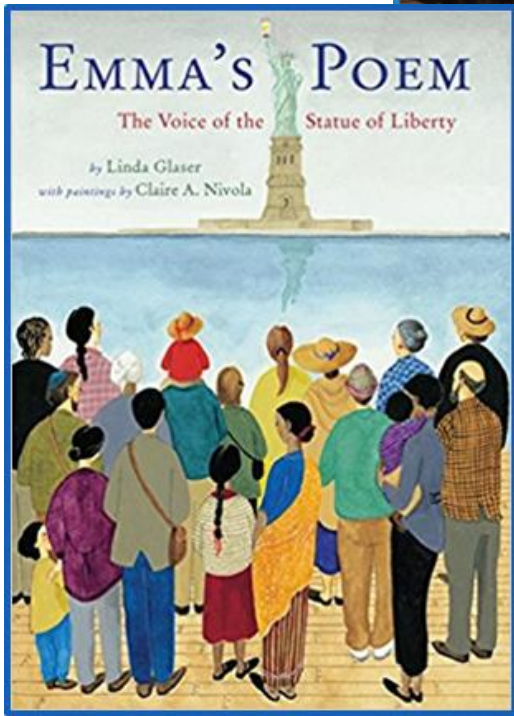
BOOK	AUTHOR	MAKE IT!	A LITTLE INSPIRATION	QR CODE
<i>The Miraculous Journey of Edward Tulane</i>	Kate DiCamillo	Re-create a scene from the story for Reader's Theater including creating costumes, scenery, props, backdrop.	There are lots of resources surrounding this <i>Global Read Aloud</i> Book from 2014: <a href="http://www.edwardtulane.com">http://www.edwardtulane.com</a> <a href="https://www.pinterest.com/emilyhstarkey/miraculous-journey-of-edward-tulane">https://www.pinterest.com/emilyhstarkey/miraculous-journey-of-edward-tulane</a>	Edward Tulane Edward Tulane Pinterest
<i>Sib! We Have a Plan</i>	Haughton	Learn about the design process.	PBS Design Squad <a href="http://pbskids.org/designsquad">http://pbskids.org/designsquad</a>	PBS Design Squad
<i>The Great Kapok Tree</i>	Lynne Cherry	Build a model of the layers of the rainforest.	Here's a great Prezi with a link to a fascinating YouTube video: <a href="https://prezi.com/phl2comcrp/the-great-kapok-tree/#">https://prezi.com/phl2comcrp/the-great-kapok-tree/#</a>	The Great Kapok Tree Prezi
<i>Not a Box</i>	Antoinette Portis	Use recycled materials to create a "not a" story; for example, not a button, not a battery, not a thread.	Try these bookmaking websites to design and publish books: <a href="http://www.storyjumper.com">http://www.storyjumper.com</a> <a href="https://www.mystorybook.com">https://www.mystorybook.com</a> <a href="https://storybird.com">https://storybird.com</a>	Storyjumper My Storybook Storybird
<i>The Boy Who Harnessed the Wind</i>	William Kamkwamba	Build a windmill.	<a href="http://tryengineering.org/lesson-plans/working-wind-energy">http://tryengineering.org/lesson-plans/working-wind-energy</a> <a href="http://learn.kidwind.org/learn/science_fair_projects">http://learn.kidwind.org/learn/science_fair_projects</a>	Try Engineering

*STEAM Makers: Fostering Creativity and Innovation in the Elementary Classroom*

# Robotics



<https://twitter.com/twitter/statuses/922929528640561152>



**Reading is an active,  
imaginative act; it takes work.**

Khaled Hosseini

quote fancy



# 21<sup>st</sup> Century Learning Spaces



- Flexible
- Access to Power & Device Charging
- Inviting & Comfortable
- Seating Options for individual and group work



# Massapequa Before...

imagine what's possible™



Challenge: Update outdated, dull, and static space to bring in more students



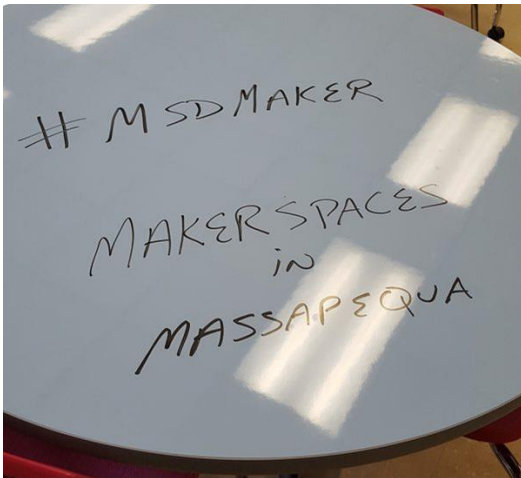
Massapequa School District (NY)

# Massapequa After...

imagine what's possible™



Action: Make small changes to tables, chairs, and storage.

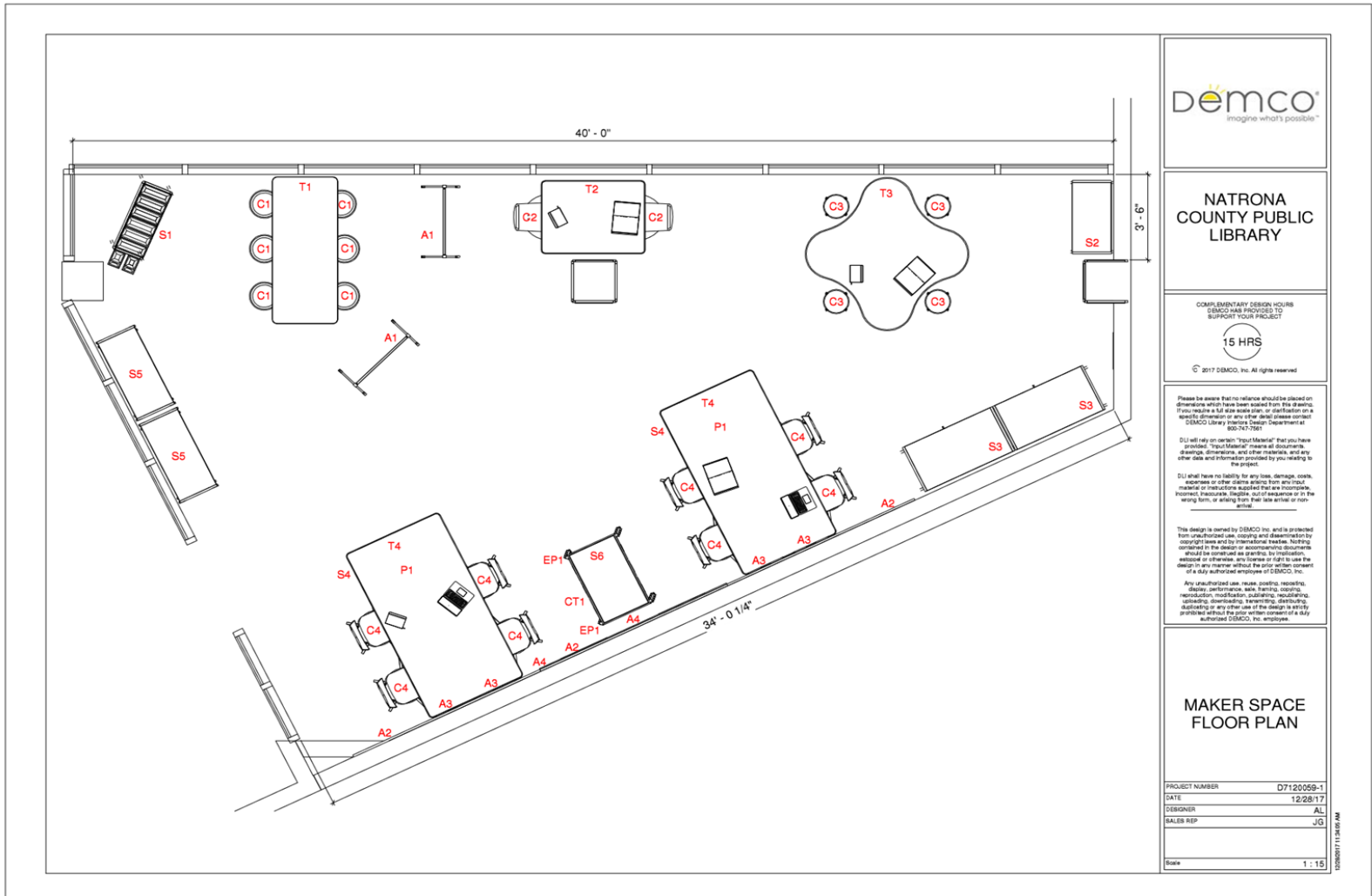


Outcome: Space is welcoming, engaging, and gives students easy access to needed materials. [Read the full story.](#)

# Makerspace Floor Plan Drawing

## Natrona County Public Library

imagine what's possible™



# Natrona County Public Library New Makerspace Shown as a 3D Rendered Drawing



# Natrona County Public Library Take a Virtual Tour of New Makerspace



**EXPERIENCE THIS SPACE IN  
VIRTUAL REALITY!**

**CLICK ANY IMAGE OR  
SCAN QR CODE**

## 4 Idea-Starter Makerspaces



TINKER NOOK



CREATOR COVE

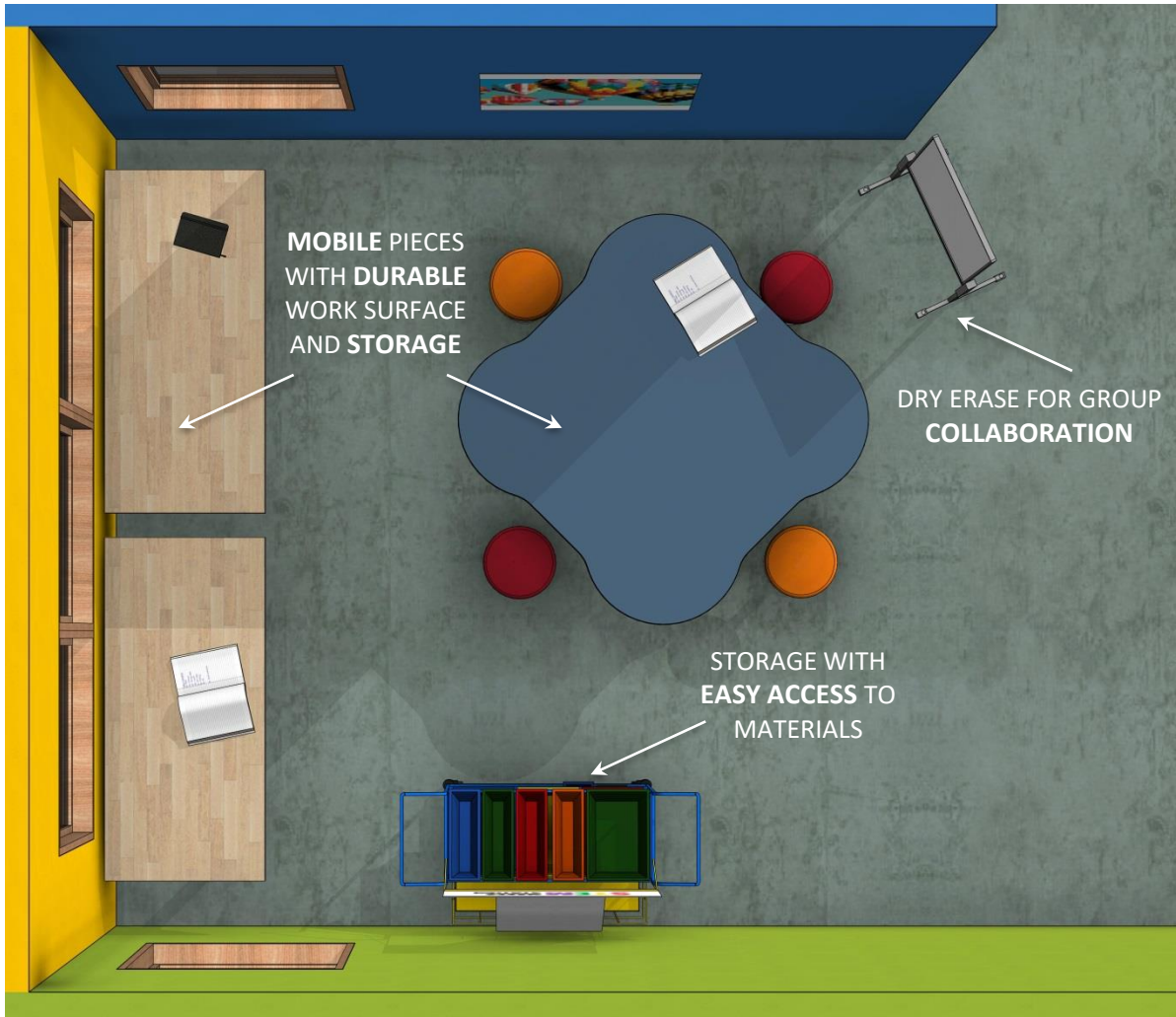


BUILDER HAVEN



INNOVATOR SANCTUARY

# TINKER NOOK- 12' x 12' (144 SQUARE FEET)



**FREE FORM**

**IMAGINATIVE**

**CRAFTY**

**COOPERATIVE**

**BUSY**

Even the smallest space can become an inspirational starting point. With a flexible, open work environment your space can encourage exploration and creativity. This atmosphere gives the guest permission to be creative.



**EXPERIENCE THIS SPACE IN VIRTUAL REALITY!  
CLICK ANY IMAGE OR SCAN QR CODE**





# TINKER NOOK- 12' x 12' (144 SQUARE FEET)

FREE FORM

IMAGINATIVE

CRAFTY

COOPERATIVE

BUSY



Mobile STEM Station  
Item # WF13746520



Mobile Work Bench  
Item # WF13719180



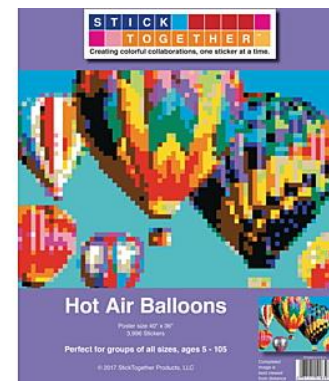
Premium Maker Station  
Item # WL13668760



Teen Orbit Stool  
Item # WR13745570



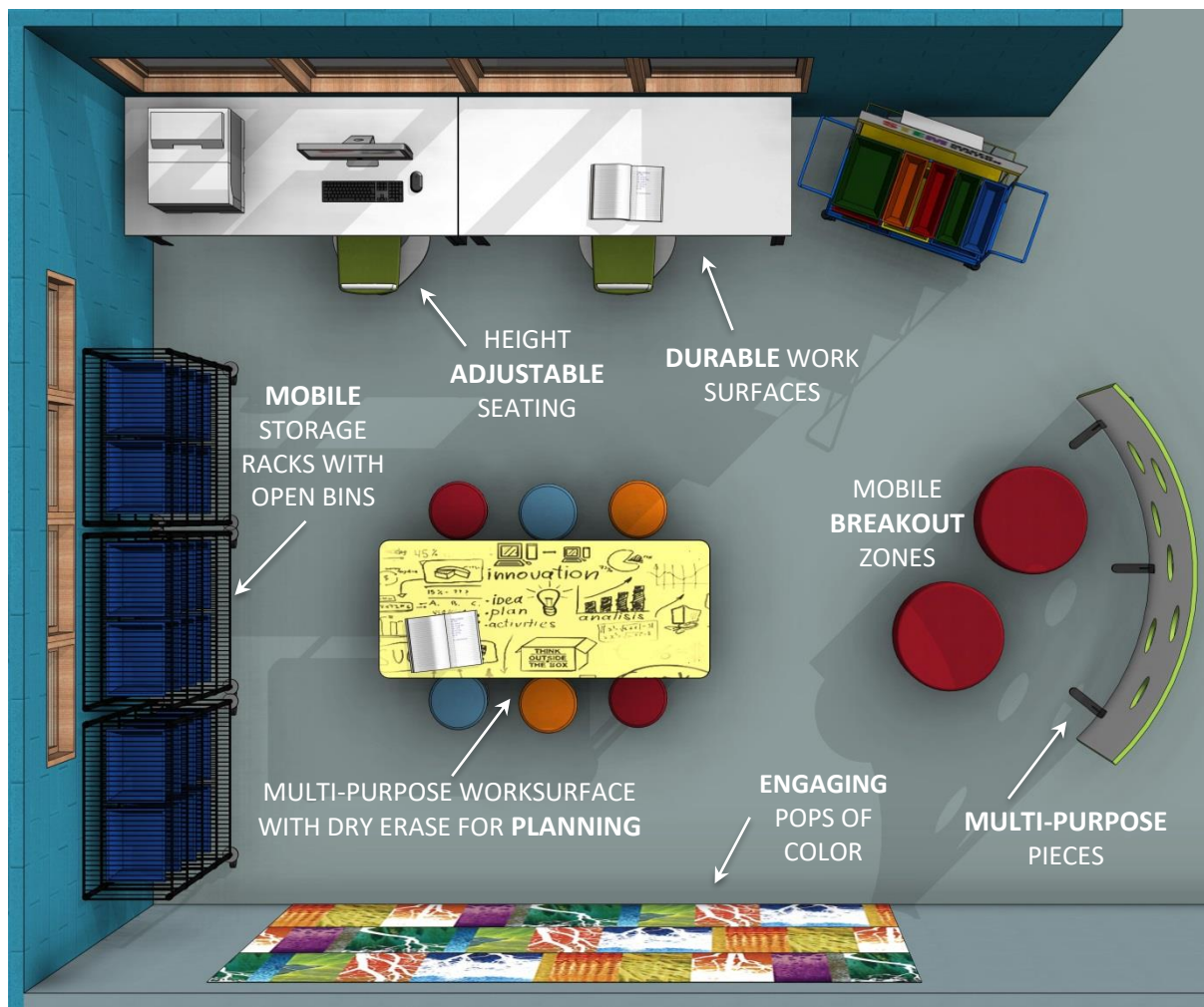
Marker Board Easel  
Item # WE13714800



Stick Together  
Item # WL13748030

CLICK ANY IMAGE FOR ADDITIONAL  
PRODUCT INFORMATION

# CREATOR COVE - 15' x 17' (255 SQUARE FEET)



**ORGANIC**

**HANDS ON**

**ACTIVE**

**MESSY**

**FUNKY**

Take advantage of every opportunity to update an unused space into a creative hotspot. Durable work surfaces and ample storage are the name of the game in most developing maker spaces. Building a functional environment with a few key pieces of furniture will help foster the creativity of your patrons.



**EXPERIENCE THIS SPACE IN VIRTUAL REALITY!**  
**CLICK ANY IMAGE OR SCAN QR CODE**

**demco**<sup>®</sup>  
imagine what's possible™

# CREATOR COVE - 15' x 17' (255 SQUARE FEET)

## ORGANIC



UltraZinc Steel Wire Shelving  
Item # WF13749980

## HANDS ON



Economy Workbench  
Item # WL13744160

## ACTIVE



Vivo Perch Stool  
Item # WR13745400

## MESSY



Cheesewall Divider  
Item # WF13726010

## FUNKY



Colors of Nature Wall Mural  
Item # WF13692900



Premium Maker Station  
Item # WL13668760



Teen Orbit Stool  
Item # WR13745570



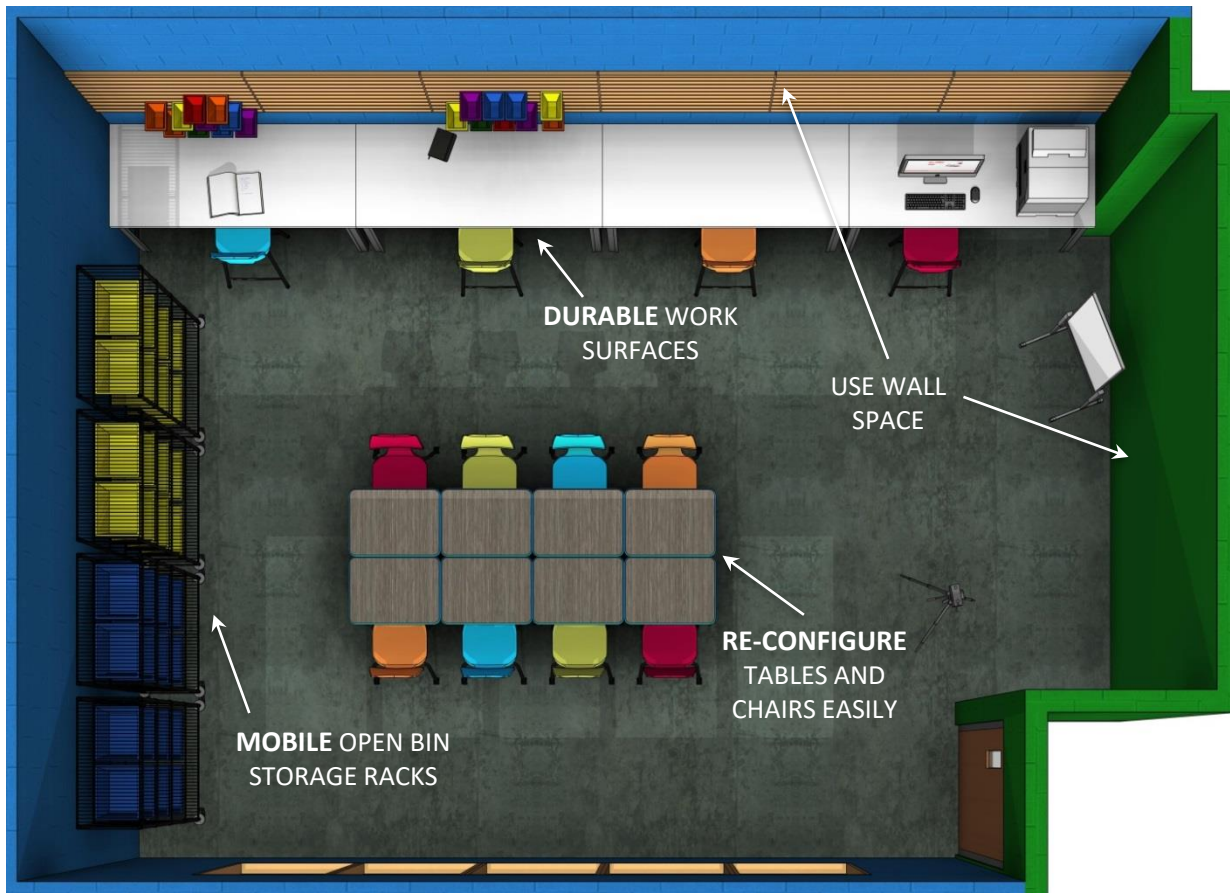
Imagination Station Dry-Erase Table  
Item # WR13698170



Totem Pod with Casters  
Item # WF13670420

**CLICK ANY IMAGE FOR ADDITIONAL  
PRODUCT INFORMATION**

# BUILDER HAVEN- 25' x 18' (450 SQUARE FEET)



**CREATIVE**

**ORGANIZED**

**INNOVATIVE**

**FLEXIBLE**

**INSPIRING**

Space is a tool that can be used to generate enthusiasm. Make the most of your space with long lasting flexible furniture. Patrons will be excited to create, tinker, and explore new ideas that will nurture their problem solving skills.



**EXPERIENCE THIS SPACE IN VIRTUAL REALITY!  
CLICK ANY IMAGE OR SCAN QR CODE**



# BUILDER HAVEN- 25' x 18' (450 SQUARE FEET)

## CREATIVE



UltraZinc Steel Wire Shelving  
Item # WF13749980

## ORGANIZED



Economy Workbench  
Item # WL13744160

## INNOVATIVE



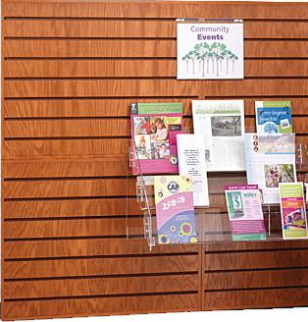
Flavors Café Stool  
Item # WF13638590

## FLEXIBLE



uLite Green Screen Kit  
Item # WR12244900

## INSPIRING



Slat Wall Display Panel  
Item # WF14907170



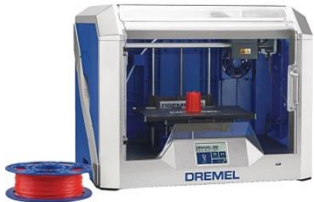
Flavors Stack Chair with Casters  
Item # WF13740690



Silhouette Desk  
Item # WF13746890



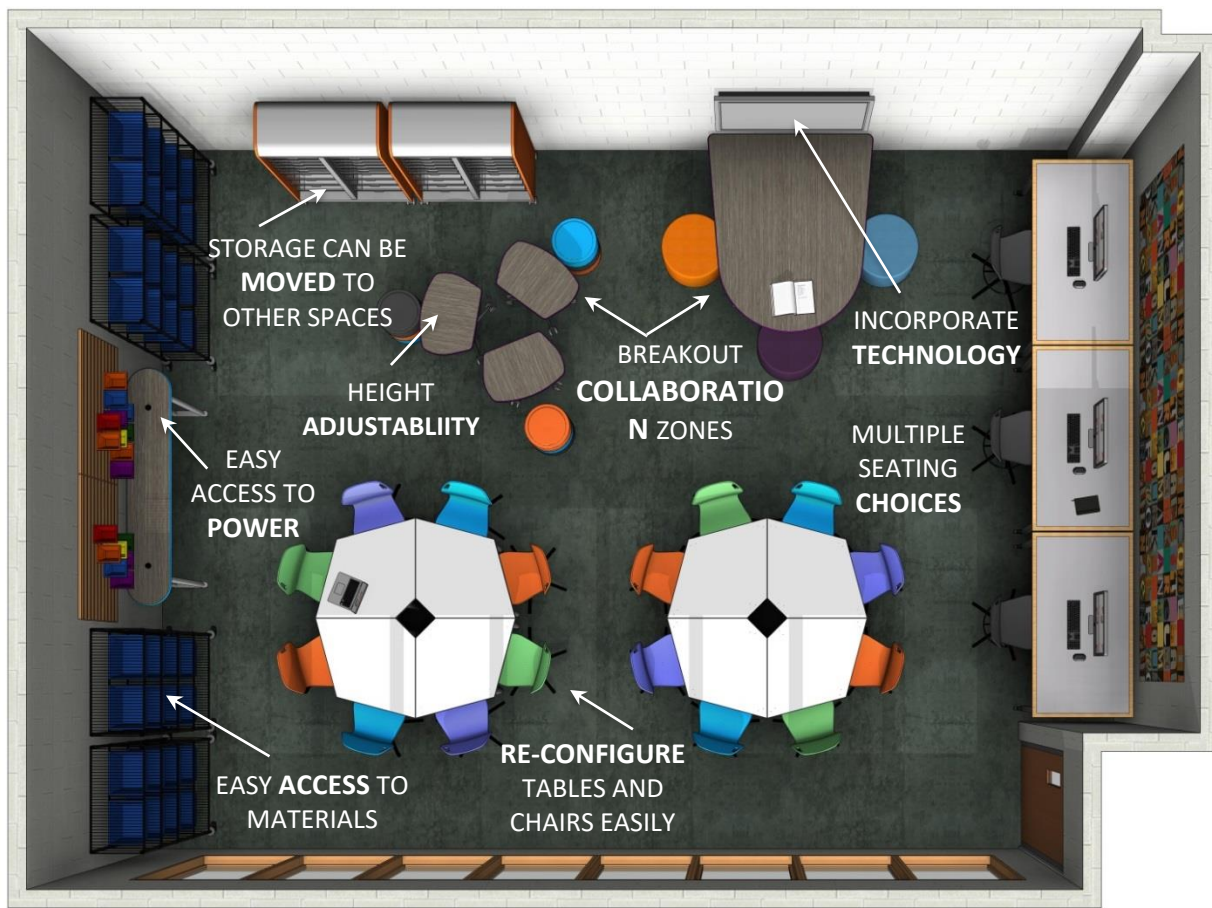
Marker Board Easel  
Item # WE13714800



Dremel 3D Printer  
Item # WL13747200

**CLICK ANY IMAGE FOR ADDITIONAL  
PRODUCT INFORMATION**

# INNOVATOR SANCTUARY - 30' x 22' (660 SQUARE FEET)



**INTERACTIVE**

**FUNCTIONAL**

**ENGAGING**

**MOBILE**

**COLLABORATIVE**

Makerspaces have a wide variety of functions. The appropriate furniture mix can help facilitate multiple activities; from large group classes, to small group collaboration, to individual endeavors. Allowing these differing types of hands-on work in one space can reveal new methods and ideas and inspire growth.



**EXPERIENCE THIS SPACE IN VIRTUAL REALITY!  
CLICK ANY IMAGE OR SCAN QR CODE**



INNOVATOR SANCTUARY - 30' x 22' (660 SQUARE FEET)

INTERACTIVE

FUNCTIONAL

ENGAGING

MOBILE

COLLABORATIVE



UXL Power Bar  
Item # WR13720380



Kite Mobile Tables  
Item # WF13684780



Intuit Adjustable Chair  
Item # WF14909010



Skware Maker Table  
Item # WL13702290



Sit & Stand Student Desk  
Item # WF13755040



UltraZinc Steel Wire Shelving  
Item # WF13749980



Totem Pod with Casters  
Item # WF13670420



D-shaped Media Table  
Item # WF13655610



Wall Mural  
Item # WF13631840



Cascade Mega Tower  
Item # WF12219890



oodle Seating  
Item # WF13747570

CLICK ANY IMAGE FOR ADDITIONAL PRODUCT INFORMATION

# Makerspace Resources - Available from Demco



DEMCO Interiors works collaboratively with librarians, educators, architects and designers to create inspiring environments.

Read the story of [Hartland South Elementary School's Library and STEM Lab renovation.](#)



A collection of free webinars, blogs, & idea galleries. Register for the April 5 webinar, [Promoting Meaningful Making in Your School](#) by Nicholas Provenzano, known as The Nerdy Teacher



Upcoming

## Promoting Meaningful Making in Your School

April 5, 2018,  
4:00 p.m. ET / 3:00 p.m. CT

Register

Do you already have a makerspace, or are you looking to start one and you want to make sure it is more than just a fad or a gimmick? In this webinar, maker expert Nicholas Provenzano will share with you the many different ways to create an inclusive, meaningful and accessible makerspace that will allow students to explore and learn in the ways that matter most to them. Another important part of making is supporting the mindset that goes along with it. This Maker Mindset is what drives students and teachers to make, fail, learn and grow. Not all makerspaces are created equal, and this webinar will help you tailor your space to the needs of your students and your teachers.

After a brief introduction of what a makerspace in your school can look like, the conversation will shift to the different ways that educators can create meaningful opportunities for learning in the space. Different approaches to inclusion of all students and content areas will be explored as well as supporting students through failure and helping them understand that making is about the journey and the destination. Nicholas will also answer your specific questions at the end of the webinar to help you find ways to nurture the long-term growth of your makerspace.

### You will learn:

- 1 The different ways you can implement a makerspace and what it can look like at your school.
- 2 What "meaningful making" actually means in a makerspace.
- 3 How to create an inclusive making environment and support the Maker Mindset for all students and staff.
- 4 Different ways to diversify your makerspace to support all students and staff.





# Makerspace Resources - Available at Demco.com

## YOUR GUIDE TO EVERYTHING MAKERSPACE

Explore flexible furniture and organization solutions, as well as learning and technology tools that fuel the mind, encourage collaboration, and facilitate meaningful, accessible making.



Shop All Makerspace Products



STEM



Furniture



Organization



Technology



Arts & Crafts



## Getting Started With Making: Your Guide & Checklist

### Introduction

Over the past several years, the concept of creation spaces, or makerspaces, has found a home in libraries. With the learning opportunities and equitable access libraries have always offered, makerspaces are a perfect fit.

This guide was created to help you identify your goals and objectives and bring focus to how you will meet the needs of your students or community.

The answers may not be clear right away, and your decisions may change as you go — and that's okay. This is your planning tool — make it work for you. Check anything that applies today and highlight ideas for the future.



### Start With Your "Why"

What are the driving forces or needs motivating you to build your makerspace?

For schools, makerspaces offer project-based and collaborative learning opportunities, encourage design thinking and perseverance, and are the perfect place to help students develop critical 21<sup>st</sup>-century skills.

For public libraries, it may be that your community members need a resource for developing job skills, access to technology for personal or business use, or free and educational STEM opportunities. A makerspace can help you provide an access point to innovative learning resources and engage with patrons in new ways.

Before diving into the details of your new space, take a moment to think about *your* makerspace mission.

Demco.com features a [Makerspace landing page](#) with a curated collection of all things maker, including furnishings, technology and learning resources.

Make sure to download the [Getting Started Making Guide & Checklist](#) - full of prompts to help you're planning.

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Our FREE grant database allows you to search for current available grants without the cost of an expensive subscription. We invite you to use it as much as possible to find the right funds for your library or organization. The database is updated regularly so please check back often for new opportunities.



Work Email: Required

State: Required

Search results always include National grants.

Live Chat



ANY  
QUESTIONS  
?