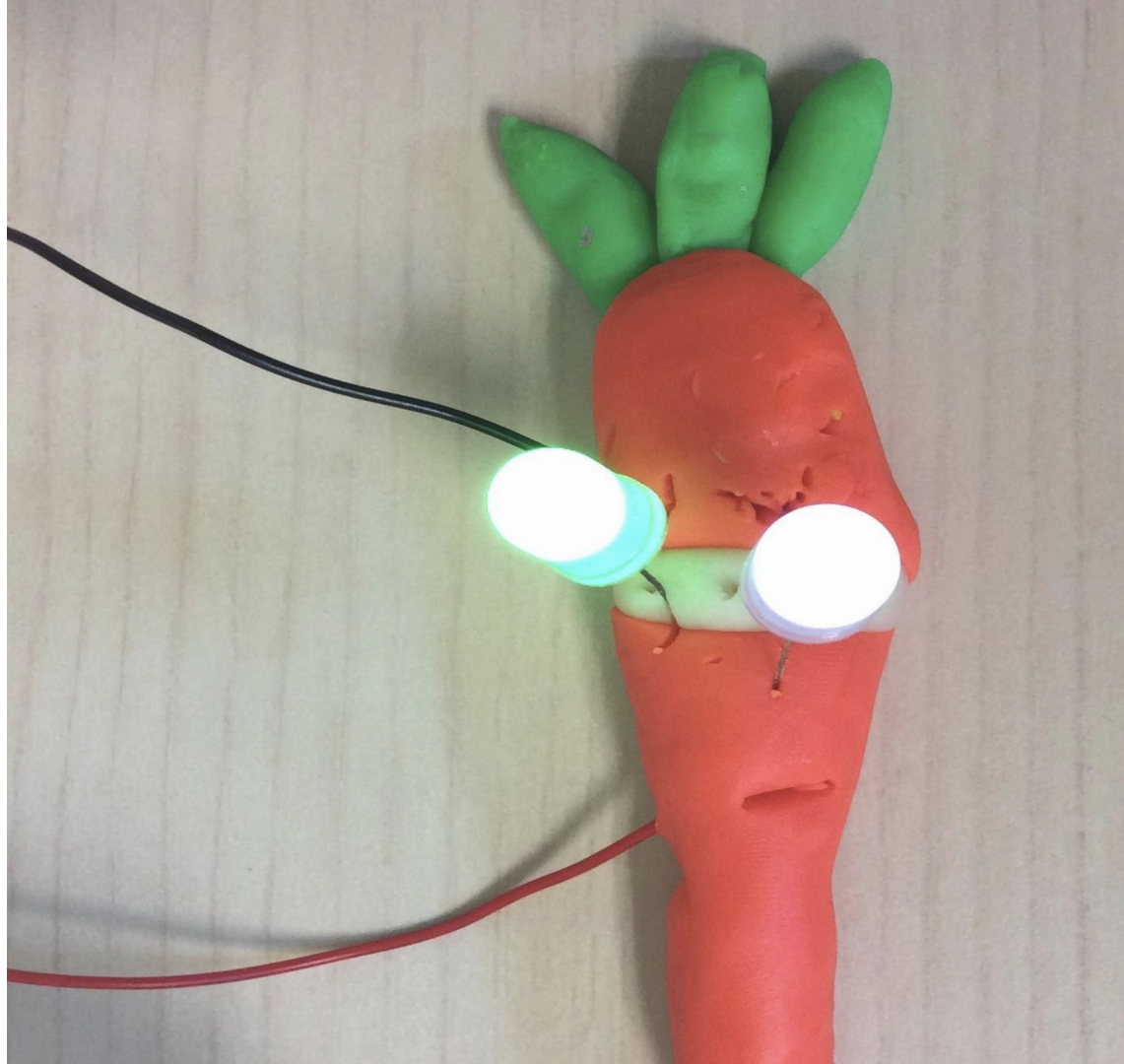


Making Gone Virtual with GAFE



<http://bit.ly/2k6vDHG>

Melanie Mulcaster
Peel DSB
@the_mulc



Why makerspaces?



AnswerGarden

Why makerspaces?

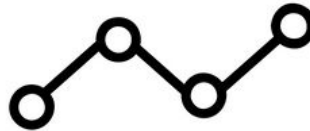
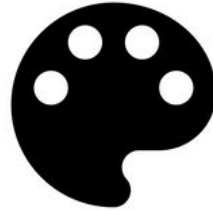
Type your answer here...

20 characters remaining

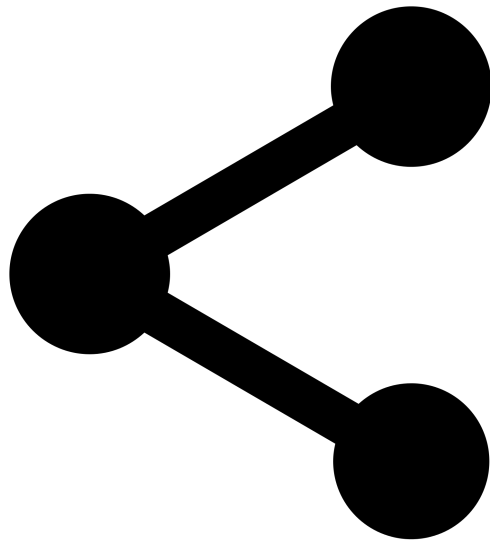
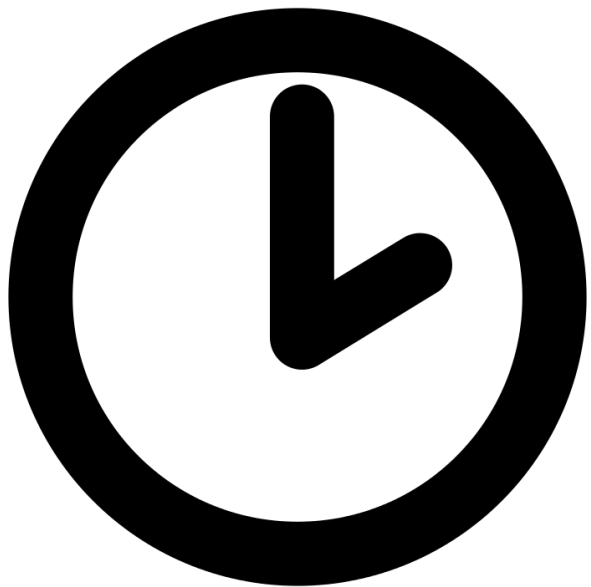
Submit

<http://bit.ly/2jFBrcN>

Makerspaces
are
developed
to....



Houston, we have a problem.....



Layer with The Virtual Makerspace

WHAT WORKS

The Virtual Makerspace

A New Possibility?

David V. Loertscher

From Consumption	To Creation
Read a book	Write a book
Play a game	Create a game
Use an App	Create an App
Listen to music	Compose music
Watch a YouTube video	Create and publish a YouTube video
Over to you...	

A Virtual Solution....



A place where students can:

- explore and (eventually) tailor learning experiences to fit their personal interests/needs/skill sets
- collaborate; adding, questioning, sharing and reflecting on learning
- bridge the gap between what they can do independently and what they can accomplish with assistance

Wherever - whenever!

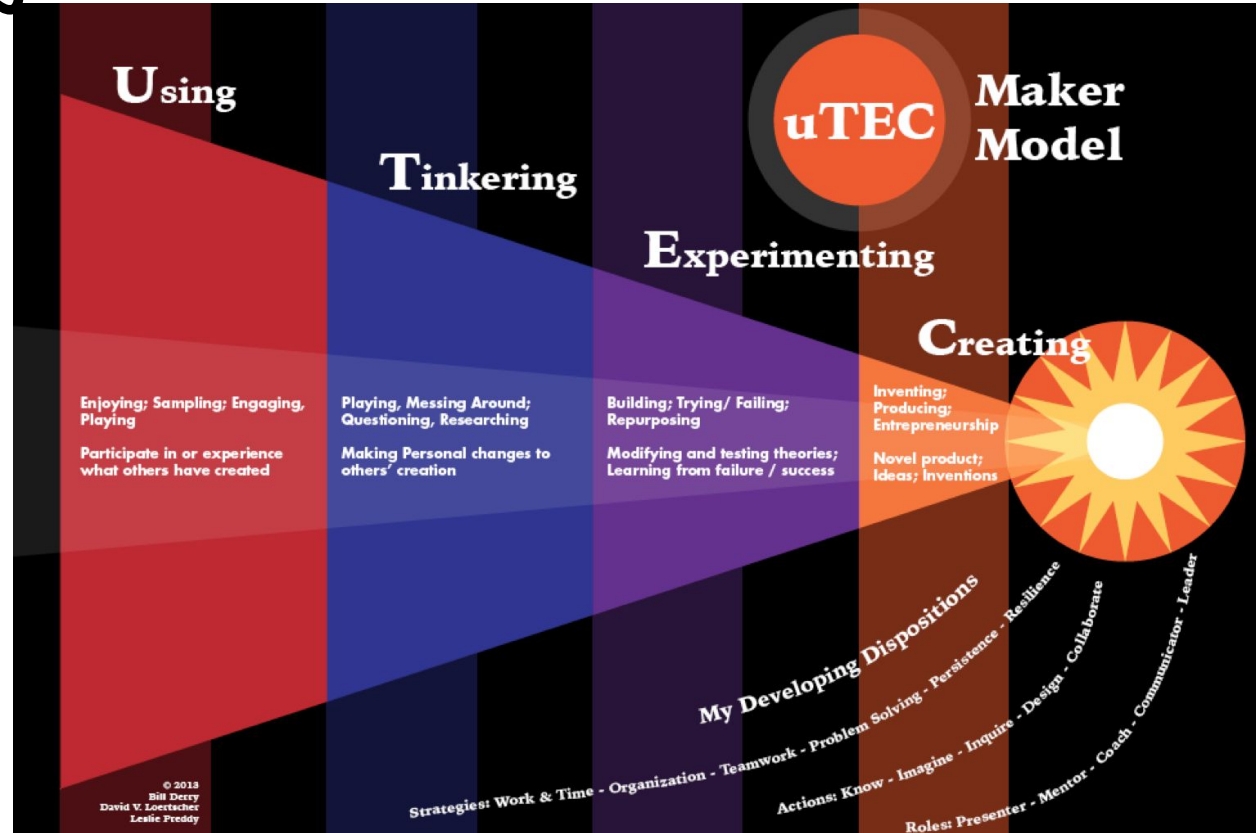


The secret to a successful virtual makerspace, we believe, is not to "build it for them." Rather, if they help build it, they will use it.

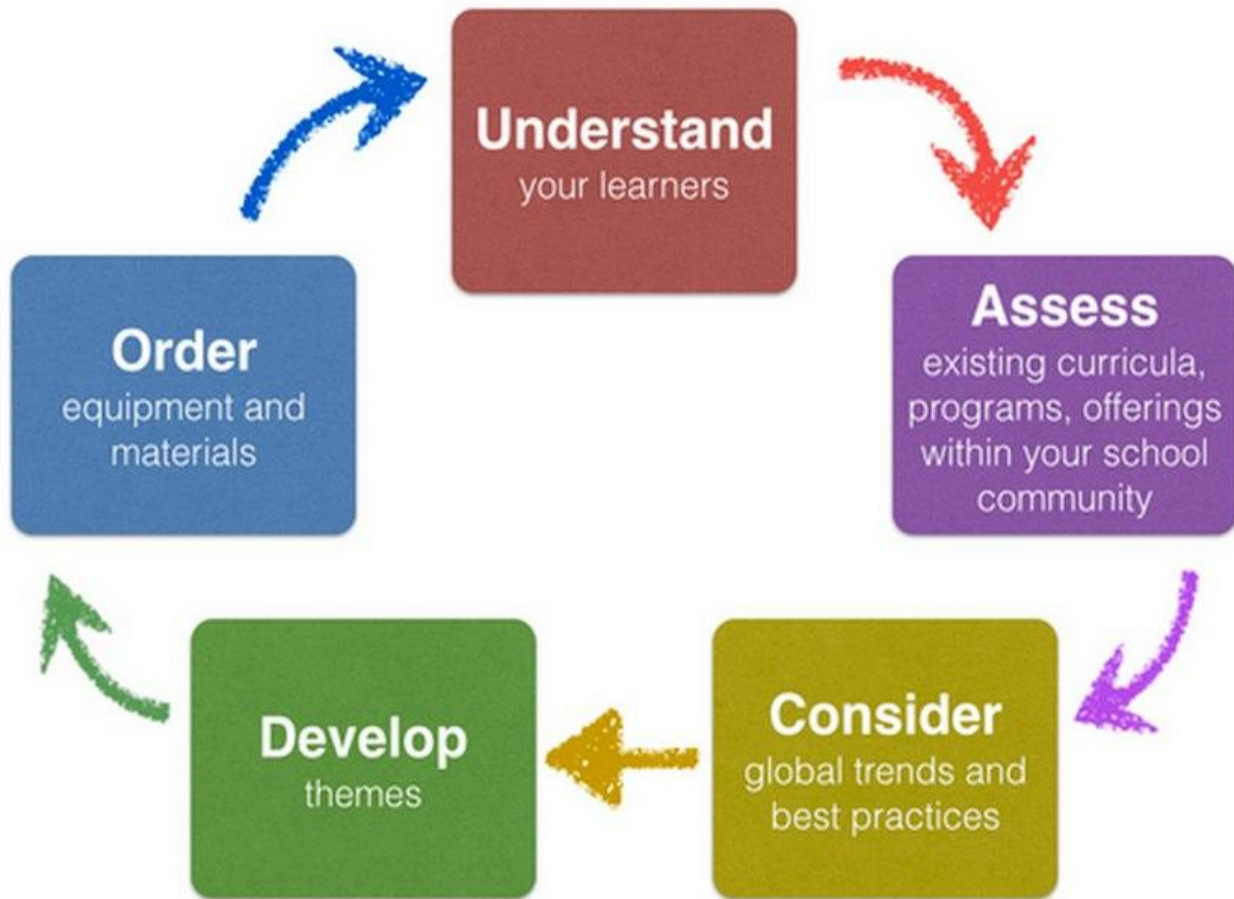
David V. Loertscher - The Virtual Makerspace

Setting the Context for the Virtual Maker

Provide opportunities
that lead students
to....



MAKERSPACE PLANNING





"No two school makerspaces should ever be exactly alike,
because no two school communities are ever exactly alike."


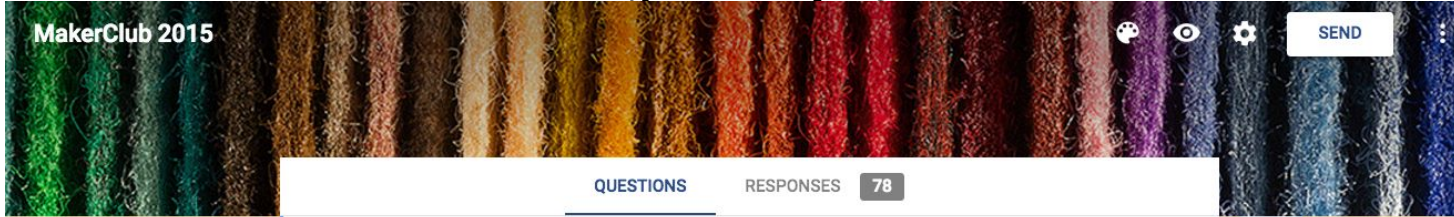
Laura Fleming - Worlds of Learning

Mulcaster's GAFE Virtual Makerspace Experience

- Learning facilitated through board gmail accounts as part of our MakerClub
- Google Sites Platform with embedded Forms, Docs, Slides and Sheets
 - Ss have editing access and add as the year progresses
 - Serves as inspiration; starting and continuing points
 - Organization, Feedback, Sharing and Collaborating



Getting to Know the Learners: 2015 (The Valleys Snr)

MakerClub 2015

QUESTIONS

RESPONSES 78

MakerClub 2015

Form description

What is your name and home room? *


Short answer text

What are you interested in making? Click all that apply.

- ☐ Minecraft building
- ☐ Coding Languages (please specify in other)
- ☐ Knowledge about Raspberry Pi/Arduino
- ☐ Animation with Flash

Organizing the Learning Experience: Google Sites Portal






Valleys Vipers Virtual MakerClub 2015-16

Navigation

- ▼ Welcome to our MakerClub!
 - Questions? Post here.
- 3D Inquiry Design
- ▼ Anime Drawing
 - Anime Drawing Gallery
- ▼ Arduino
 - Arduino Projects
- Balloon Crafting
- ▼ Beading Projects
 - Beading Photo Gallery
- ▼ Cardboard Arcade
 - Cardboard Arcade Projects
- ▼ Coding and Programming
 - What do you want to do in code?
- Duct Tape Projects
- ▼ Finger Knitting and Crocheting
 - Finger Knitting and Crocheting Projects


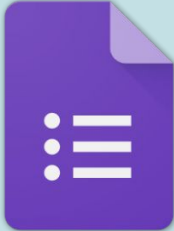
MakerClub Attendance



What is your name and homeroom?

What activity did you work on today?

Never submit passwords through Google Forms.



Organizing our Days...

▶ Makey Makey Projects

▼ Movie Making

▶ Green Screen Movie Making

▼ Parachute Cord Bracelets

Parachute Cord Gallery

▼ Raspberry Pi

▶ Raspberry Pi

▼ Roblox

Roblox Game Gallery

▶ Roblox Game List

▼ Scratch

▶ Scratch Games, Stories and so much more!

▼ Soft Circuits - E-textiles

▶ Soft Circuit Projects

▼ Sphero

[Open MakerClub Attendance](#)

Sign up January 2016

MakerClub Signup Jan 2015

MakerClub Signup Jan 2016 : Sheet1

Anime	Flash Animation	beading	Ex-textiles Sewing	Finger Knitting/Crocheting	Coding	Green Screen
M-	MWF	Bright 6a	Tuesday	Tuesday	MWF	MTWTF
Bianca Villaluz 7A		Momina6G Wed	Arwen 6B			Teams of 3-4
keyanna jones 7F		wed, Labna 7A	Kylie 6E	Brianna brissett 7b	M-Yahya 6A	Team1 on mond
Yahya 6A			Momina 6G		morteza omarzay 6A	
			ne 6E	MTWTF Mava 6D		Gabriel 7D
			B	MTWTF		
			ra 6A	8B		T-
			6B	8B		



A Sample Page..Inspired Curation to Inspired Creation

Valleys Vipers Virtual MakerClub 2015-16

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 - Cardboard Arcade Projects
- ▼ Coding and Programming
 - What do you want to do in code?
- Duct Tape Projects
- ▼ **Finger Knitting and Crocheting**
 - Finger Knitting and Crochet Projects and Ideas
- ▼ Flash/Blender
 - Flash Animation
- Google Cardboard Glasses
- ▼ LEGO
 - LEGO Design Lists
- ▼ Makey Makey

Finger Knitting and Crocheting

How do you Finger Knit?

YouTube Video



How do you Crochet?

YouTube Video



Maker Club

Organizing our Maker Fair

Please take a moment...

Maker Fair Organizaton

Maker Fair Organizaton : Sheet1

Knitters/Crochet	Beading	Sewing	Duct Tape Crafts	Parchute Cord Bracelets	Makey Makey	Green Screen	Knot Making
Library	Library	Library	Library	Library	Library	Library	Library
Finger knitting project?	Sample Bead Projectd				8B	6E	
Snake bookmark?					8B		
6D							
Sphero Race Track							

Gathering Feedback

MakerClub Feedback

Your username (p0046245@pdsb.net) will be recorded when you submit this form. Not you? [Sign out](#)

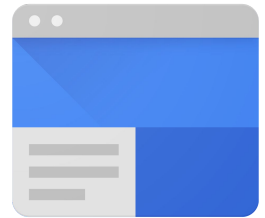
* Required

What do you like about our Maker Club? *

- ☐ We can create our own sign up schedule
- ☐ There are activities we want to do
- ☐ There are a variety of different activities
- ☐ We can make whatever we want
- ☐ Other:

What do you like about our virtual space?

- nice spot where all our information is
- can use at school and home
- we can make, create and innovate even at a website
- everyone can add; “we have control over it”
- we can keep consistant so everyone can become a “master”
- simple, easy to use
- keeps us organized
- shows us new things



New school...new beginnings..2016/17



Hillside Robotics

 Search this site[Welcome!](#)[Team Members and Roles](#)[Robotics Research](#)[Virtual Arduino](#)[Hands on Arduino](#)[Robot Building](#)[Arduino Robot Codes](#)[Team Pages and Notes](#)[Robotics Badges](#)[Welcome!](#) >

Team Members and Roles

Robotics Roles

Roles:

Researcher:

Badging with GAFE

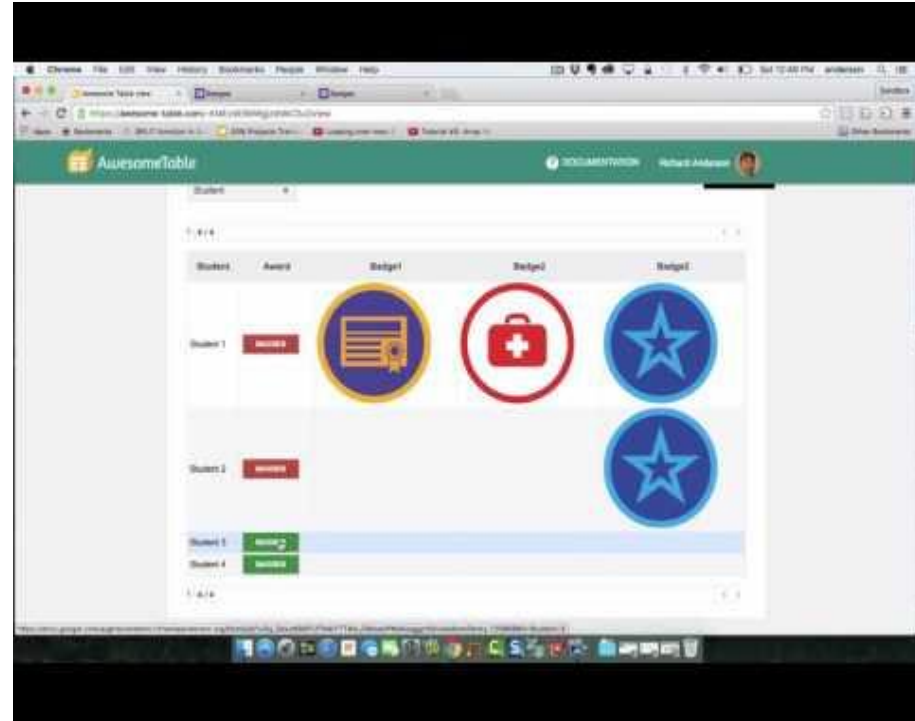
Create and Embed into your Google Site



In addition, check out this post by [Alice Keeler!](#)

Badging with GAFE

DIGITAL BADGE BOARDS WITH GOOGLE DOCS



In addition, check out this post by [Alice Keeler](#)!



Hillside Sew-Greats!

Welcome Hillside Sew-Greats!

This is your place to develop and share projects you'd like to create!

You will need to assemble Sew-Great teams.

Each team will come up with a project and learn how to make it. You will create a page on this site to show others how to make and create your design!

You will teach others how to make your project. Teams will be assigned a month where their project will be highlighted.

Additionally, you will create a badge using Google Draw that you will reward your peers once they have completed your project!



Where to next?

Only their
imagination will
tell....