Today's Modern Learning Environment:

more than a new coat of paint

Ginger Lewman

Edupreneur & SiloKiller

Hutchinson Kansas

ESSDACK

Our learners. Their future.

Ginger Lewman

Project Based Learning
Maker Education
Technology Integration
Gifted & HighAbility Learners

www.GingerLewman.org
www.LifePracticePBL.org
www.STEAMmakerCamp.org

@GingerLewman

ESSDACK
Our learners. Their future.
Hutchinson Kansas

Today's Modern Learning Environment:

more than a new coat of paint

...a story

Don't Stay In School

Phillip Schlechty
www.schlechtycenter.org/

Response to School-Related Tasks

Full Engagement

HIGH attention
HIGH commitment

Strategic Compliance

High attention
Low commitment

Ritual Compliance

Low attention
Low commitment

Retreatism

NO attention
Low commitment

Rebellion

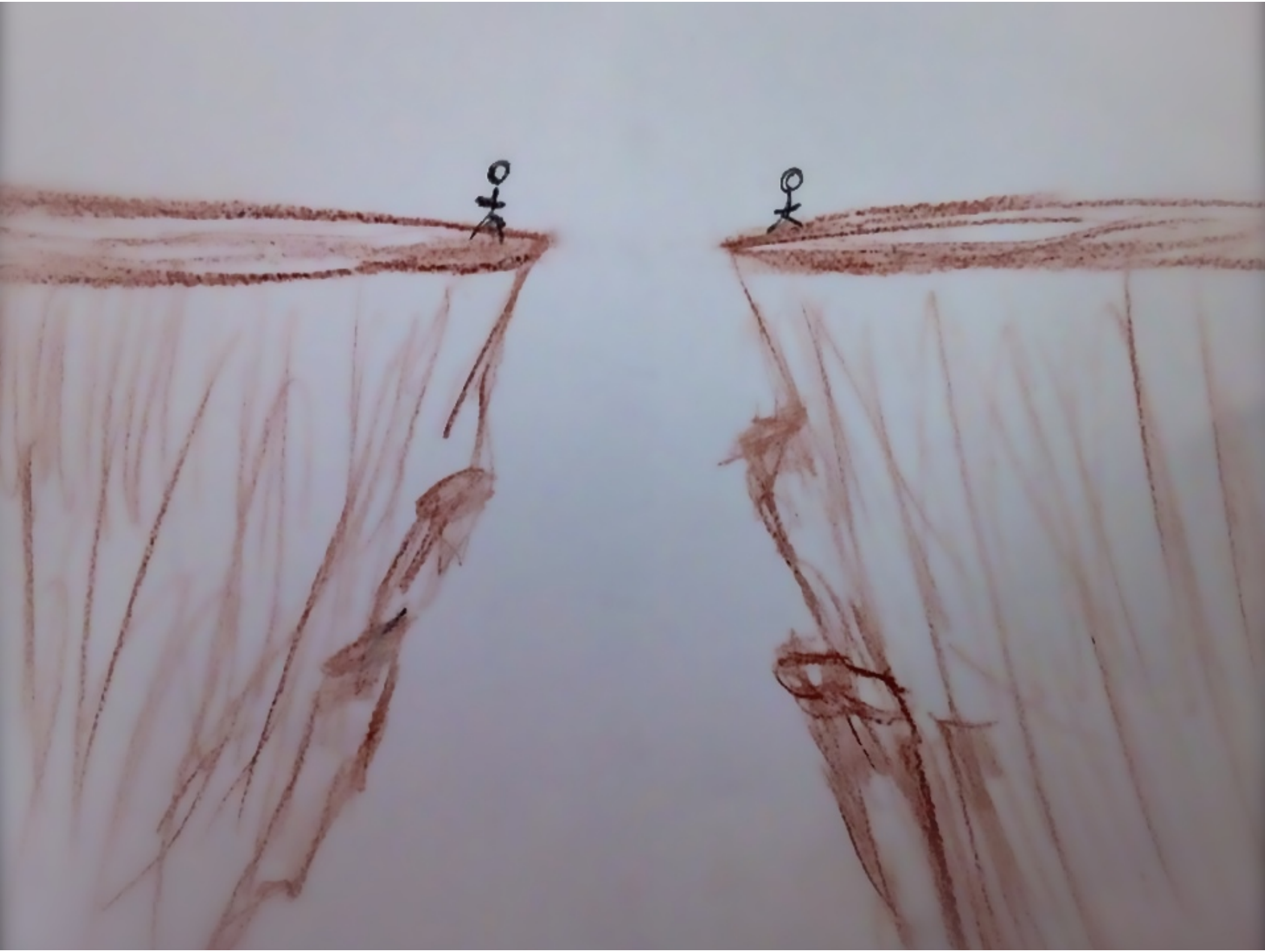
NO attention
NO commitment

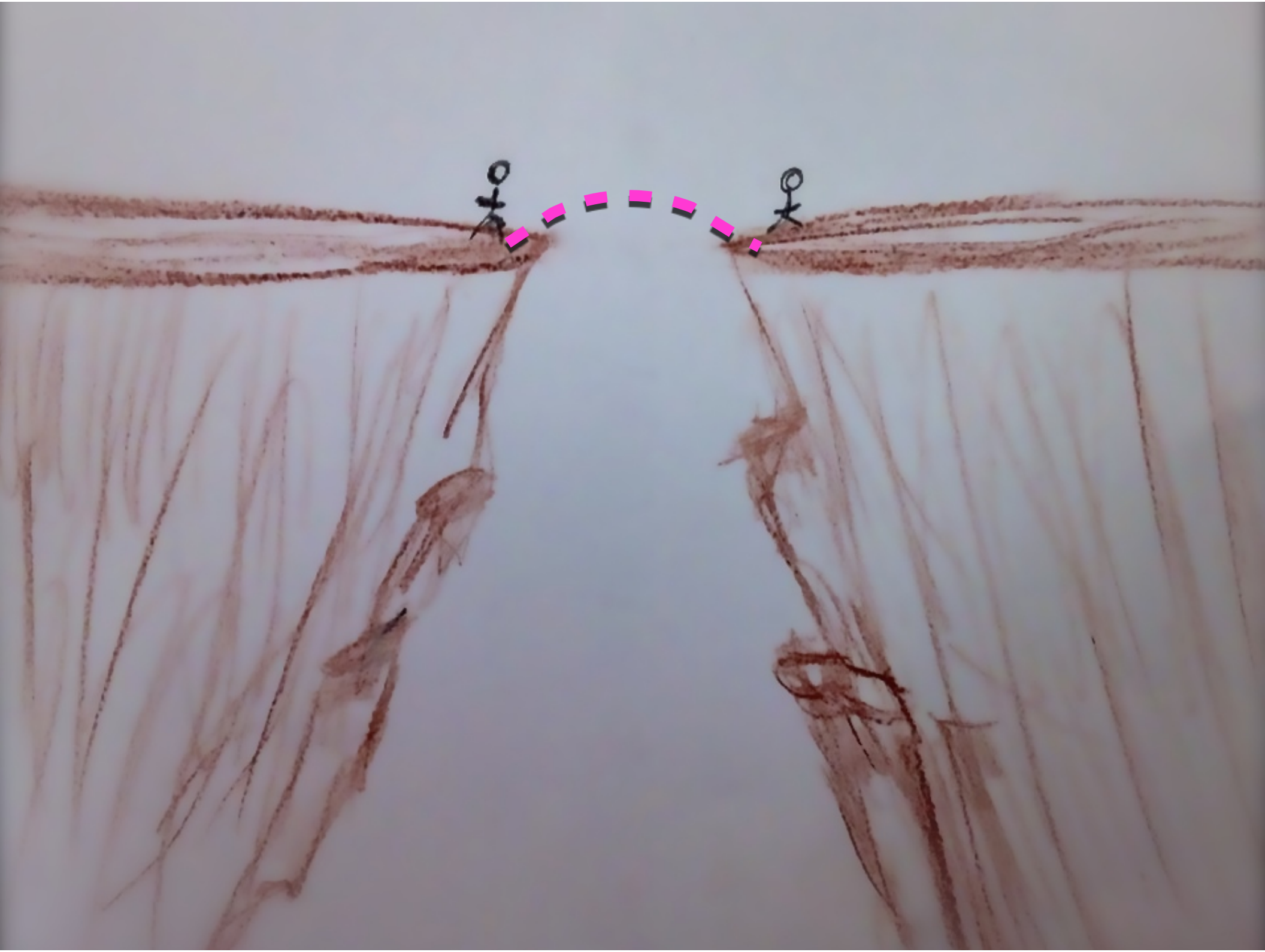
adapted by Ginger Lewman, ESSDACK

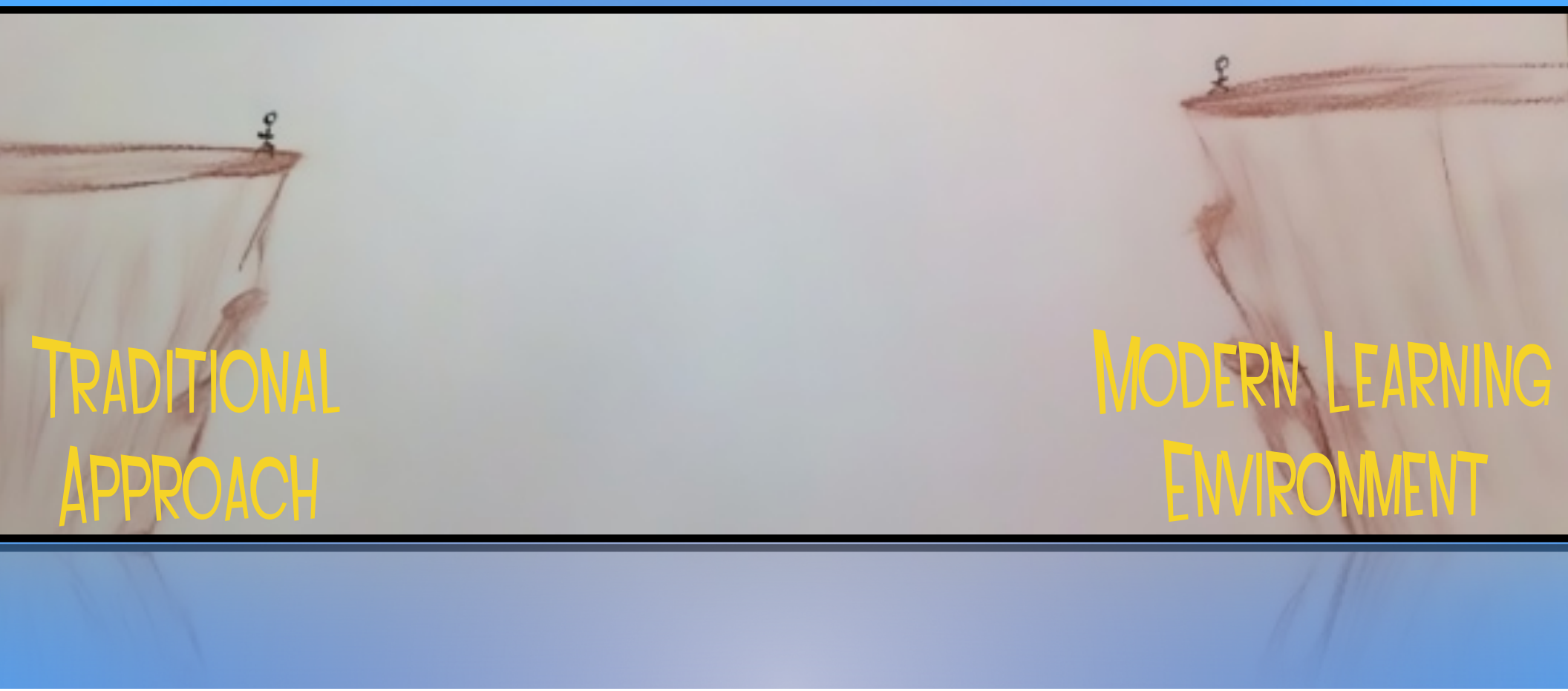
There is a **zero** percent chance that children will learn from work they don't do.

Phil Schlechty

Bridging the Innovation Gap

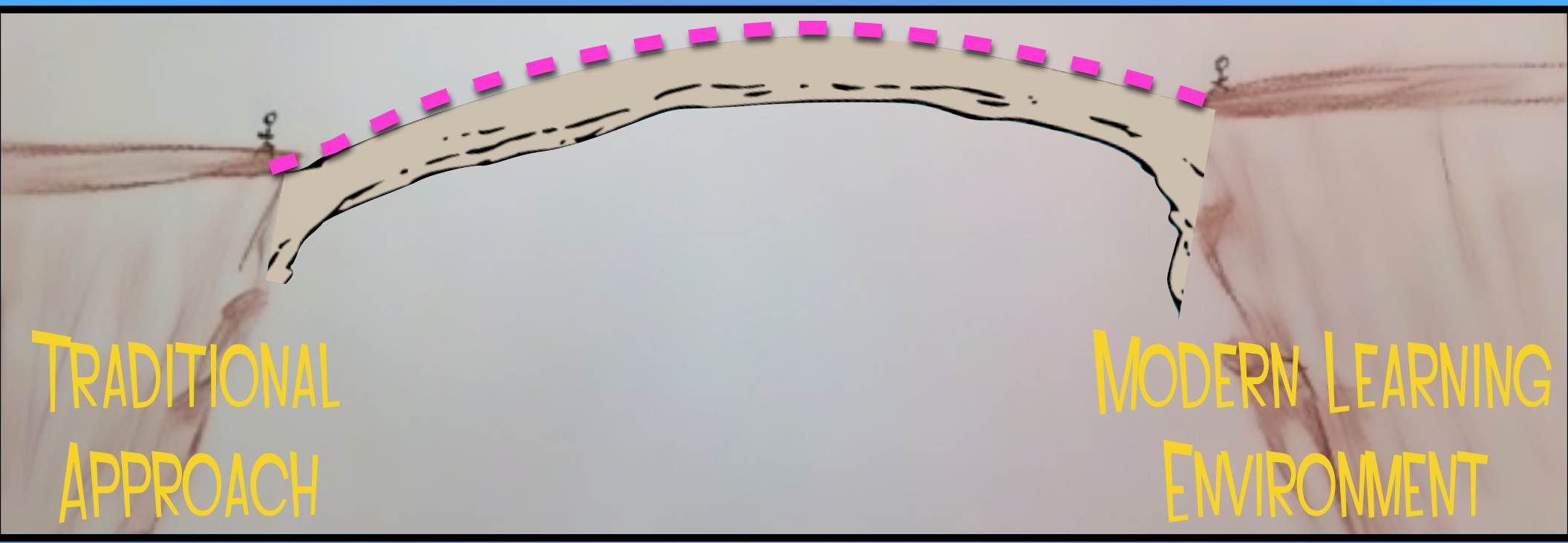





Traditional Approach
Modern Learning Environment

!!!
Jump!
Jump!
Traditional Approach
Modern Learning Environment

Traditional Approach
Modern Learning Environment


Traditional Approach
Modern Learning Environment

5 pieces of a

Modern Learning Environment

1. Open Education Resources
2. Flipped Classrooms
3. Project Based Learning
4. MakerMovement/ STEAMmaker
5. …

Open Education Resources

http://goo.gl/z15B8C

What is OER

What is OER?

https://goo.gl/umknYg

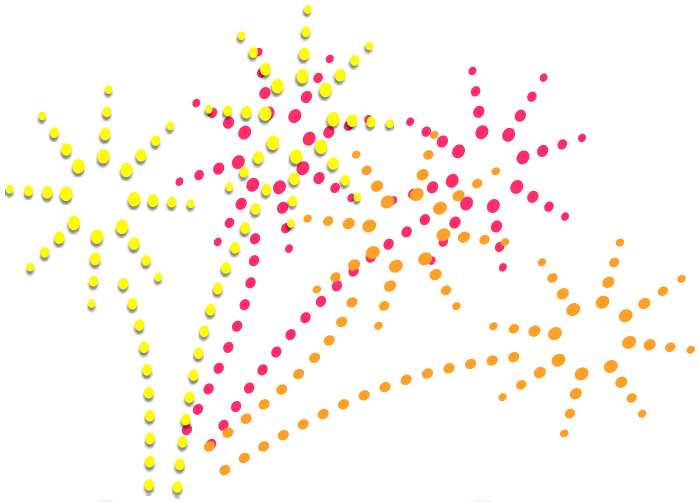
text books
online courses
simulations
literature
interventions
videos
and more

Karen Fasimpaur

Open Education Resources

http://goo.gl/z15B8C

text books
online courses
simulations
literature
interventions
videos
and more



social media!

Karen Fasimpaur

Open Education Resources

http://goo.gl/z15B8C

Why Open Education Resources?

1) **Cost reduction** of information in classrooms
2) **Engagement** and **Empowerment** of learners
3) Improves **edu opportunities** for teachers and learners
4) Access to the best information anywhere, any time, **regardless of zip code**

Open Education Resources

http://goo.gl/z15B8C

OER COMMONS
OPEN EDUCATIONAL RESOURCES

ABCYa.com

1) OERcommons.org
2) e-learningforkids.org
3) en.childrenslibrary.org
4) wonderopolis.org
5) www.abcya.com

e-learning for kids
Founding Dreams

Where the Wonders of Learning Never Cease
WONDEROPOLIS®

Open Education Resources

Discussion Point

What would we need to be true

to shift toward OER?

Open Education Resources

http://goo.gl/z15B8C

Questions Strong Leaders Ask About Open Education Resources

1) How do we ensure adequate access (bandwidth/hardware) to OER?

2) How do we ensure educators are confident to leverage the full benefits of OER?

Open Education Resources

http://goo.gl/z15B8C

Keeping tools of communication out of the hands of learners isn't called safety.
It's called isolation.
~ Ginger Lewman

BUT THAT'S JUST THE START...

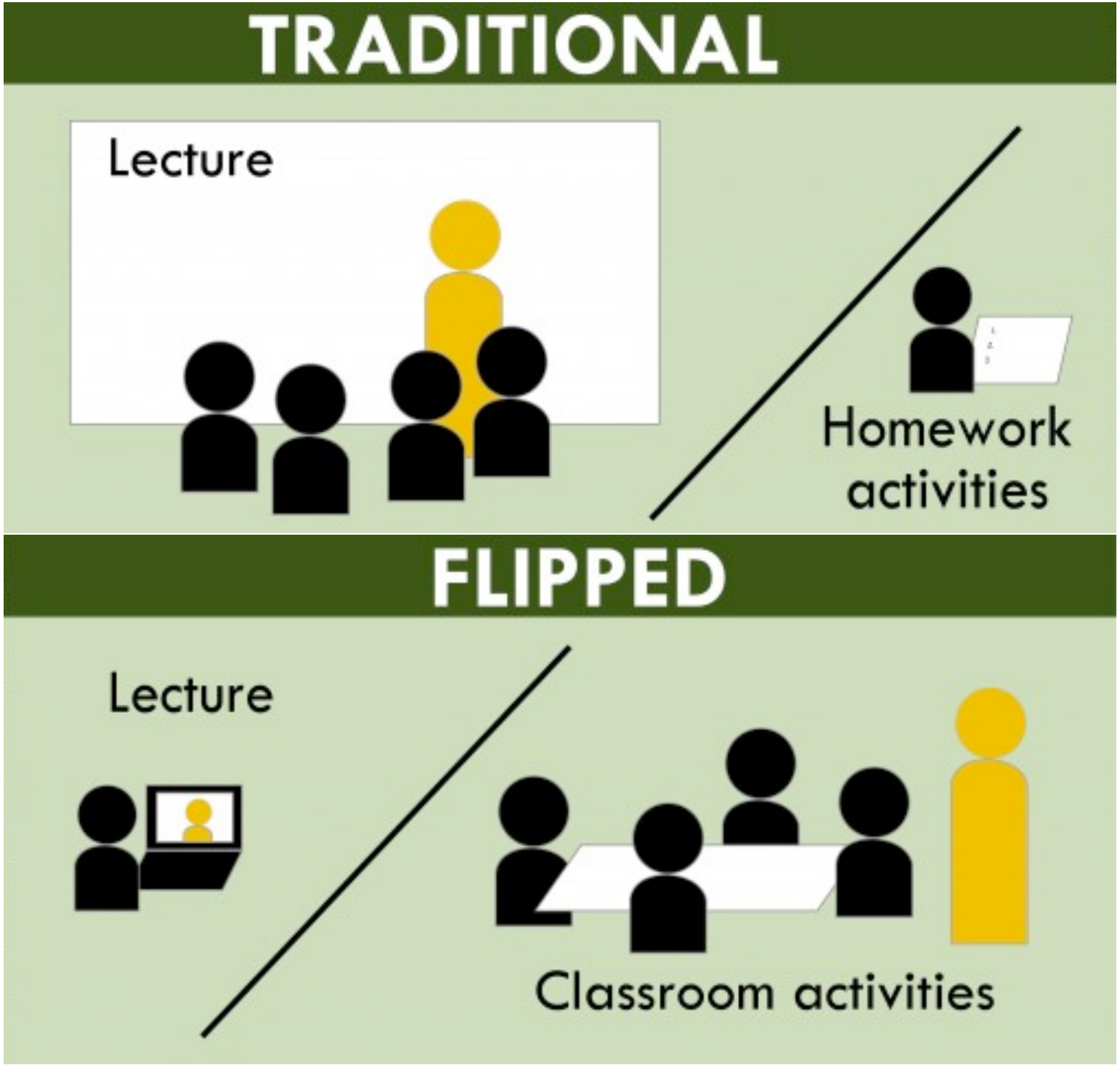
Now that we have access to information,

NOW WHAT?

Flipped Classrooms

Great Flipped resources

goo.gl/jTdy8j



Flipping the Classroom. (n.d.). Retrieved December 1, 2014, from http://www.washington.edu/teaching/teaching-resources/engaging-students-in-learning/flipping-the-classroom/

Flipping, Elementary!

1) **TEAM-TEACH WITH YOURSELF.**
2) Make your direct instruction video one station.
3) **WSQ** — What/Where, Summarize, Question
4) Flip only once every couple of weeks.

Flipped

Flipped

Great Flipped resources

goo.gl/9FVwge

Questions Strong Leaders Ask About Flipped Classrooms

1) How will we ensure all kids have the opportunity to learn with the videos?

2) How will we ensure educators are ready for “learning time” to look/sound different?

Flipped

Great Flipped resources
goo.gl/jTdy8j

Discussion Point

What is your hunch about Flipped Classrooms?

Flipped

Flipped

Great Flipped resources

goo.gl/9FVwge

Passions & Personal Interests

are

which ignite

deeper

learning

Project Based Learning

Not the same thing as “doing projects.”

www.LifePracticePBL.org

bie.org

edutopia.org/

"Doing Projects"

Vs

Project Based Learning

1. Driving Question or Exciting Challenge

2. A Need to Know

3. Research & Think

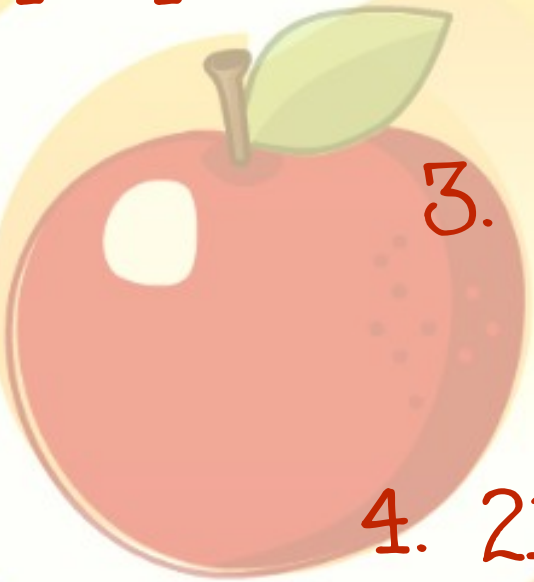
4. 21st Century Skills

5. Student Choice & Voice

6. Soft & Hard Deadlines

7. High-Stakes Presentations

8. Celebration & Post-project wrap-up



2014 Ginger Lewman, ESSDACK
www.GingerLewman.org

1. Driving Question & Challenge
Organizing/Planning
2. A Need to Know
Prioritizing
3. Inquiry & Innovation
Research,
Organization,
TimeManagement
4. 21st Century Skills
Collaboration
Productivity
Processing
Thinking/
Learning
5. Student Choice & Voice
Persistence,
TimeManagement,
Evaluation
6. Craft & Hard Deadlines
Evaluation,
Collaboration
7. Authentic Presentations
Publishing,
Presenting
8. Celebration & Post Project Wrap-up
www.LifePracticePBL.org

DRIVING QUESTIONS

SS What was the role and strategy of the navy for both the North and South, starting with the Trent Affair? Did the naval blockade affect the outcome of the war? What was the role of the Navy along the Mississippi River? What were naval (and other) technological innovations created during this war? How did other nations get involved? What covert spy operations affected the outcome of the Civil War? Why was Charleston Harbor selected for the attack?

Sci Why would the crew have a candle lit in the Hunley? Explain the effects of the lack of oxygen on the human body. Explain water displacement and how manned iron submarines were able to rise and lower in water? How do/did explosives work under water? What are the challenges of raising a wreck of this age?

M In a vessel the size of the HL Hunley, how much air is available in terms of cubic feet and in terms of time, based on the nervous breathing of its crew? Figure the speed at which this ship would have to travel in order to deploy and retreat from from the Housatonic? Compare the Hunley's hydrodynamics to modern-day submarines.

Rdg Read Historical fiction (navy related or not); Research primary documents; Listen to "Raising the Hunley" or other related non-fiction as students are working

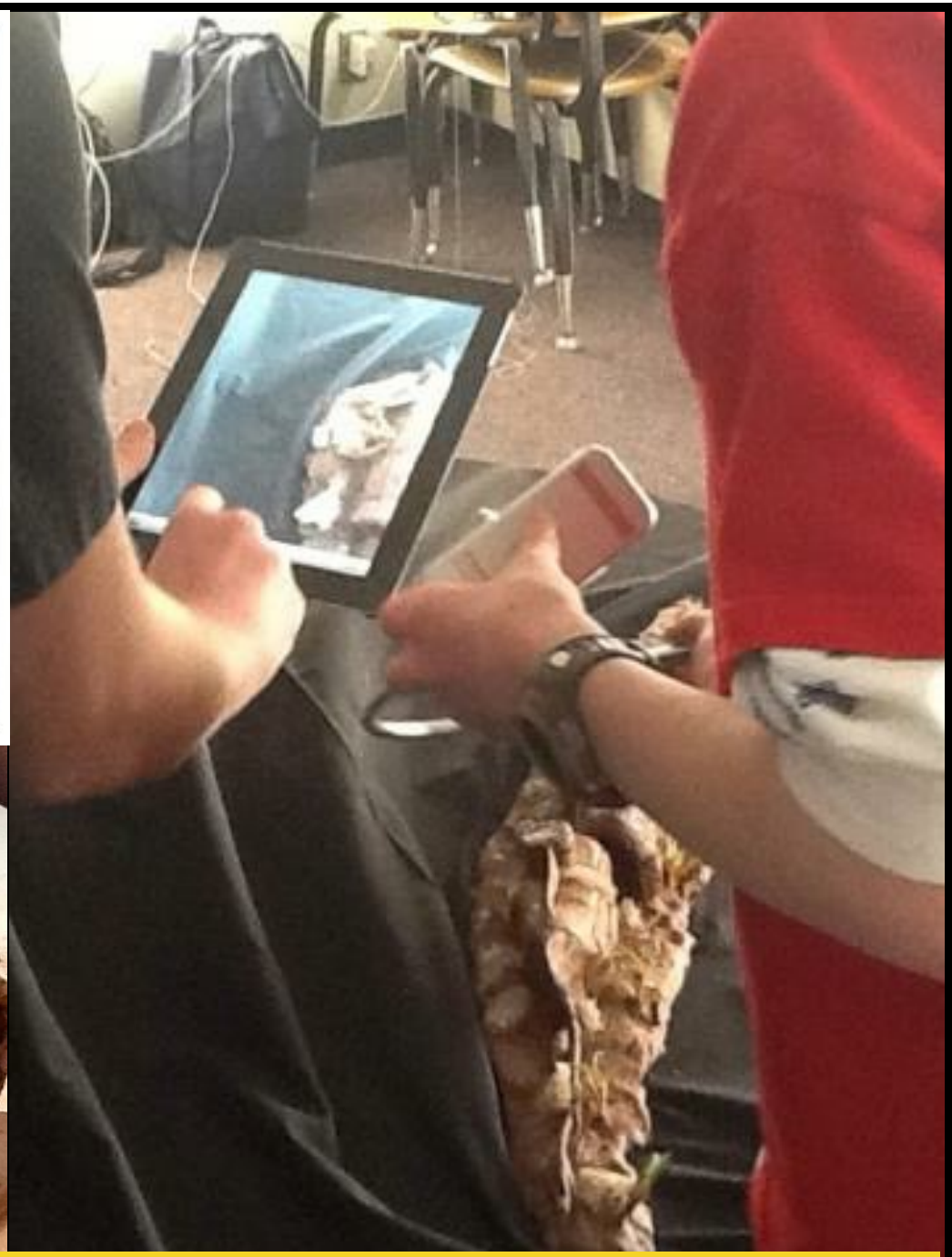
Wri Students write a script for a digital (or analog) story, historical or historical fiction. This can be a radio play, reader's theatre, or a series of podcasts. Create a display for your school or local library or museum. Conduct interviews with modern-day submariners.

© 2011 essdack.org

THE SOUTH'S CIVIL WAR SUBMARINE

Tell the story of the Confederate Ship, H.L. Hunley

StoryTellers Set 6



LifePracticePBL.org

camoflauge clothes
yellow, tan, brown
or
ight pants
shoes SAVE
ed hat
ack passport
acket
PASSPORT
6
Packing List
- walkie-talkie
- map
- first aid kit
- sunscreen
- water bottle
- flashlight SAVE
- umbrella
- watch
- binoculars
- sunglasses SAVE
- camera
- compass
Clothes
- t-shirts
- shorts or lightweight pants
- tennis shoes SAVE
- brimmed hat
- backpack passport
- light jacket
- scarf
socks
SAVE
camoflauge clothes
yellow, tan, brown
We are on a learning safari!
Ask our experts what they've learned.
ARCTIC OCEAN
EUROPE
ASIA
NORTH AMERICA
ATLANTIC OCEAN
PACIFIC OCEAN
SOUTH AMERICA
INDIAN OCEAN
AUSTRALIA
ANTARCTICA

Need to know?
Where could we find it?

THE BEST HANDS-ON
CLASSROOMS
HAVE GREAT
HANDS-OFF
TEACHERS.
WWW.GINGERLEWMAN.ORG

Why Project Based Learning?

1) Students begin to take **responsibility** for learning because their **voice/choice** are valued.
2) **Integration** and **real-world application** of **content** and **skills**
3) Students' **individual** needs are the root of success.
4) **Collaboration** and **community** is essential.

www.LifePracticePBL.org
bie.org
edutopia.org/

Questions Strong Leaders Ask About Project Based Learning

1) How will we ensure that it's PBL and not "doing projects?"
2) How will we internalize that it's not a "strategy" but a way of approaching teaching and learning?
3) In what ways will we best support our community's shift?

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bie.org
edutopia.org/

Discussion Point

How might assumptions about **standards** and **test scores** affect our conversations surrounding PBL?

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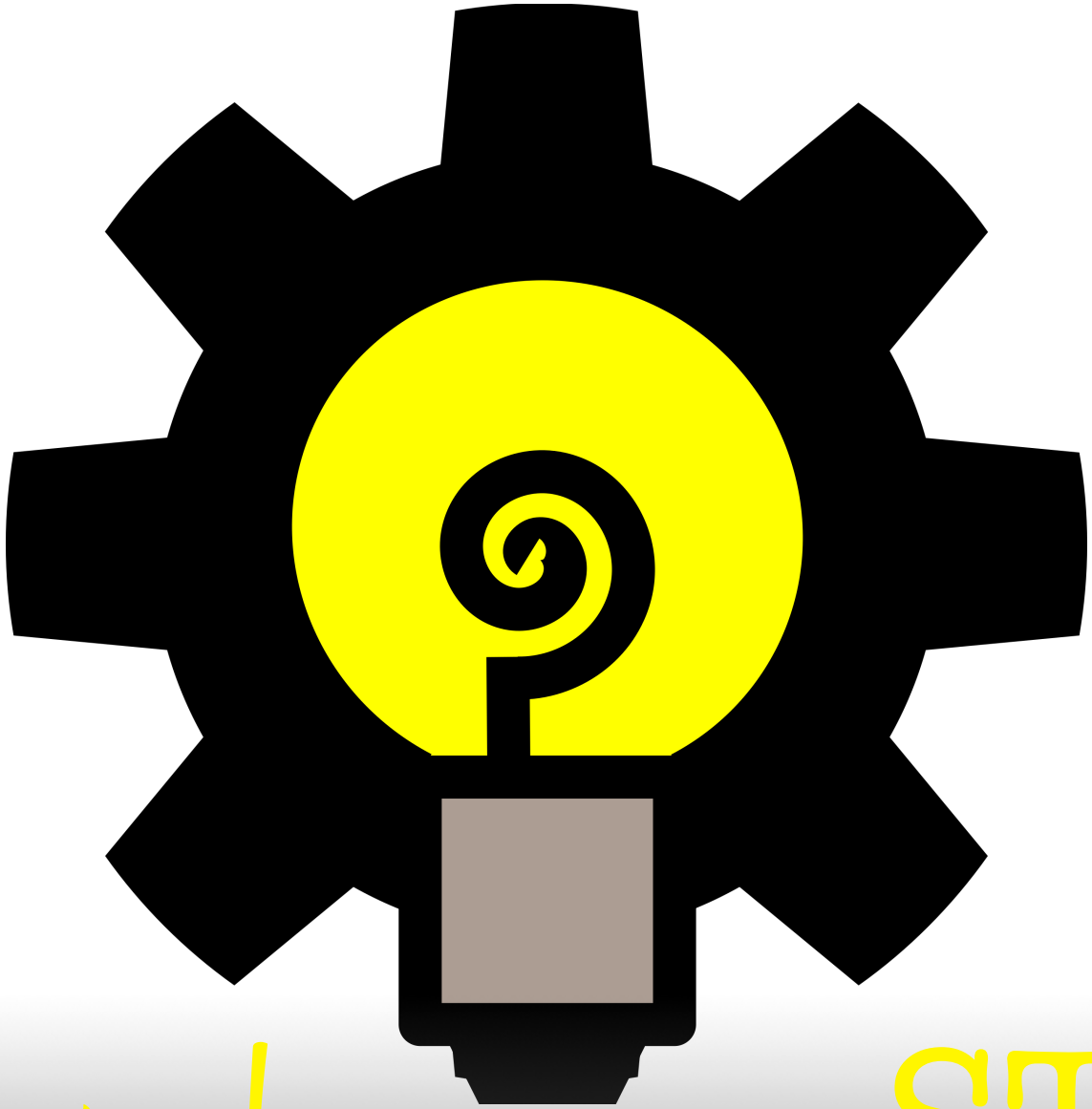
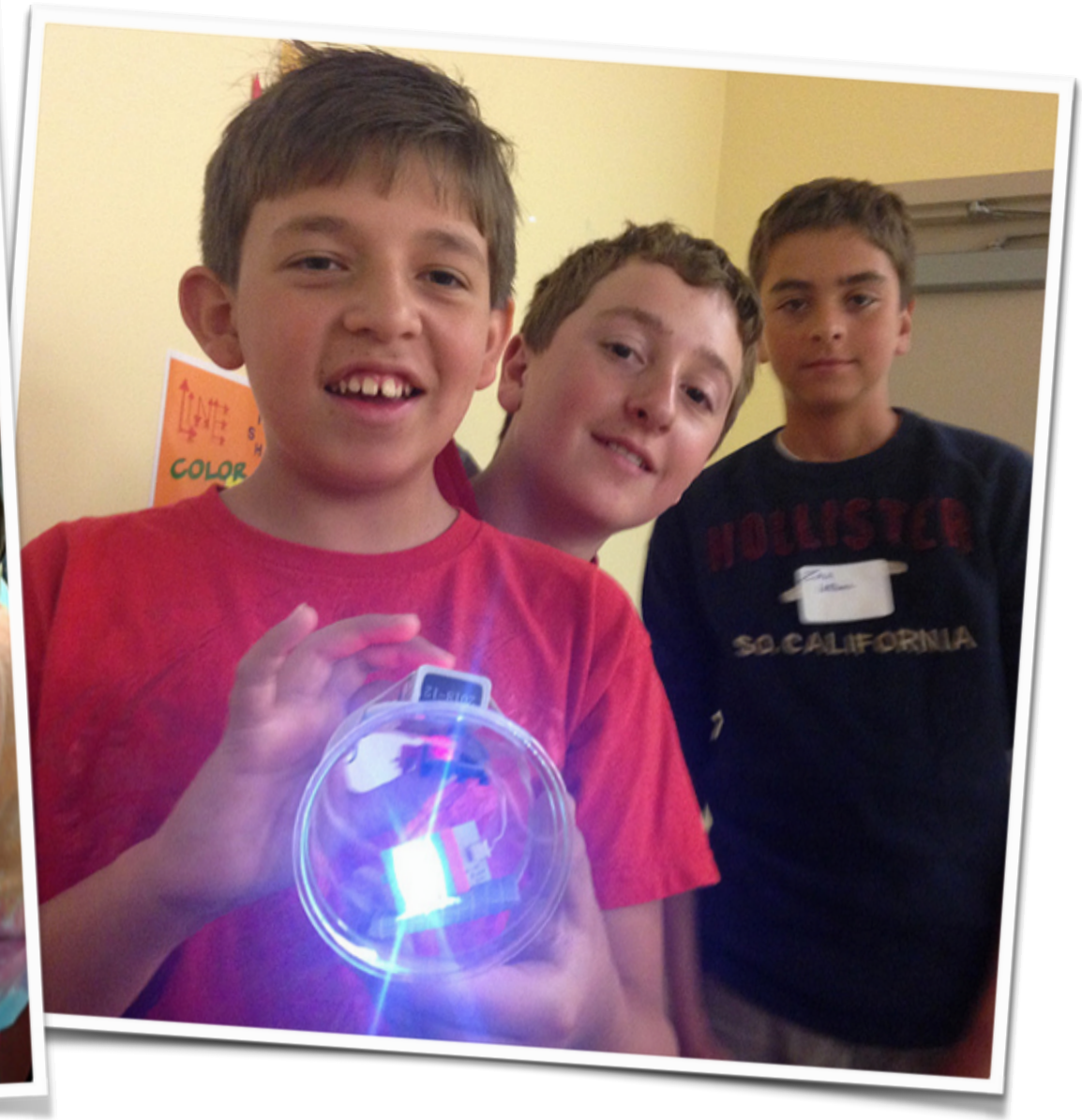
As a teacher, I'm a resource, not THE source.

~ Ginger Lewman



merging classroom STEM
with MakerEducation



STEM to *STEAM* to *Maker*!

Makerspaces, are creative, DIY spaces where people can gather to **create, invent, and learn**.

…they often have **3D printers**, **software**, **electronics**, craft and **hardware** supplies and **tools**, and more!

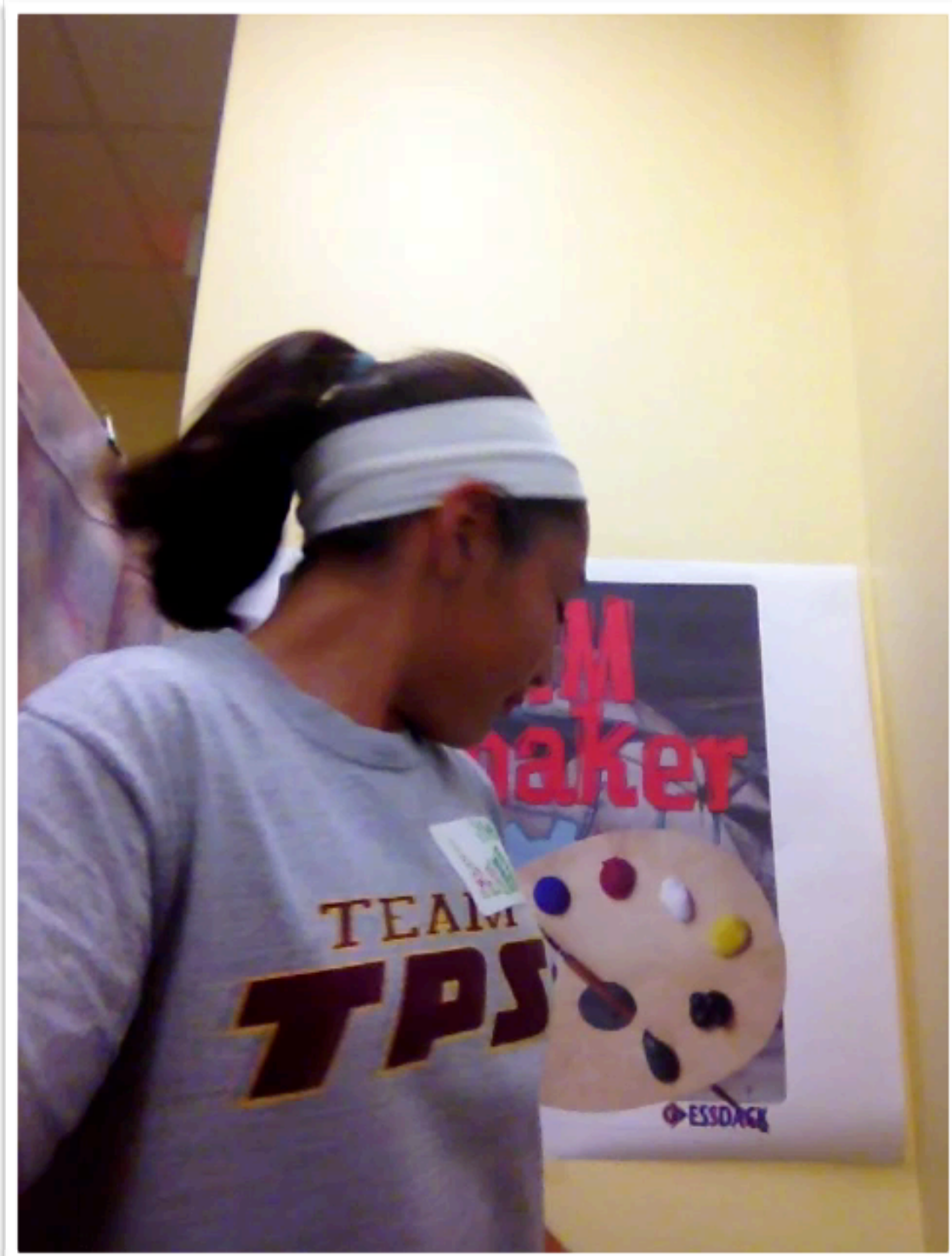
***STEM* to *STEAM* to *Maker*!**

makerspaces as

petri dish

vs

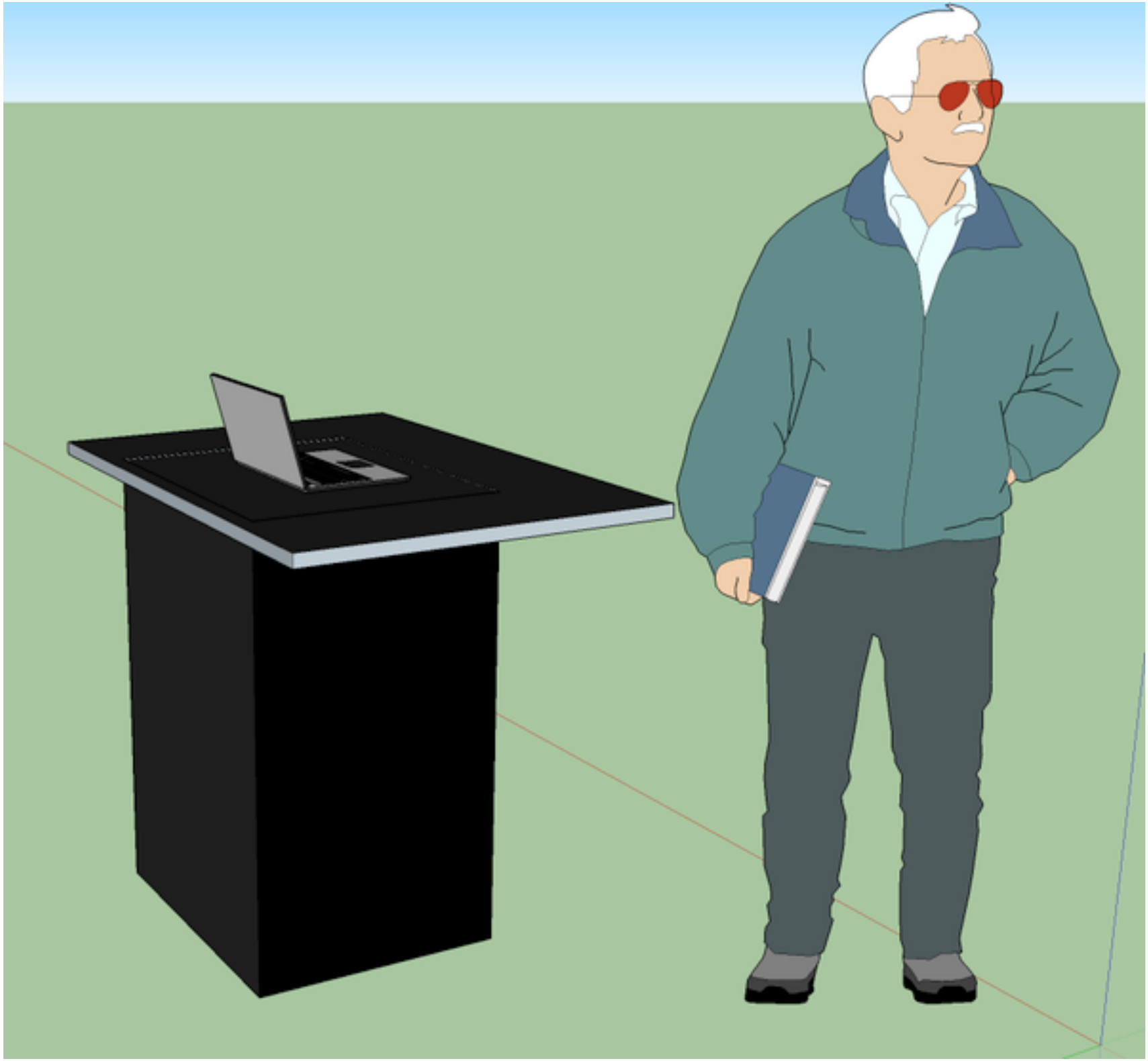
side dish


TEAM
TPS

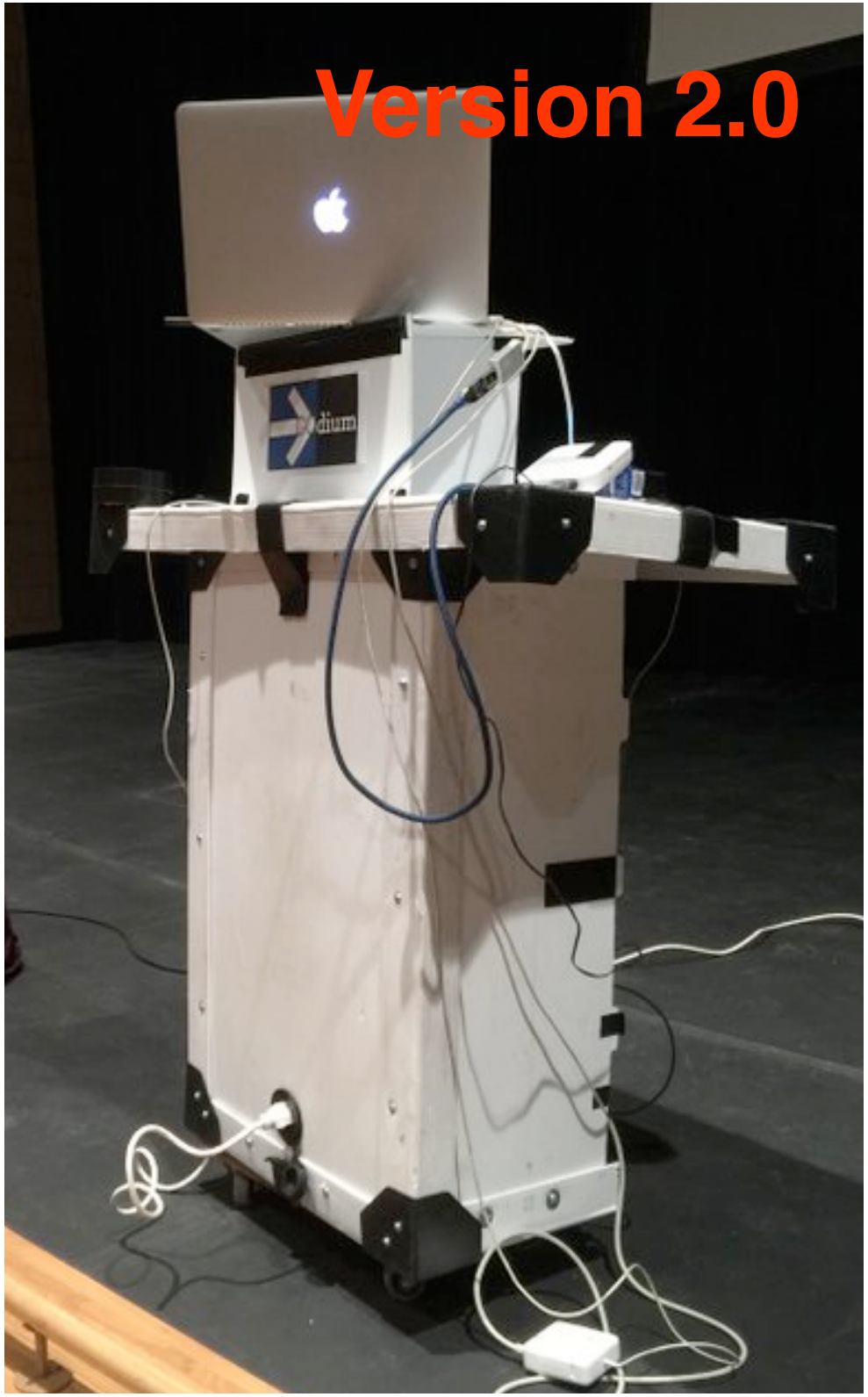
"THE PAIN YOU FEEL FROM FAILURE IS DIRECTLY RELATED TO THE PASSION YOU HAVE FOR WHAT YOU ARE DOING."

~ THURL BAILEY

NCK
TECH



Version 1.0


Version 2.0

DEWALT

There once was a school far out west
where the kids made things were the best
they started selling
the rest is worth telling
they earned bucks to feather their nest.

Kevin Honeycutt

on Twitter:
@GoGodium

April 15th 2016 Projects Due
8/24/15
Electric
Joe
Ginger
Teena L Martin?
Christine Baugh
CR 1:32 1.19
DK 3:06 13min Actual 2:51
Bk 2:03 42 min
1209

Why Maker Movement?

1) Students become **makers**, not just consumers.
2) Kids become **inventors** and **engineers** with a purpose.
3) **Creativity** and **Tinkering** abound!
4) Community **partnerships** emerge.
5) It's the next-level development of **STEM**.

STEAMmaker

MakerEd Resources
makered.org/resources
STEAMmakerCamp.org

5 pieces of a

Modern Learning Environment

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5. …

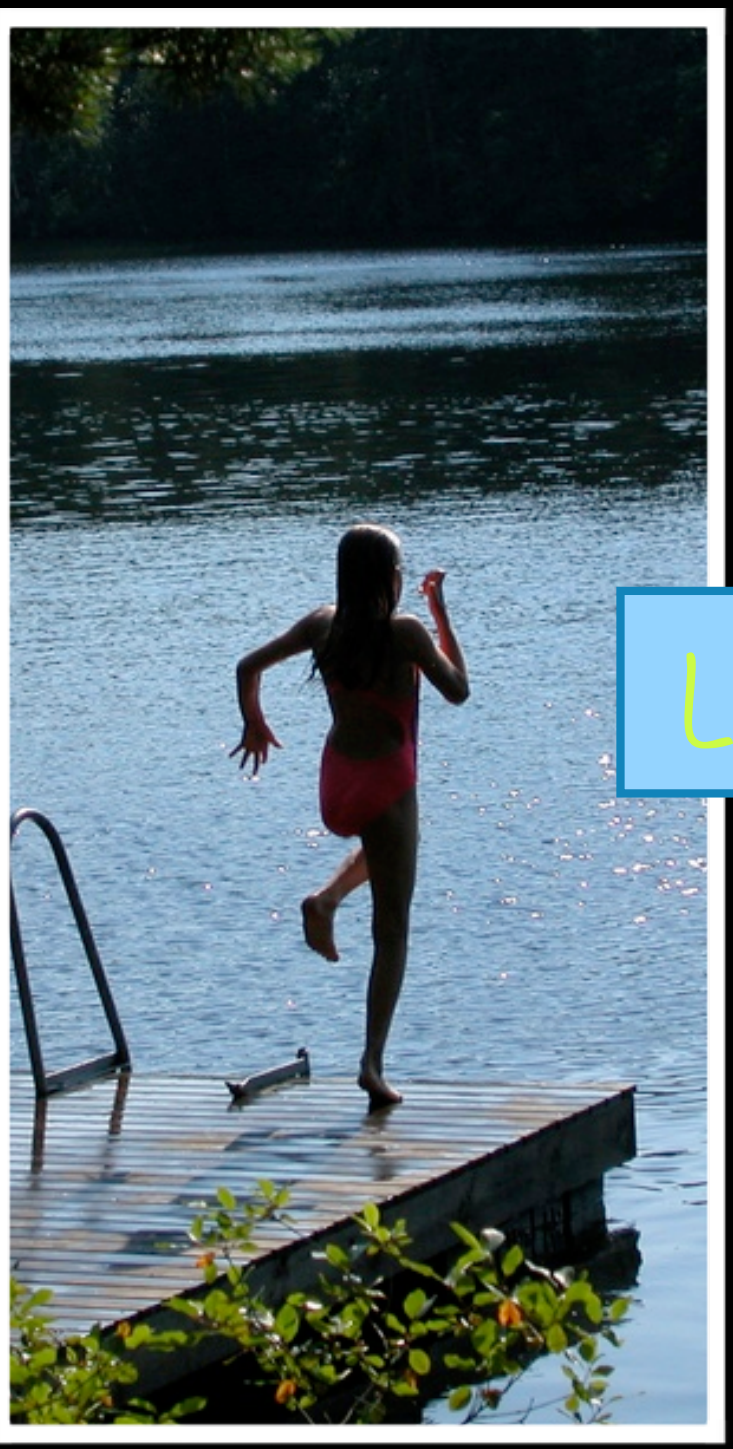
5 pieces of a

Modern Learning Environment

1. ~~Open Education Resources~~
2. ~~Flipped Classrooms~~
3. ~~Project Based Learning~~
4. ~~MakerMovement/ STEAMmaker~~

5. YOU.

Is it a new fence?
or
just a *new coat of paint*?



Levels of Implementing Change

In order to blaze a trail,
you first have to
step out of line.
~ Ginger Lewman
Erik Beck, 9/1/12
goo.gl/5e5UYd

I WANT TO TOP EXPECTATIONS.
I WANT TO BLOW YOU AWAY.

Ginger Lewman

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