
Our Journey Toward Developing a Maker Mindset



Boston Public Schools • Lesley University





Hello
你好

Bonjour
Hallo
Ciao

こんにちは
Hola

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What does
equity in
making look
like to you?



bit.ly/LesleyBPSEquity18

Making in an Education Context

Here is what we notice:

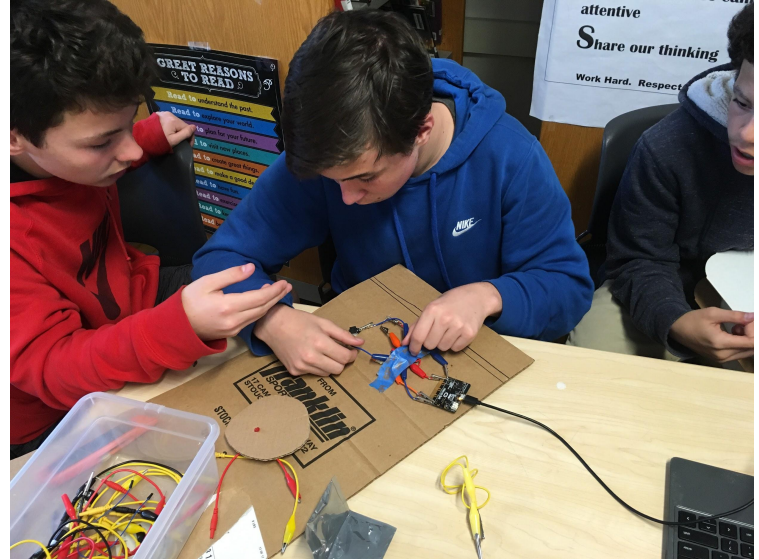
- A new sense of wonder about learning
- An increase in students' ability to describe their thinking (metacognition)
- An increase in communication & collaboration skills
- A positive change in student engagement with a corresponding increase in identity affirmation



Implications for Equity & Access

When making is integrated into the curriculum . . .

All students have an opportunity to engage in the curriculum in a ways that fosters critical thinking, problem-solving, and 21st century competencies.



**Hear the stories of Boston
teachers.**

Van

I Am Poem

*Artifact from the
Lesley/Boston
Maker Mindset
graduate course*

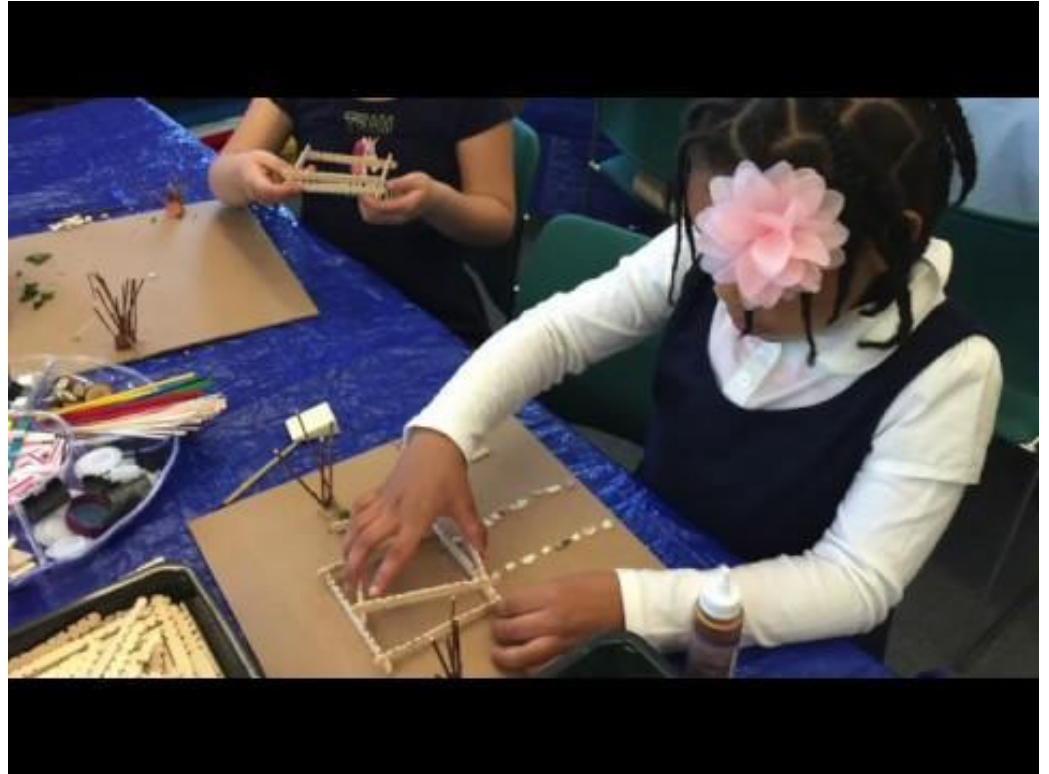


Alicia

Culturally
Responsive

*“Making sure the
environment reflects
back to who the
children are”*

<https://youngsteaminventors.com/>



Morgan

Gender Equity

“The best thing I've witnessed is that both the boys and girls are using these materials together.”



Morgan

Little pig little pig
let me come in

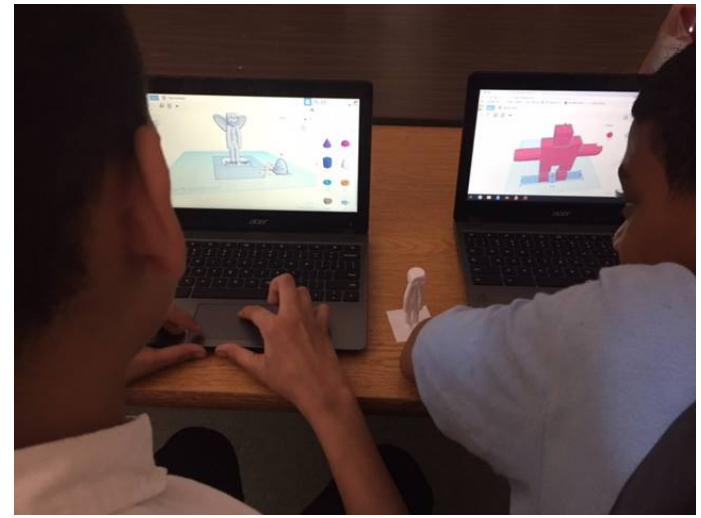
*Not by the hair of my
chinny chin chin*

Then I'll huff and I'll
puff and I'll blow
your house in

*Not by the hair of my
chinny chin chin*



Paula



Basketball 2.0

designed by Kamaiya and Lailanna

Rules

1. The first rule is to try and get the ball into the hoop.
2. If you get the ball in you get a point.
3. No cheating.
4. Each time you make a shot go back further.
5. In order for you to get a point the ball has to stay in the box.
6. You could pick any color to play with.
7. There can only be two people playing at a time

Beehives


Beehives are consisted of hexagonal prismatic cells of beeswax.

Beehive cells
They store their honey in these cells. A hive contains around 100,000 cells. They also store larvae in the cells.

*Bee Fair-
Be kind to bees.
Visit a bee garden.
We all need bees.*

What are beehives made of?
They use a sticky glue-like substance called *propolis* as a way to make the hive stronger. They collect it from tree buds and plant resin. It is used to seal small cracks and gaps in the hive.

What types of Worker bees in a hive also



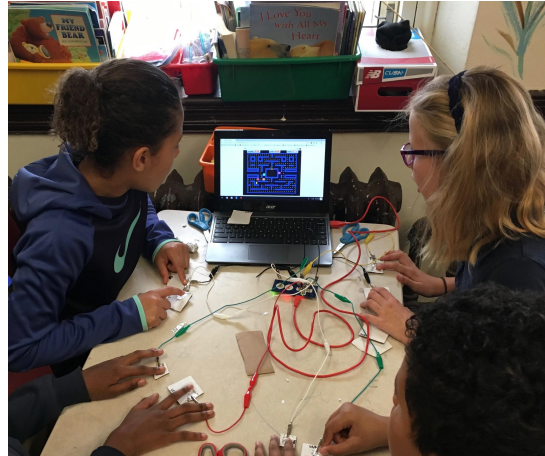
Paula

Inclusivity

“Making is a way for students to demonstrate their learning, to work with their peers and, in a lot of cases, to become leaders.”



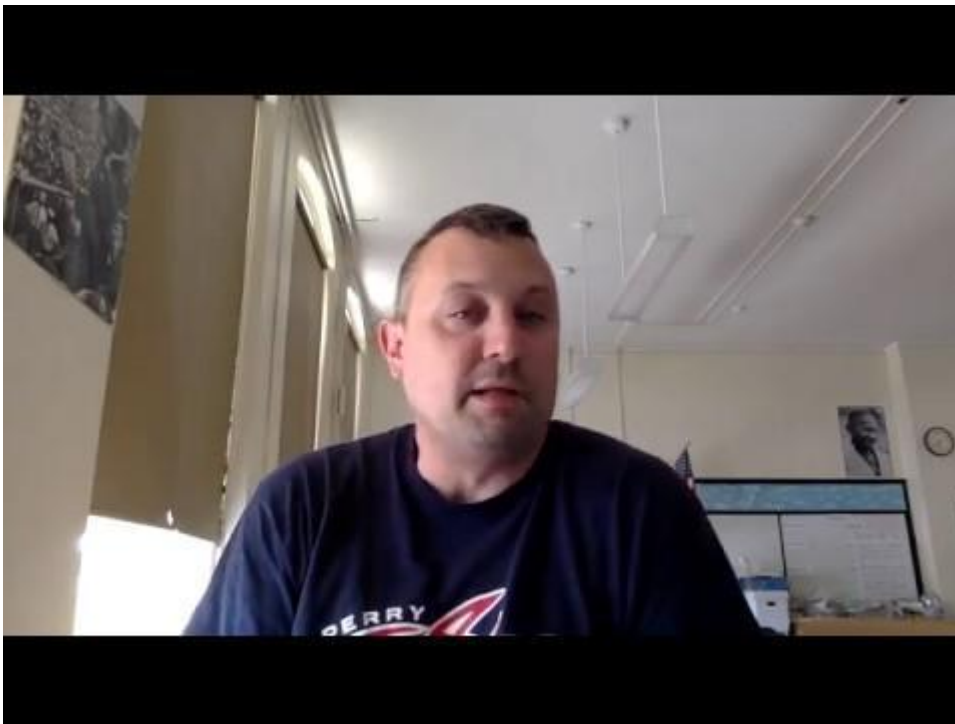
Jeff



Jeff

Supporting Language Learners

*“I have students who
don’t speak English
as a first language
but their ideas just
come to life.”*





Guidelines for Making

Let's Play:
Learning as "Hard Fun"¹

Let's Think Out Loud:
Learning as Social

Let's Ask the Room: Learning
as a Network of Thinkers

LED Lightning Clouds

Digikey (3v Coin Cell Batteries) <https://www.digikey.com/>
Lighthouse LEDs (Blinking LEDs) <https://lighthouseleds.com/>



CAN YOU:

- Make your make a simple circuit with the battery and LED?
 - Is there a right and wrong way to make this circuit work?
How do you know?
 - Can you make a necklace with your simulation of a lightning cloud?
 - Do you have a strategy to help your battery last longer?
-

BPS Technology <https://www.bostonpublicschools.org/technology>

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