Welcome to
Little Learners
BIG
Ideas!

# Gail Lovely

GailLovely@SuddenlyitClicks.com

# Hello!

There is a team of people who will be sharing, supporting and guiding us today...

# Hello!

## I am Gail Lovely

I am here because I love little learners and the people who work with them.

**Fun Fact:**

This is my 40th year in early learning and tech!

# Hello!

## I am Chelsey Lovely

I teach second grade (7-8 year olds) in Pearland Texas, this will be my 10th year teaching

**Fun Fact:**

Gail Lovely is my mother-in-law.

# Hello!

## I am Jessica Miller

I have been in education for 11 years and am currently an assistant principal for a virtual campus.

**Fun Fact:**

This is my first ISTE conference

Susan Brooks-Young

Heidi MacGregor

Marina Umaschi Bers (remote)

Together is powerful

Ask Questions

Please email questions to:
GailLovely@Suddenlyitclicks.com

Where are you NOW on YOUR journey?

Everyone starts in a different place with different tools, resources, goals, priorities, needs, interests and dreams...

# Share via Jamboard

CaSE MaTteRS!

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# TOOL TIME!

## Padlet

Padlet.com

Free/Paid

Examples: https://bit.ly/padletexamples

# TOOL TIME!

## Jamboard

Jamboard.Google.com

Free

Examples: https://bit.ly/jamsforlittles

Tutorials: https://www.suddenlyitclicks.com/tutorials.php

# TOOL TIME!

Bit.ly

https://bitly.com

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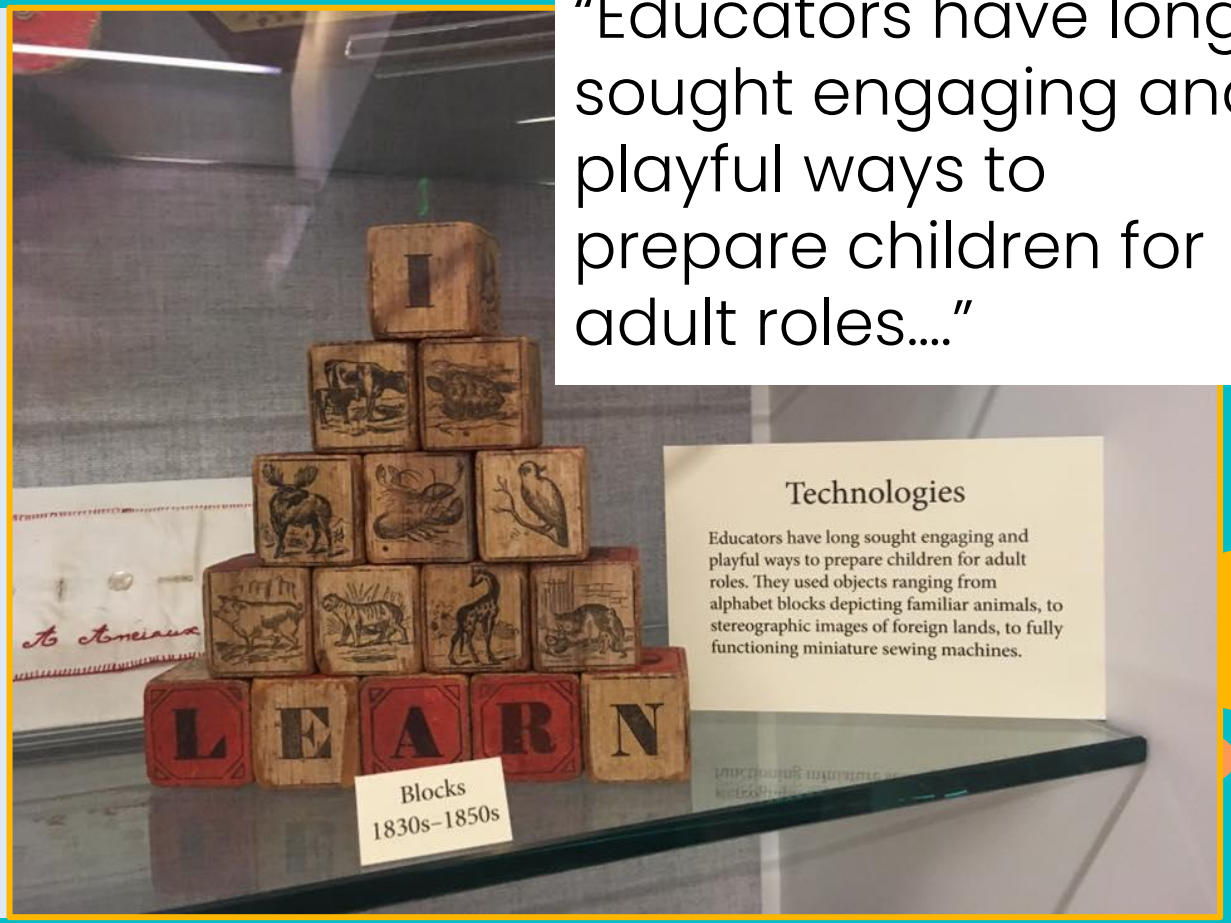
Be aware links are always case sensitive!

# Times have Changed!




"Educators have long sought engaging and playful ways to prepare children for adult roles...."

# Times have Changed!

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Librarian at the Card Files at Senior High School in New Ulm Minnesota ..., 10/1974 by The U.S. National Archives
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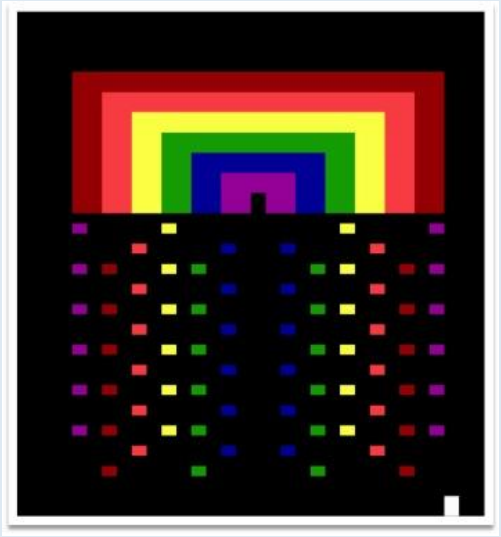
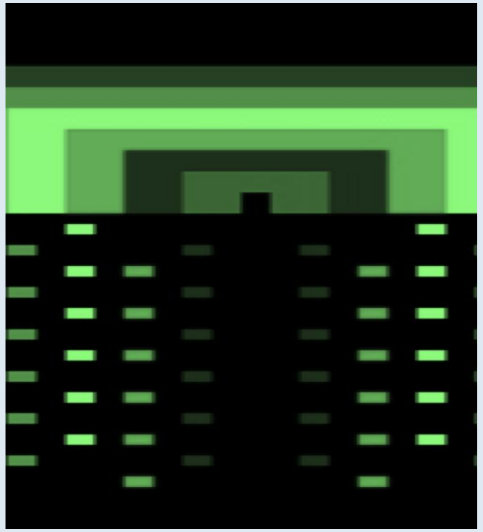
# Times have Changed!

## Juggles Rainbow (1982)

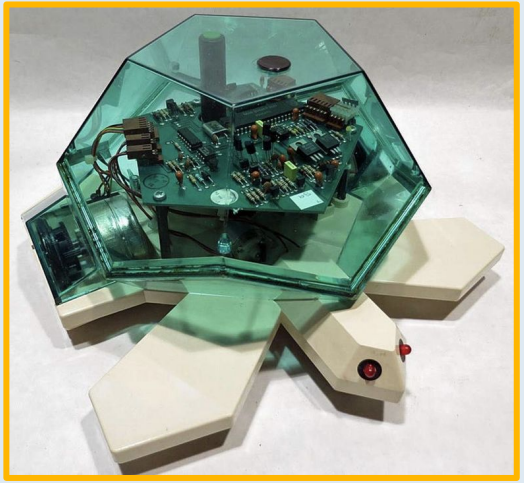




# Times have Changed!

## Interfaces have changed too!

# Times have Changed!



# Times have Changed!

# Young Children and Artificial Intelligence

Dr. Susan Brooks-Young

https://www.sjbrooks-young.org/

Some things stay the same.

Good teachers are always looking for ways to improve their students' learning, engage their minds beyond the trivial, and help them to grow into productive, self-motivated, problem solvers and good human beings.

What is a robot?

What can robots do?

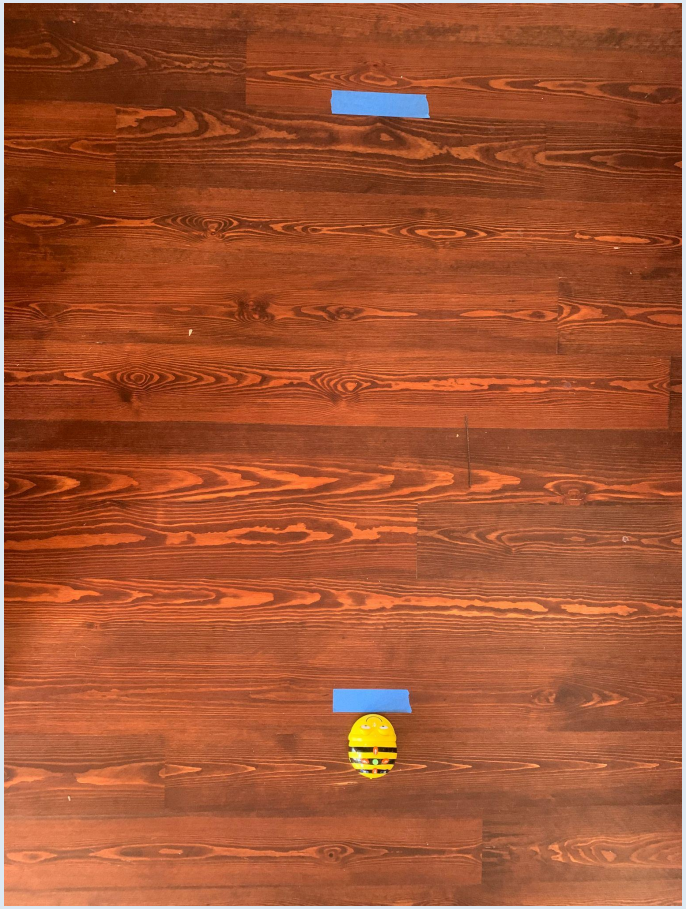
What are things robots cannot do?

Each Table had one Robot.
We explored the robot and then worked with the robot.

Each person -

- ❑ Hold the BeeBot
- ❑ Look at the BeeBot
- ❑ Say/Tell/Share ONE thing you noticed
- ❑ No repeating others' noticings

# Robot Play



# TOOL TIME!

## BeeBot

https://www.terrapinlogo.com

Button-on-top robot designed for little learners. See also BlueBot.

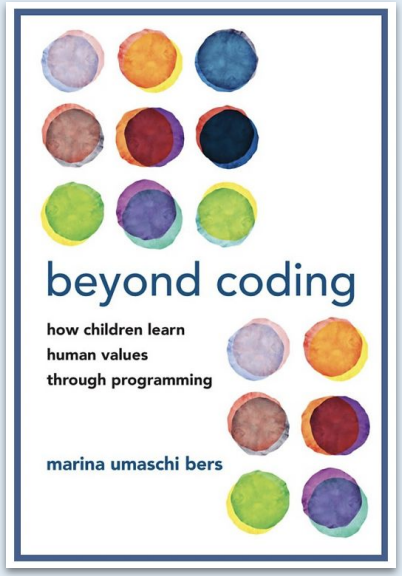
Emulator: https://beebot.terrapinlogo.com/

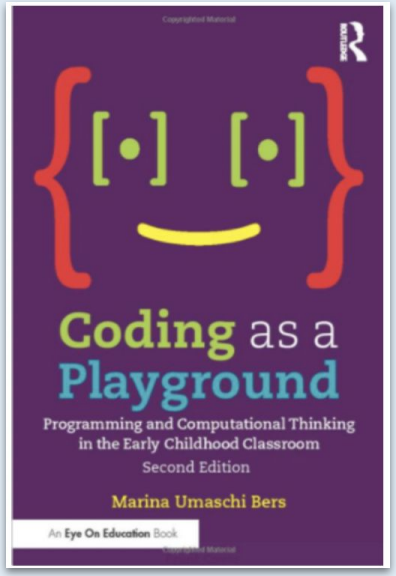
# Research: Guided Play

"...identified significant evidence for guided play having a greater positive effect than direct instruction on early maths skills, shape knowledge, and task switching, and a greater positive effect than free play on spatial vocabulary...

https://bit.ly/researchplaybasedlearning

# Dr. Marina Umaschi Bers



- https://www.marinabers.com/

Dr. Marina Umaschi Bers

# 7 minute video by Dr. Bers

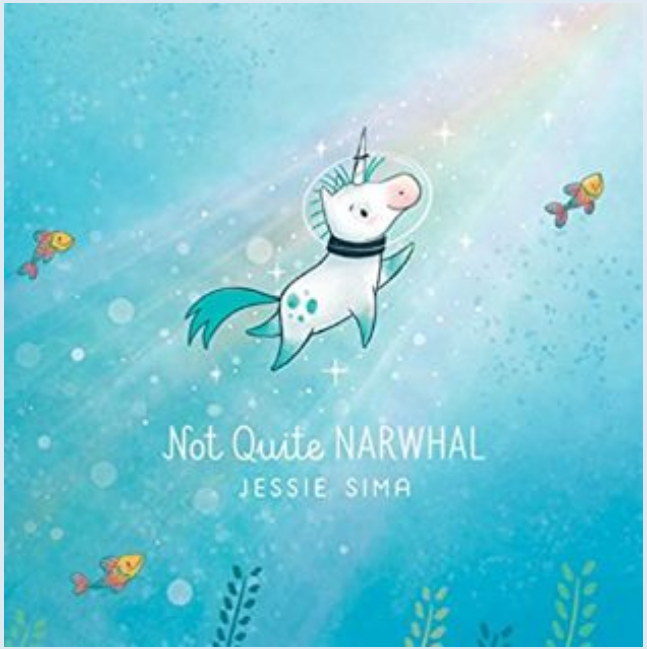
https://bit.ly/3q37hFw

# Double or Triple Dip!

house

# Novel Engineering with Design Thinking

## Heidi Macgregor



Research says...

"Educating pupils in STEM areas emphasises the integration of these four academic disciplines..." "STEM education attempts to bridge the gap between the classroom and the real world by providing students with hands-on opportunities to apply what they've learned in class."

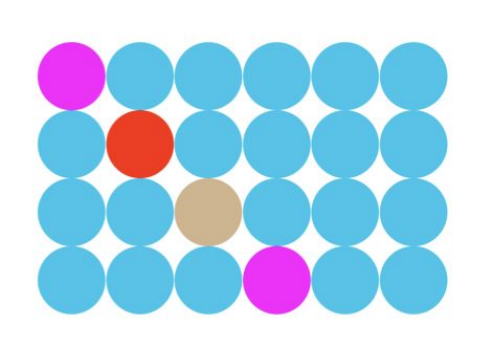
https://ieeexplore.ieee.org/abstract/document/9761354

# Computational Thinking

"A thinking process, and the related skills, for creative, precise, and logical thoughts and communication.
It is NOT coding,
it underpins coding."

- Gail Lovely

# Computational Thinking

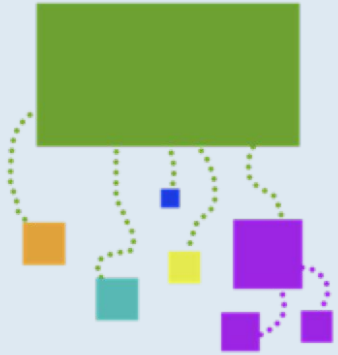


## Pattern Recognition

Making connections between similar problems and experience or finding patterns and testing them.

Not just ABABAB...

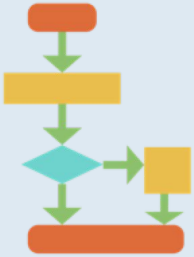
# Computational Thinking



## Decomposition

Breaking a problem into smaller “chunks”

Computational Thinking



# Algorithms

Creating and testing step-by-step plans to solve problems or achieve results

- https://bit.ly/dismissaltasks

Little Learners BIG Ideas!

ISTE 23

# Thank you!


## Gail Lovely

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