@mathanywhere

MATH Anywhere

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@mdaley15

How many?

"We want kids running around the classroom and bumping into mathematics at every turn"

-Doug Clements

TED

TED

Yesterday at 7:16am ·

Here's why you should ask someone "What is 25 times 25?" during a job interview:

5 interview questions that will help you hire better people

To identify the candidates who have substance and not just smarts, here are better questions to ask.

IDEAS.TED.COM

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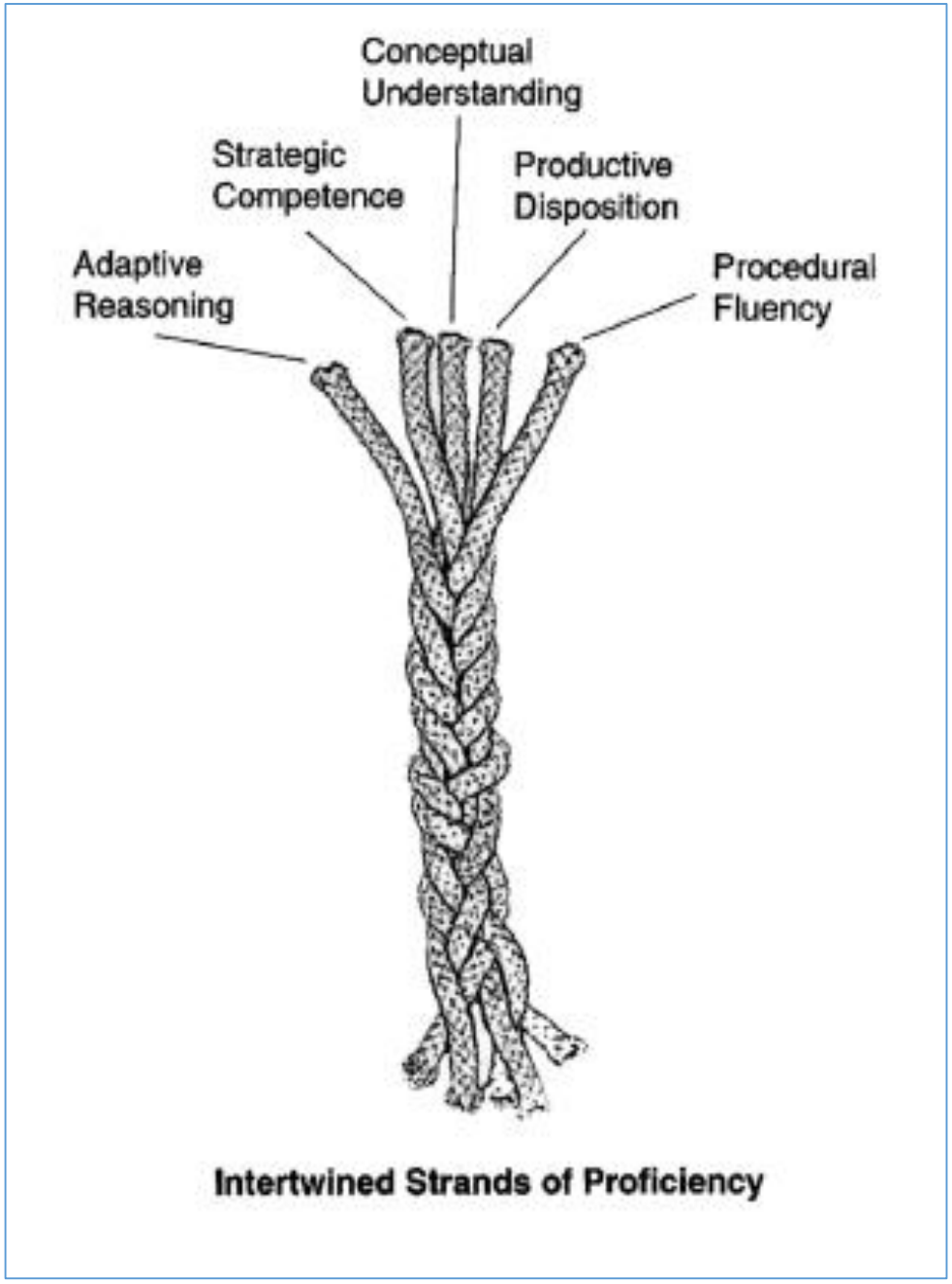
7.7K Top Comments

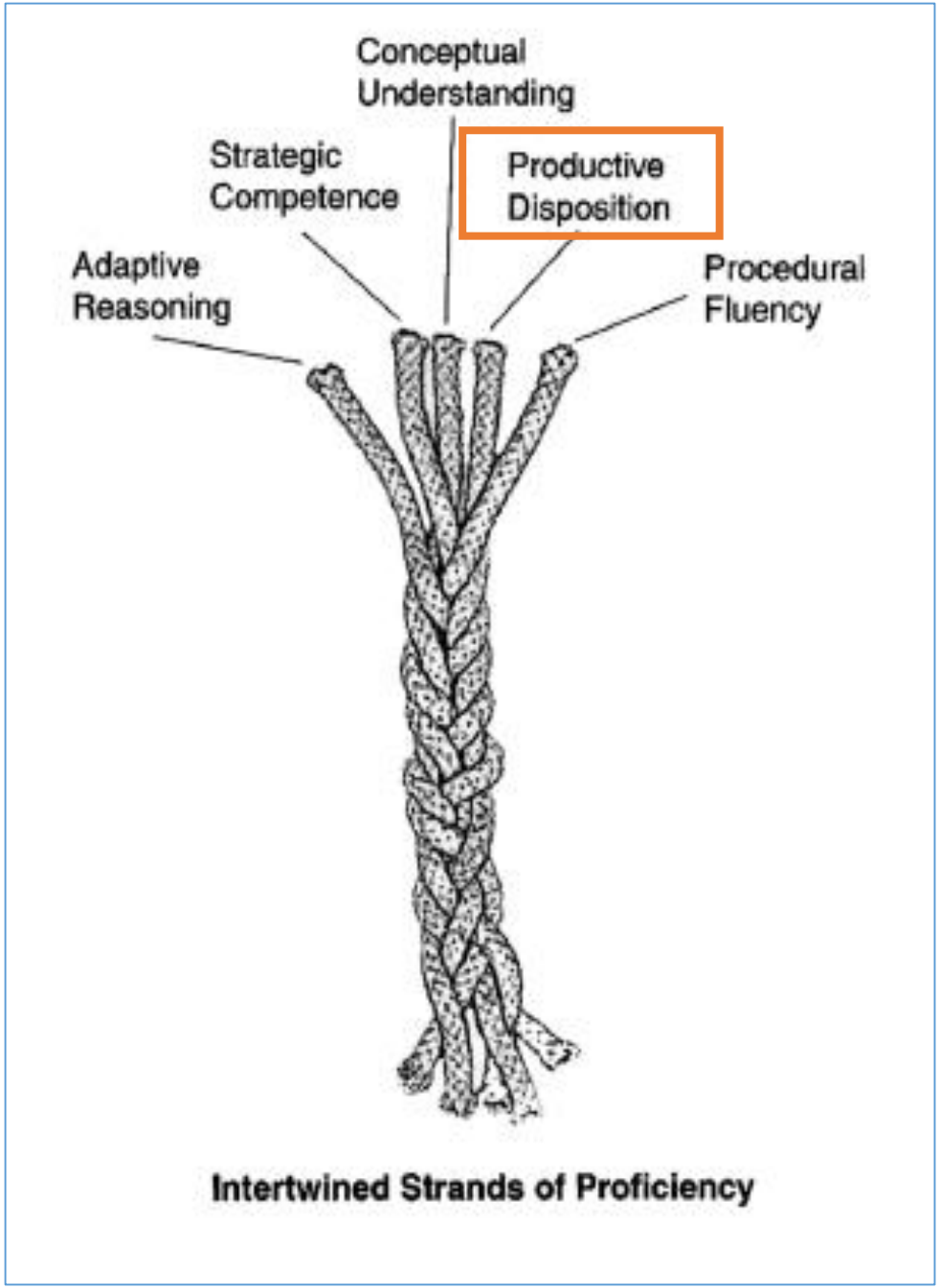
"For preschool children the strands of mathematical proficiency are particularly closely intertwined…They are positively disposed to do and understand mathematics when they first encounter it."



National Research Council; "Adding It Up: Helping Children Learn Mathematics." 2001.

1. What characterizes a *Productive Disposition?*

2. What factors shape our dispositions?

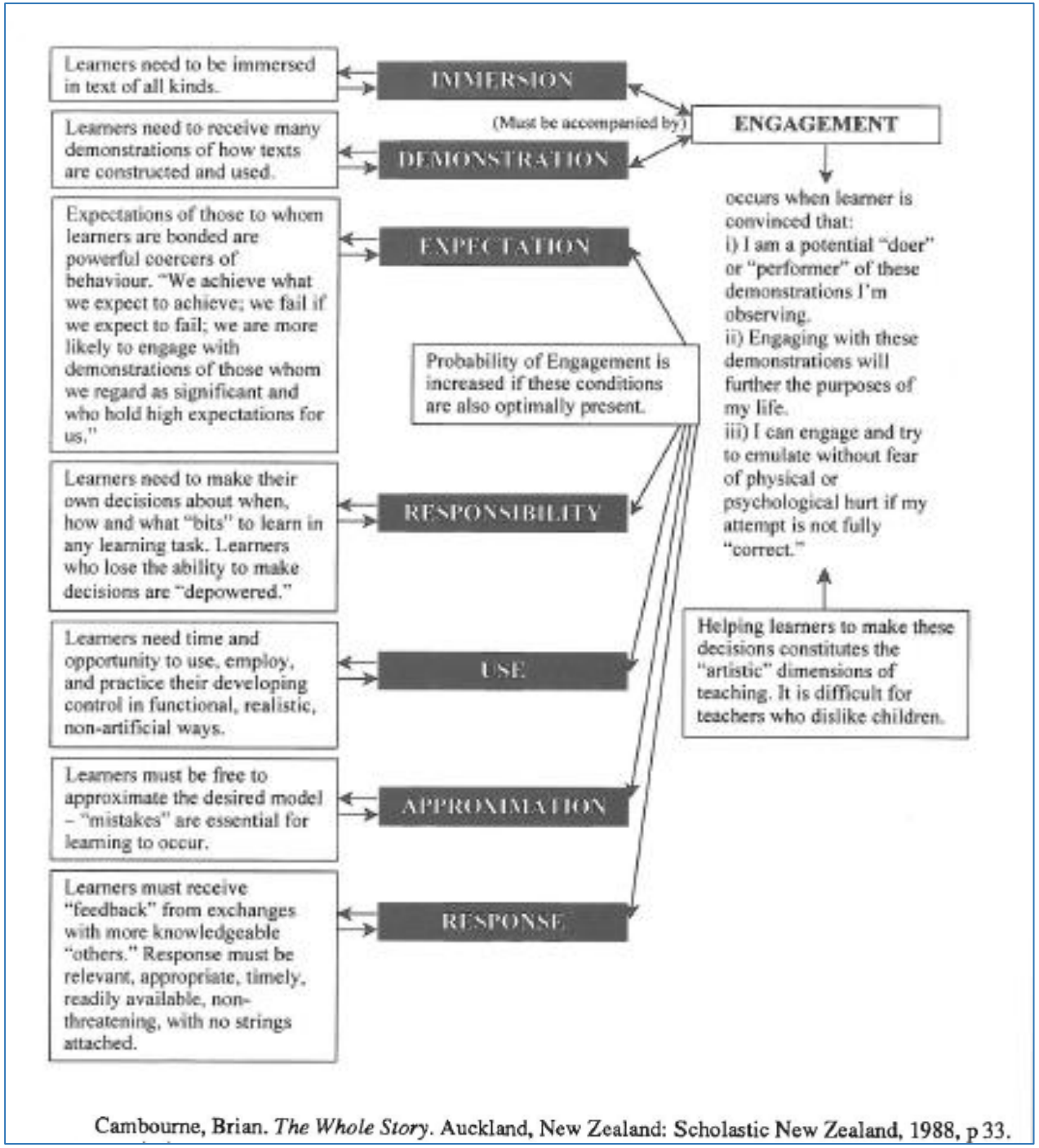


National Research Council; "Adding It Up: Helping Children Learn Mathematics." 2001.

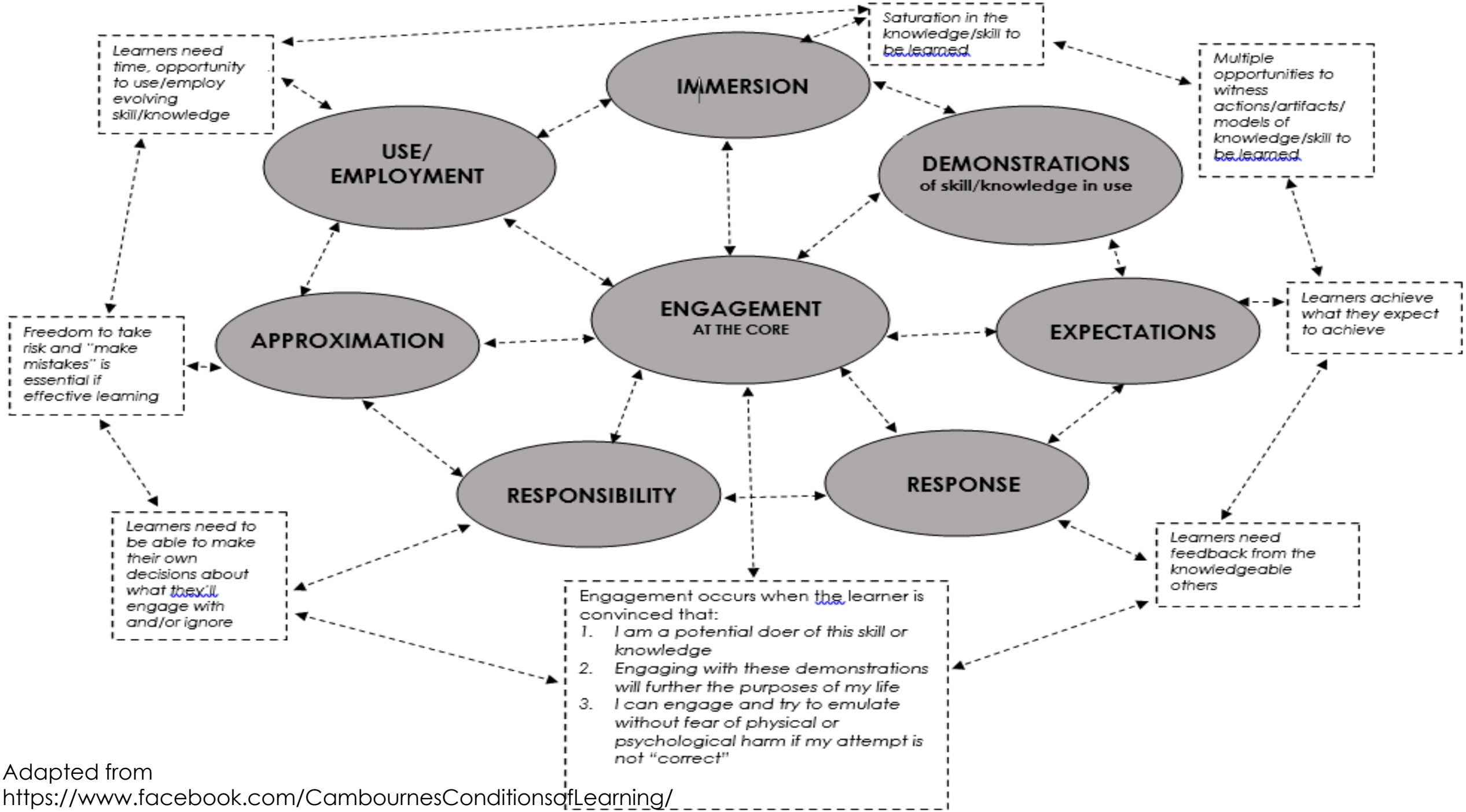
"Mathematically proficient people believe that mathematics should make sense, that they can figure it out, and that becoming mathematically proficient is worth the effort."

National Research Council; "Adding It Up: Helping Children Learn Mathematics." 2001.

Cambourne's Conditions of Learning



Cambourne, Brian. *The Whole Story*. Auckland, New Zealand: Scholastic New Zealand, 1988, p 33.



Adapted from
https://www.facebook.com/CambournesConditionsofLearning/

Photo by Aleksandar Popovski on Unsplash

Which of these conditions could we strengthen in our early math experiences?

Engagement

Engagement occurs when learners are convinced that:

- they are potential doers or performers of these demonstrations;
- engaging with these demonstrations will further the purposes of their lives;
- they can engage and try to emulate without fear of physical or psychological hurt if their attempts are not fully correct.

Cambourne's Conditions of Learning

MATH Anywhere

PROMOTE

- **IMMERSION** in, **DEMONSTRATION** & **USE** of mathematical thinking
- Productive **RESPONSE** to mathematical **APPROXIMATION**
- A shift in **EXPECTATIONS** & **DISPOSITIONS** of mathematics learners & their grown-ups

VIA SUPPORT TO…

1. **NOTICE** mathematical moments
2. **ENGAGE** in mathematical moments
3. **PROMPT** math thinking & talk

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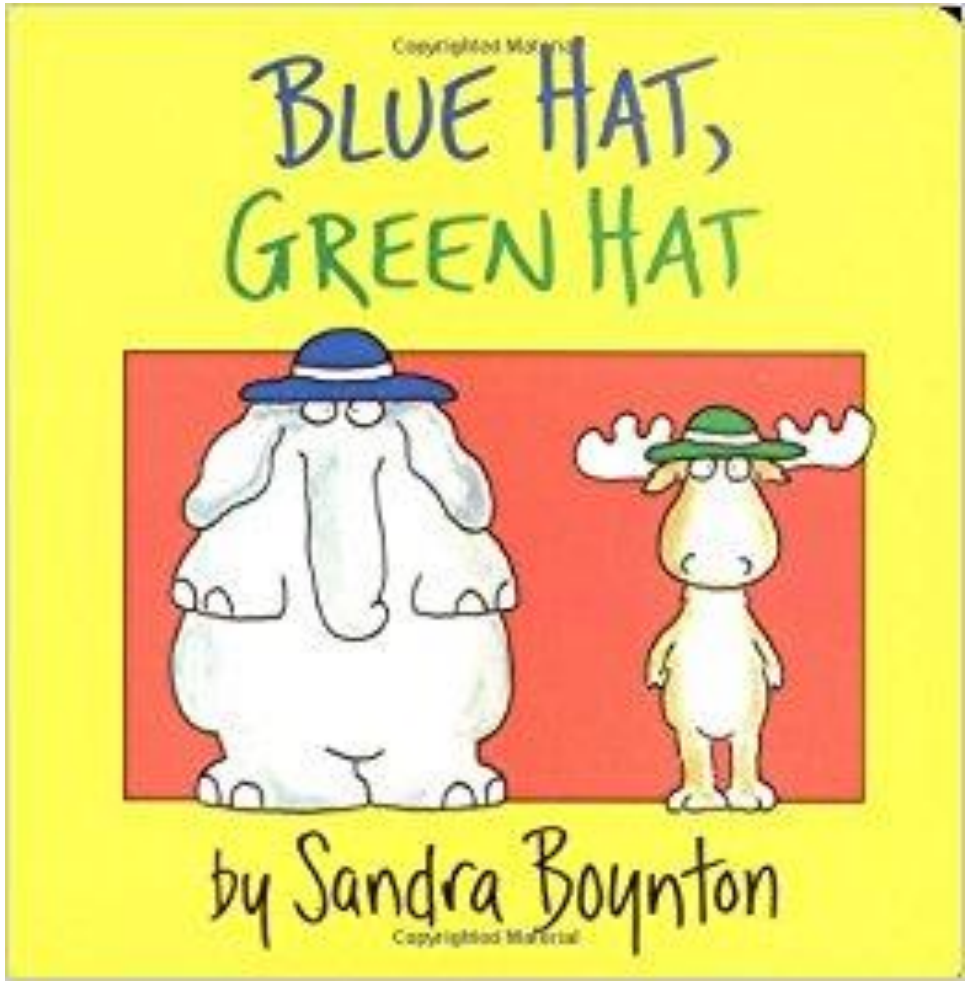
Notice Mathematical Moments



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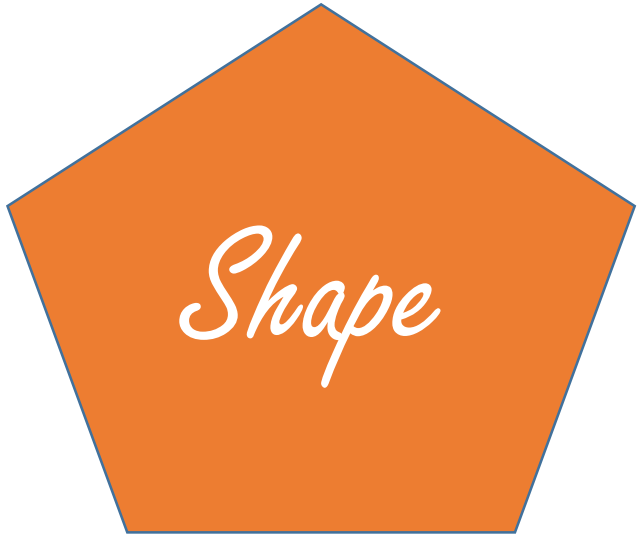
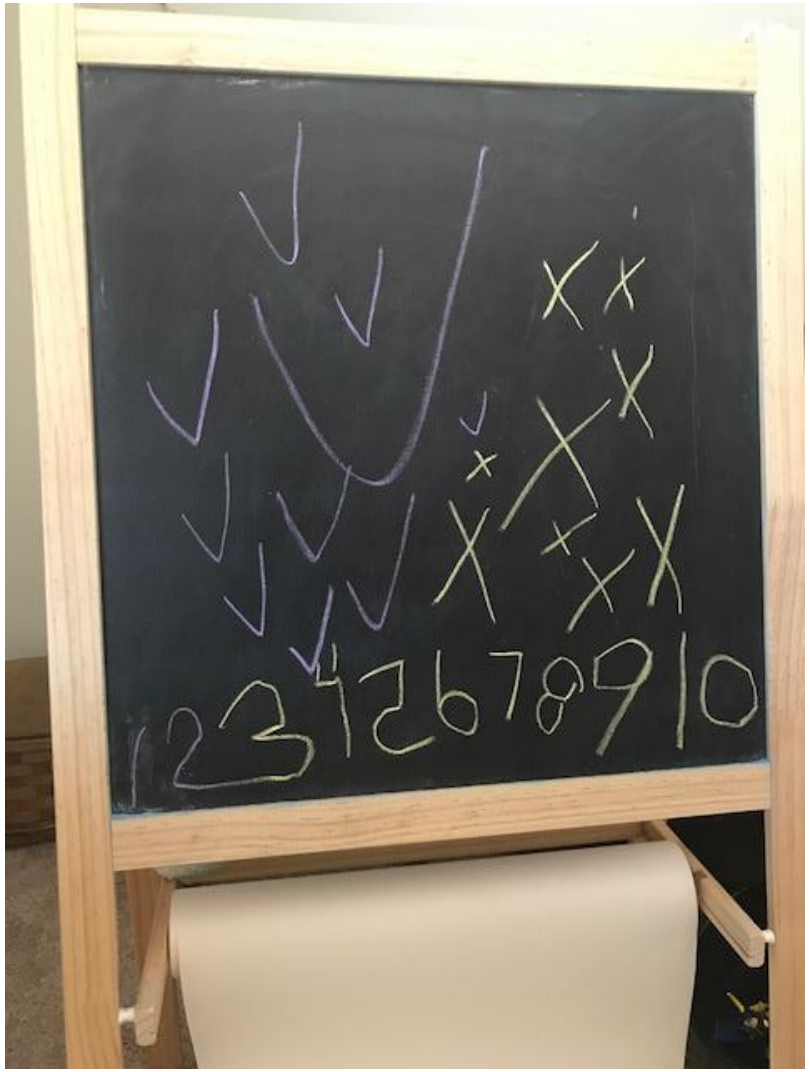
QUANTITY

POSITION



SIZE

Engage in Mathematical Moments



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Prompt Mathematical Moments

Photo by Kelly Sikkema on Unsplash

Photo by Marc Fulgar on Unsplash

Lather, Rinse & Repeat

How Many?

How Many?

How Many?

Simon Gregg (@Simon_Gregg)

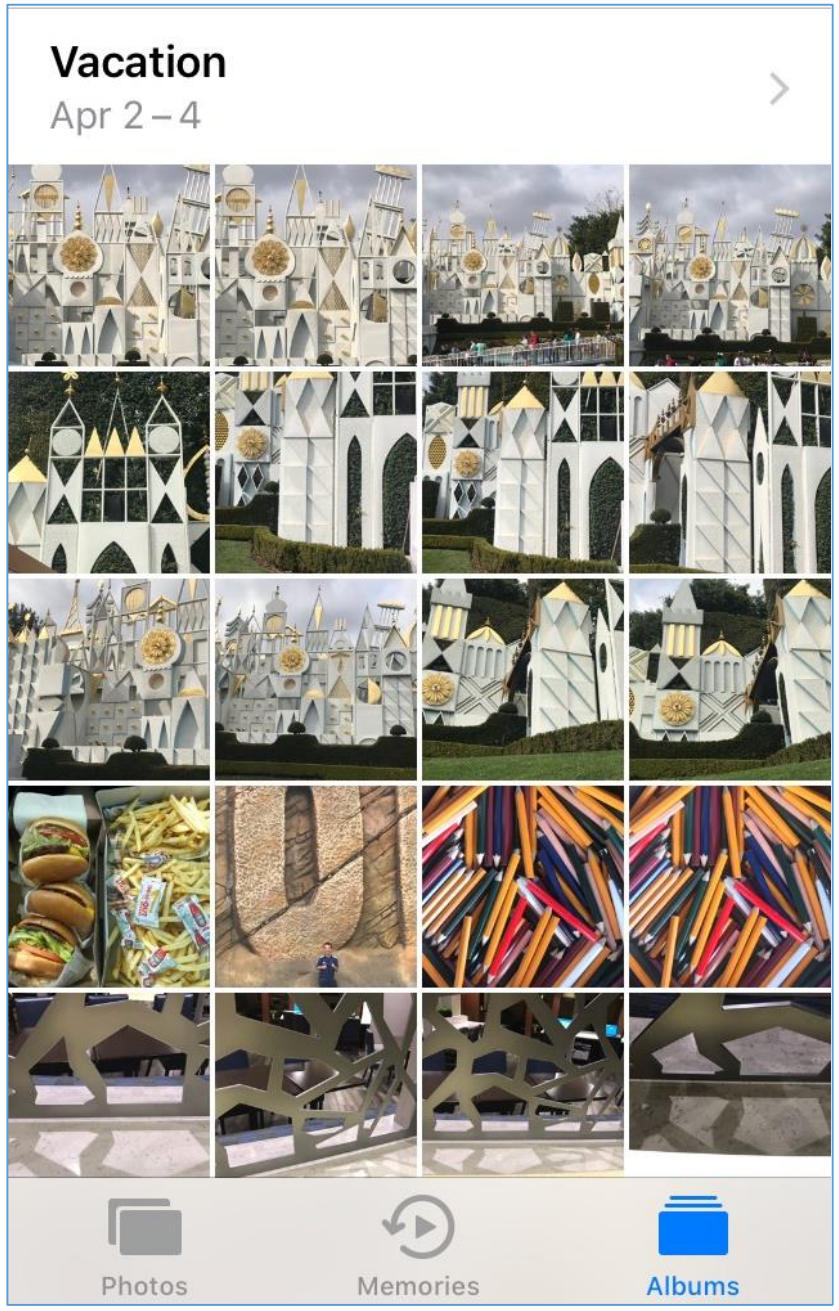
Ellen Degeneris (@TheEllenShow) Cupcakes from Kerry Washington (@kerrywashington)

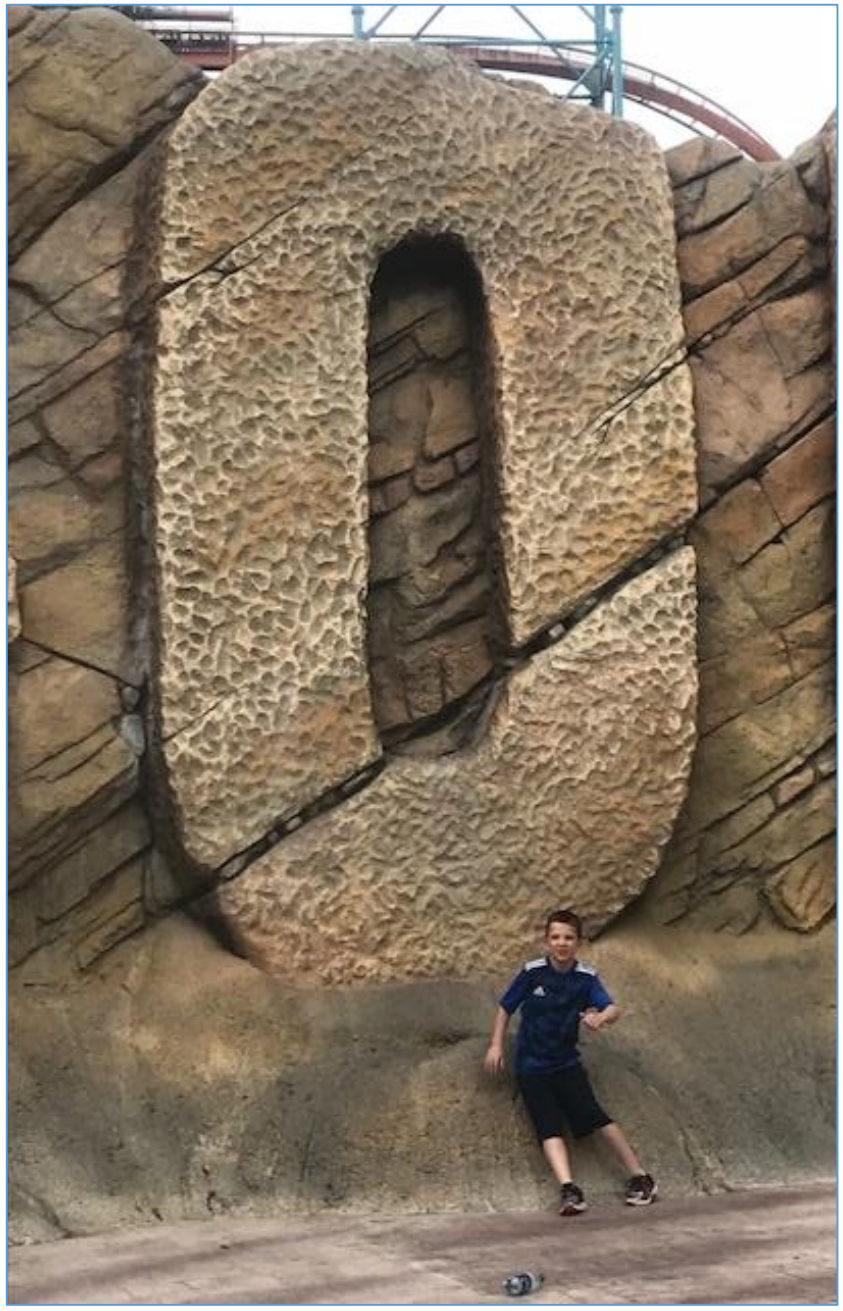
Tawnya Brooks added 3 new photos.
October 3 at 4:49pm ·

Eggs and garden harvest!



Like Comment


Vacation
Apr 2 – 4
Photos
Memories
Albums



Can you find…?

Photo by Nikos Zacharoulis on Unsplash

Can you find…?

Photo by Annie Spratt on Unsplash

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How many?

- Open-ended
- Open-middle
- Not answer-getting

Can you find…?

- Open-middle
- Not answer-getting


UMBER TALK IMAGES
ACCUEIL I HOME
POINTS I DOTS
PHOTOS
SUITES I STRINGS
ÉLÈVES I STUDENTS
MORE...
Number Talk Images
Un projet collaboratif qui a pour but de recueillir des images intéressantes
qui peuvent servir comme point de départ pour des jasettes mathématiques
au sujet des nombres.
A collaborative project dedicated to gathering interesting images
to be used as a launching point for Number Talks.
CONTRIBUER | CONTRIBUTE
http://ntimages.weebly.com/

https://www.stenhouse.com/content/how-many

Which One Doesn't Belong?

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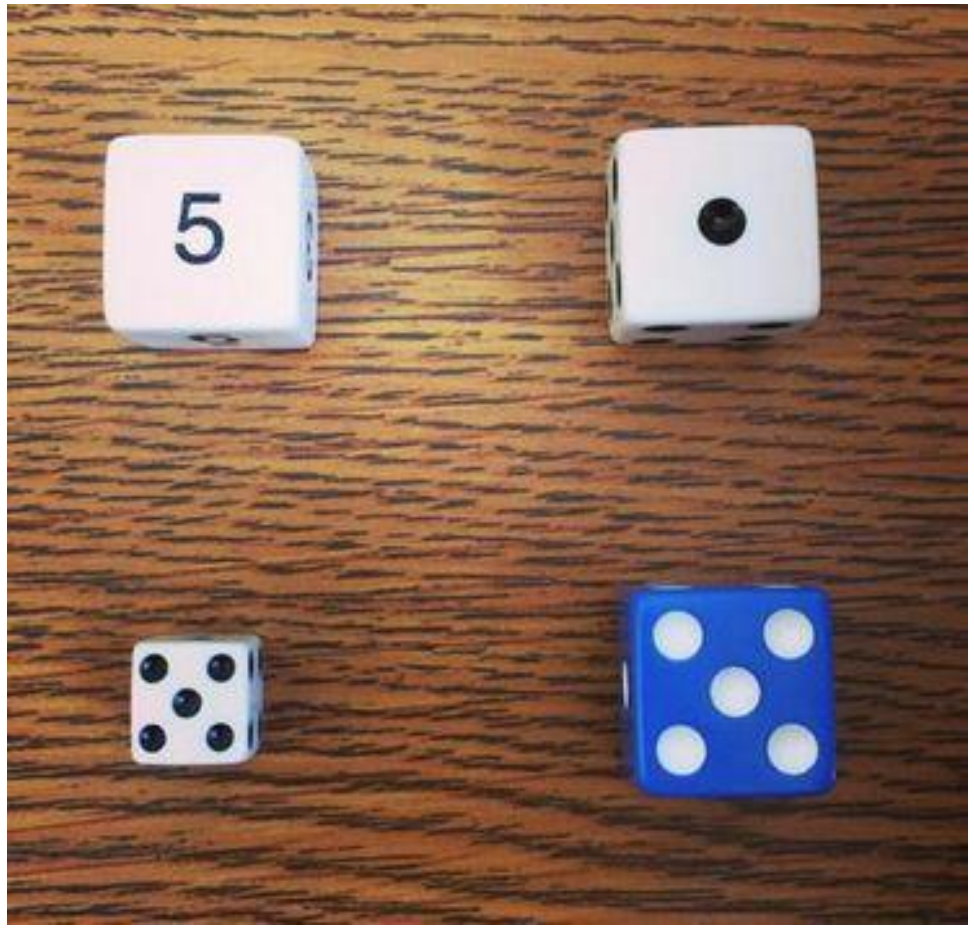
Sesame Street - One Of These Things - food and mitten - Bob (1969)

Which One Doesn't Belong?

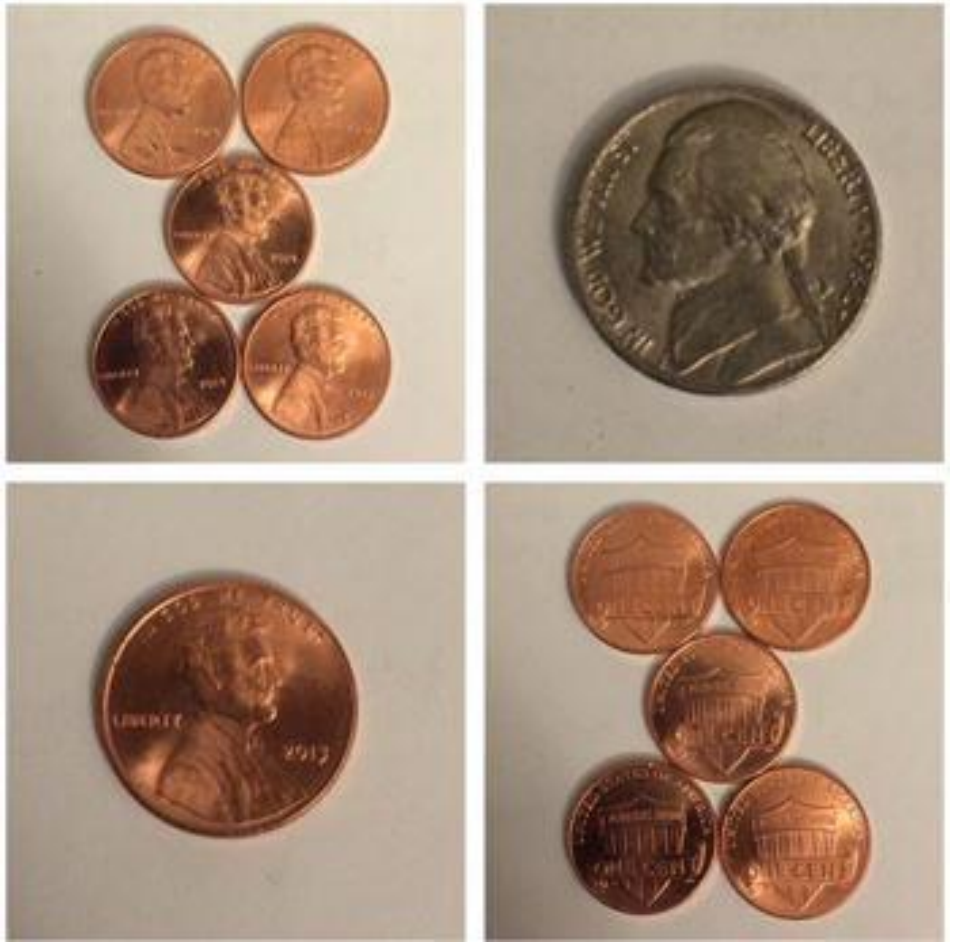
http://sites.stenhouse.com/wodb/

http://sites.stenhouse.com/wodb/

Which One Doesn't Belong?



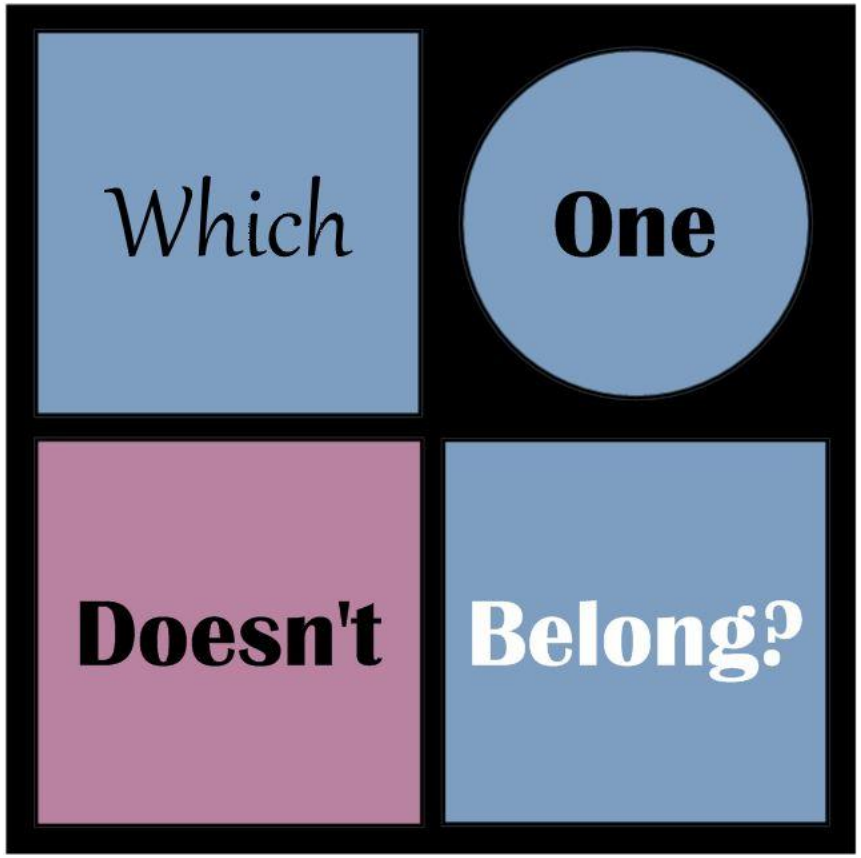
from Andrew Gael http://wodb.ca/



from Andrew Gael http://wodb.ca/

Which One Doesn't Belong?

http://sites.stenhouse.com/wodb/



http://wodb.ca/

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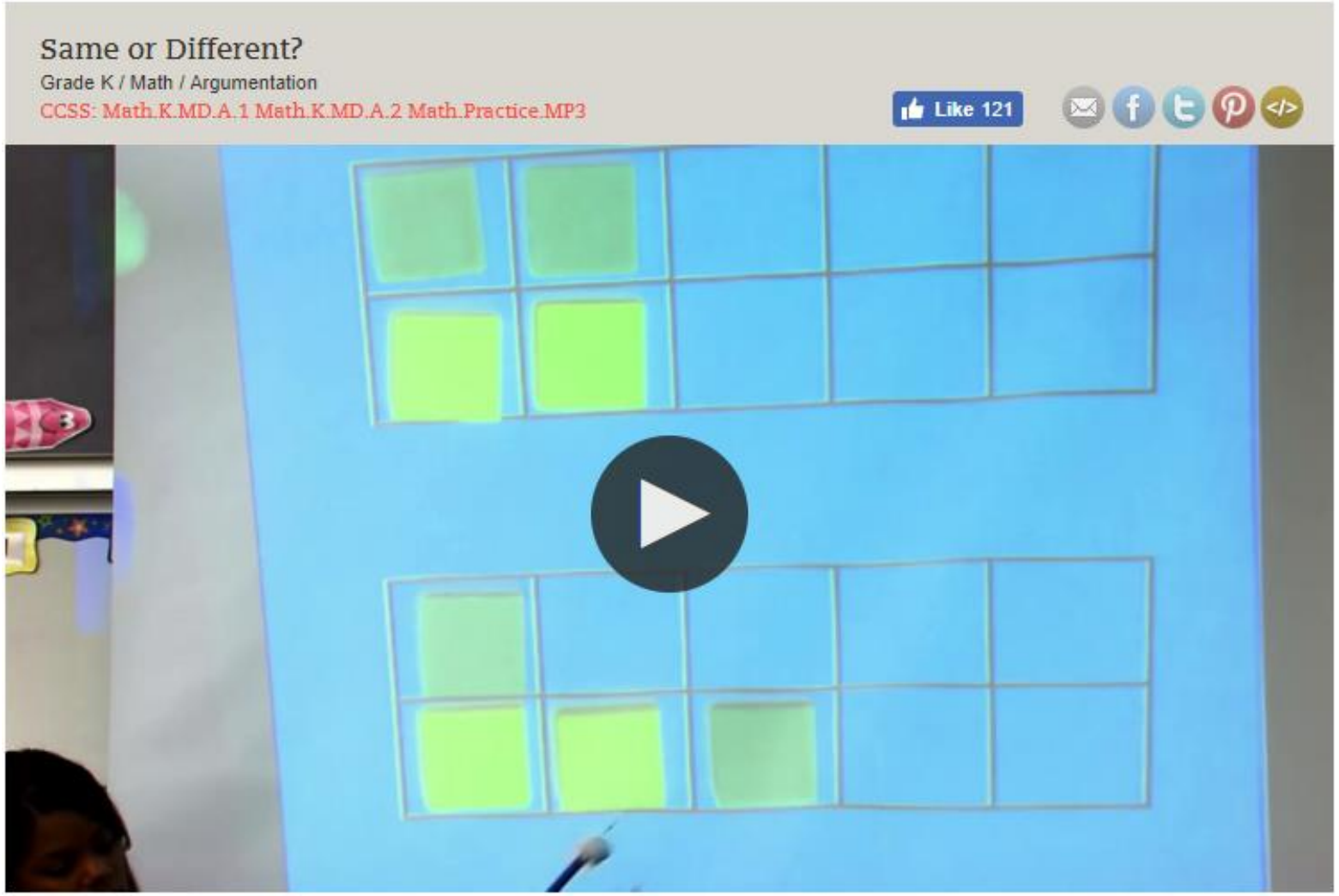
WODB

- *Which one doesn't belong? Why?*
- *Can you think of another reason?*
- *Can you think of a reason for each of the objects in your set?*

REFLECTION

- *Which attributes did you pay attention to?*
- *Was your conversation math-y? Not math-y? Why? Does that matter?*

Same or different?



WELCOME!

https://samedifferentimages.wordpress.com/

If you are new to the Same or Different? routine, please click the About page in the menu above to learn more. If you're ready to dive in

Photo by Dennis Klein on Unsplash

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Which One Doesn't Belong?

- Open-ended
- Open-middle
- Inclusion and Exclusion

Same or Different?

- Open-ended(ish)
- Open-middle
- Inclusion or Exclusion

Educational Service District 112

WASHINGTON STEM
REIMAGINING SCIENCE, TECHNOLOGY, ENGINEERING + MATH EDUCATION

MATH Anywhere

A Collaboration between Early Learning and STEM Initiatives

Fort Vancouver

Community Library

Family Engagement Prompts

MATH at your LIBRARY

Find
SIZES

How to Play:

"I see a **small** button! I see a **tall** bookshelf! What can you find?"

As you explore the library look for something big, small, short, and tall.

Write or draw what you see.

SMALL	BIG
SHORT	TALL

Keep going! What other sizes can you find?

MATH at your LIBRARY

In partnership with: THE LIBRARY Fort Vancouver Regional Library District

Share what you find! @mathanywhere

How many?

What can you count?

How many are there?

How did you count them?

Keep going! What else can you count?

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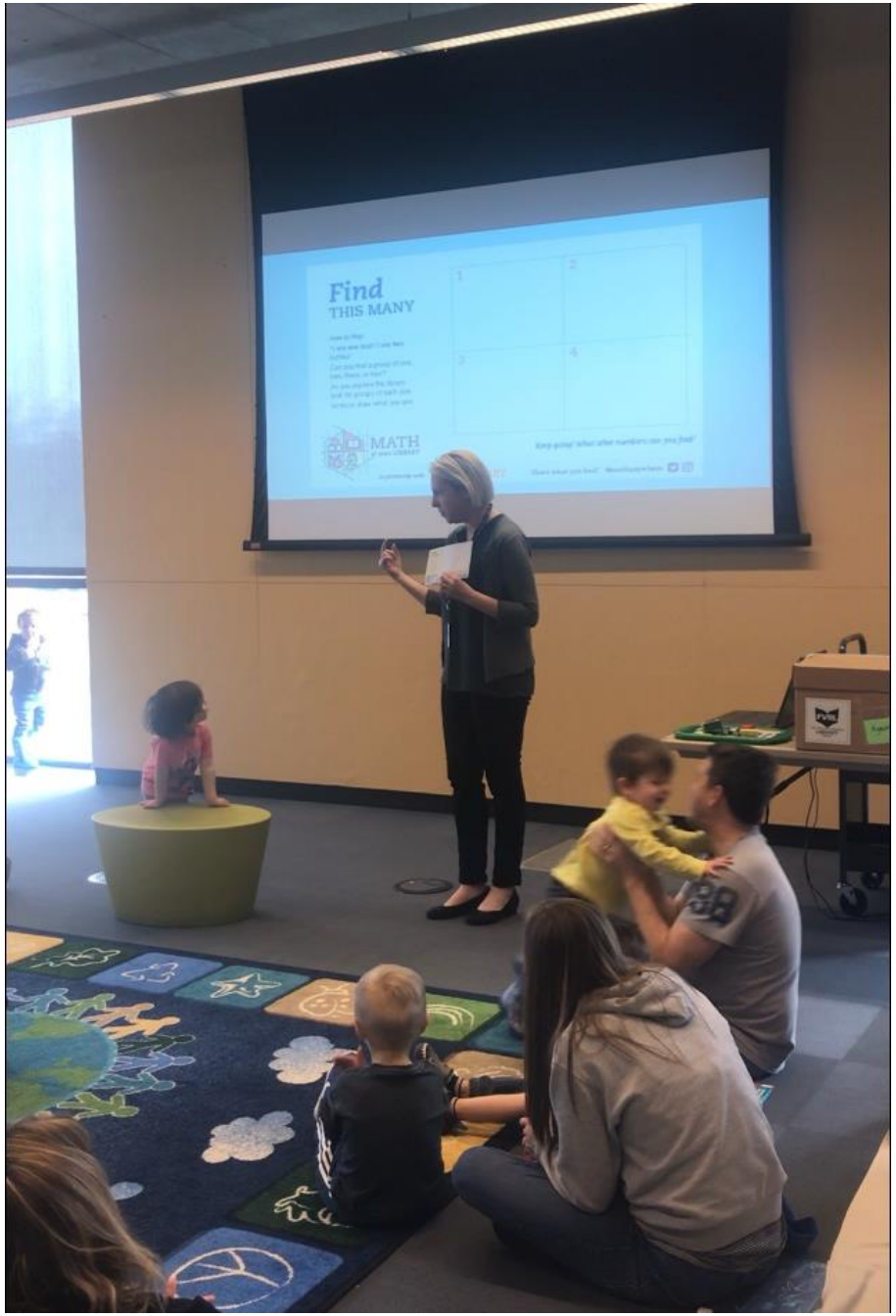
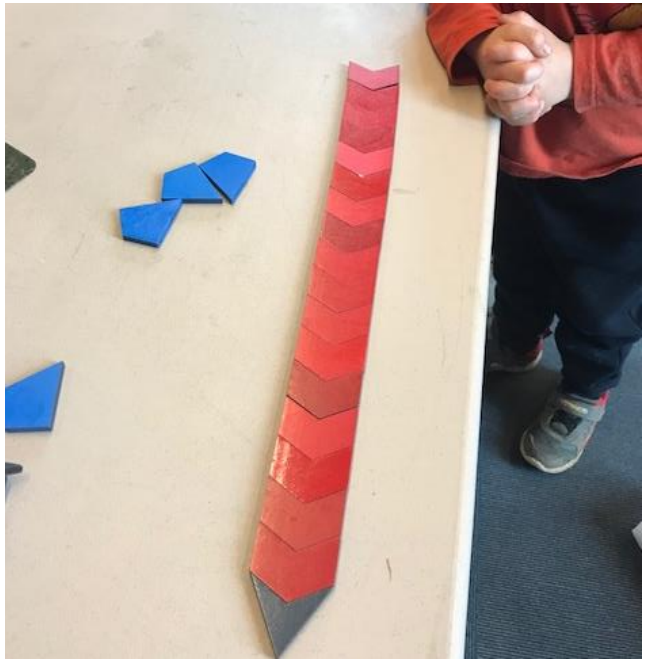
Play this game anywhere!


Find
THIS MANY
MATH



Community Engagement Strategy

- Pop-up Play Materials
- The Book Peddler
- Dot Donuts
- Burgerville
- Chuck‘s Produce
- Kiggins Theater

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How many? Food styling. Bringing math to the movies.

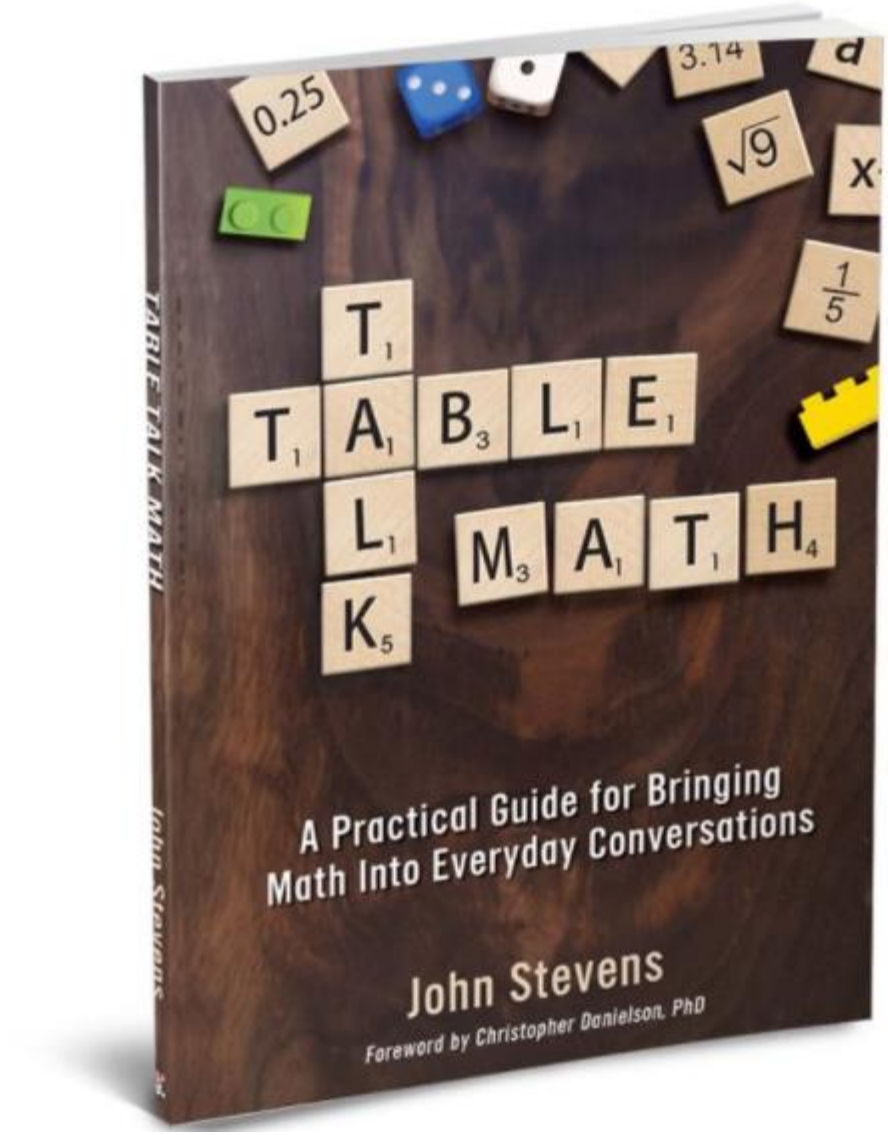
3:21 PM - 13 Mar 2018

MATH at the MOVIES

https://talkingmathwithkids.com/

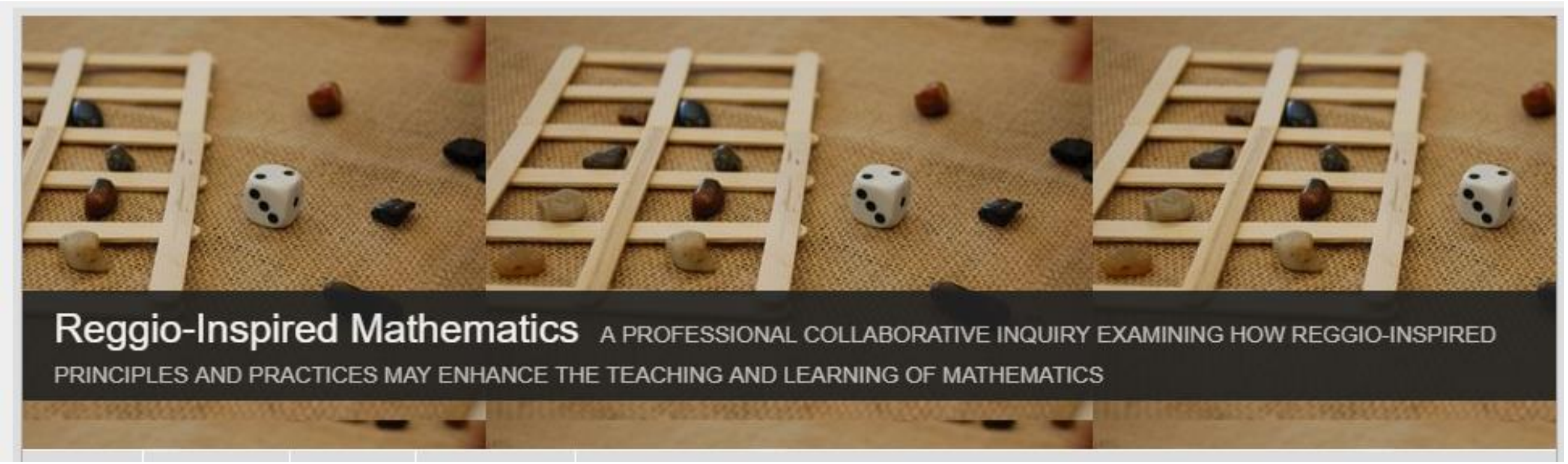
@trianglemancsd

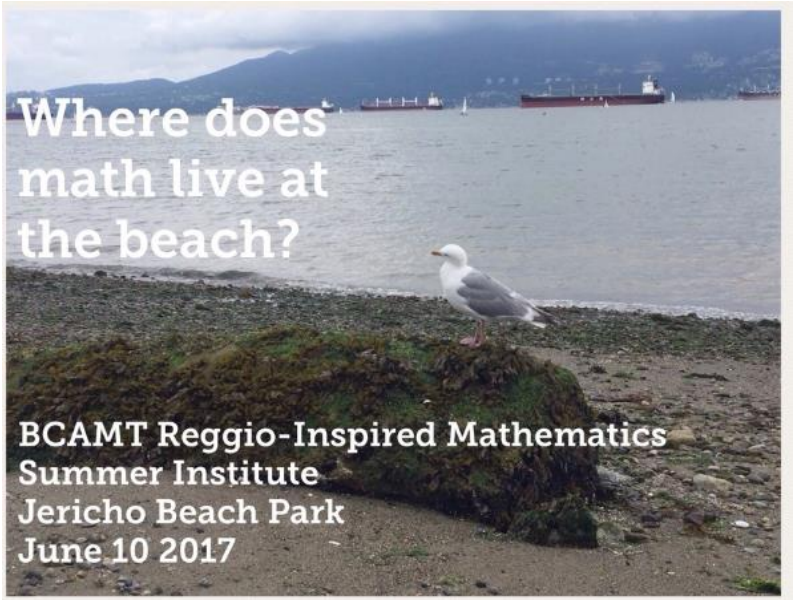
#tmwyk



www.tabletalkmath.com

@TableTalkMath





http://janicenovkam.typepad.com/reggioinspired_mathematic/

@jnovakowski38

http://bedtimemath.org/

@BedtimeMath

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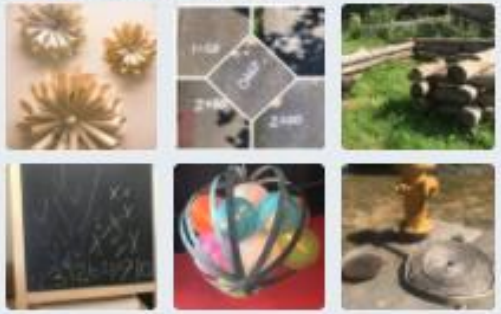
Joined January 2017

6 Photos and videos



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MATH Anywhere

NOTICE ENGAGE PROMPT

HAVE FUN!

Photo by Lubomirkin on Unsplash

WHAT BOOKS ARE
TO READING
PLAY
IS TO MATHEMATICS.

-DANIEL FINKEL
@MATHFOROVE

Christopher
@Trianglemancsd

Following

Hey everyone! @mdaley15 is just getting started with a really delightful project. Follow @mathanywhere to encourage it! #tmwyk

2:52 PM - 3 Aug 2017

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