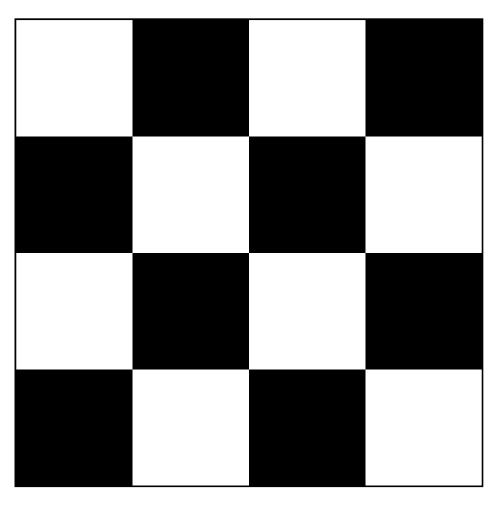
## IT'S MITTE THAN JUST "FLIPPING" THE CLASS!

#### Using Technology Intelligently to Enhance Teaching & Ignite Learning

with Damon Givehand, Cengage Learning | Digital Educator

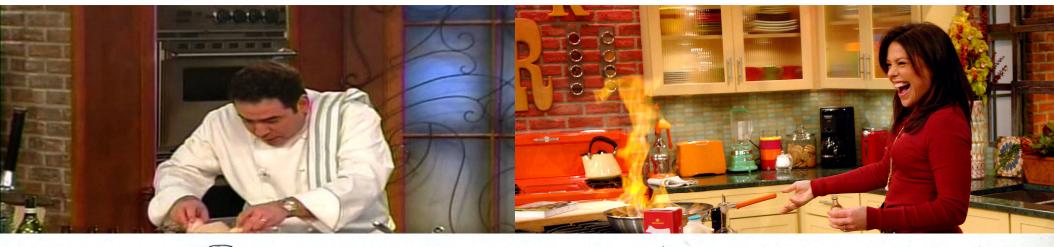


## How many unique squares?



#### How many jelly beans in your life...? video

- You can find this by doing a YouTube search
- Here's a URL for it <a href="https://www.youtube.com/watch?v=BOksW">https://www.youtube.com/watch?v=BOksW</a> NabEk





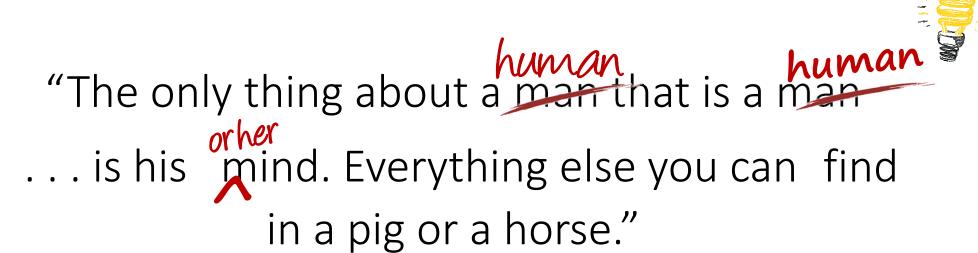


### PUZZLE #1

7H15 M3554G3 53RV35 70 PROV3 HOW OUR M1ND5 C4N D0 4M4Z1NG 7H1NG5! 1MPR3551V3 7H1NG5! 1N 7H3 B3G1NN1NG 17 W45 H4RD BU7 NOW, ON 7H15 LIN3, YOUR M1ND 1S R34D1NG 17 4U70M471C4LLY W17H OU7 3V3N 7H1NK1NG 4B0U7 17, B3 PROUD!

7H3 M1ND I5 4 73RR1BL3 7H1NG 7O W4573! ◎





Archibald MacLeish



How can modern digital tools be intelligently applied to promote active learning?

How can modern digital tools be intelligently applied to increase teacher productivity?



What online resources or apps exist for math instructors? (please give website or app name and brief description)

What strategies have proven to work well with engaging math students and helping them develop into competent, proficient learners?

# FOUR Questions



How can modern digital tools be intelligently applied to promote active learning?



How can modern digital took be intelligently applied to promote active learning?

Pre-class learning + + +

Videos, etc.) of

Videos, etc.) of

Videos to show relevance? + +

ASSESSMENT TO Check UNDERSTANDING + +

CNU ADSJUST CONTENT TO BEST Meet Needs + +

MARCHARE IT PERSONAL to each learner + +

TEAM WORK GUTSIDE of Class? +

Easily accessible is mobile tech

I Minediate feedback -

How can modern digital tools be intelligently applied to increase teacher productivity?



How can modern digital tools be intelligently applied to increase teacher productivity? - What are considered modern digital took? ??? - Graphing calculates - see gap he right away + - charge variables D impact on diff. pats of -understanding student behavior/++

(analytics) performance - refine student process real-time + ? - Videos as additional teaching tools + + - HAVE ASSIGNABLE + GRADABLE HOMEWORK + - SEE STUDENT PERFORMANCE in REAL-Time to ADJUST CLASS + PROGRESS + -GRADED HOMEWORK +
- ASSESSMENT & PLACEMENT & STUDENTS + Continual Using Son-to-Sem Soves Time

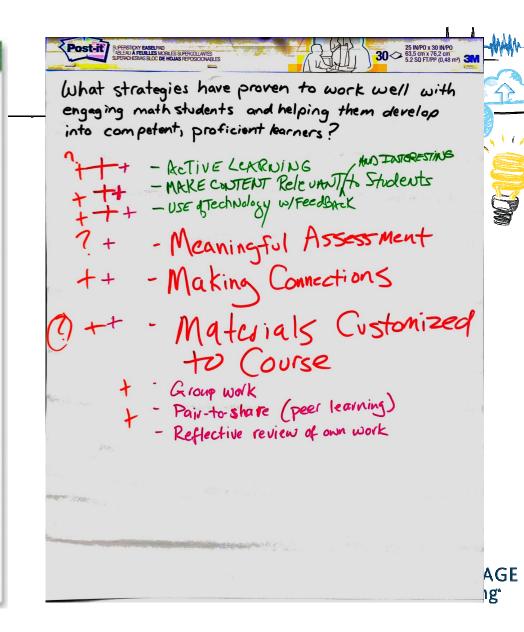
**\GE** 

What online resources or apps exist for instructors in your discipline? (please give website or app name and brief description)

What online resources or apps exist for math professors? (please give website or app name and brief description) c Software Accuplace + Camtasia + Weblssign ++ My Math Lab + Desmos H Wolfram Alpha ++ Blackboard (LMS) + Presentation apps/software i.e. Prezi, invoic 1000

What strategies have proven to work well with engaging students and helping them develop into competent, proficient learners?





## 3 Types of Interaction Important for Learning <u>AND</u> Engagement

Learner-Content



Learner-Instructor



Learner-Learner



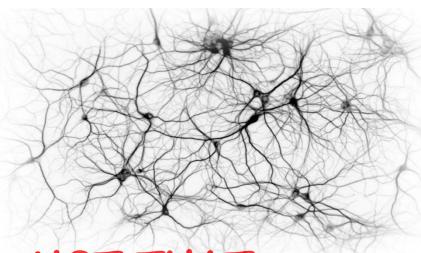




#### Think of something challenging that you learned and got good at...

• Think about the process you went through to get better and better.





## PROCESS

NOT THAT

GETTING BETTER GETTING MUCH BETTER

#### Initial

exposure experience

#### Subsequent

exposure, experience, and practice

#### Frequent/Repeated

often, uninterrupted, intense, long periods

#### PUZZLE #2

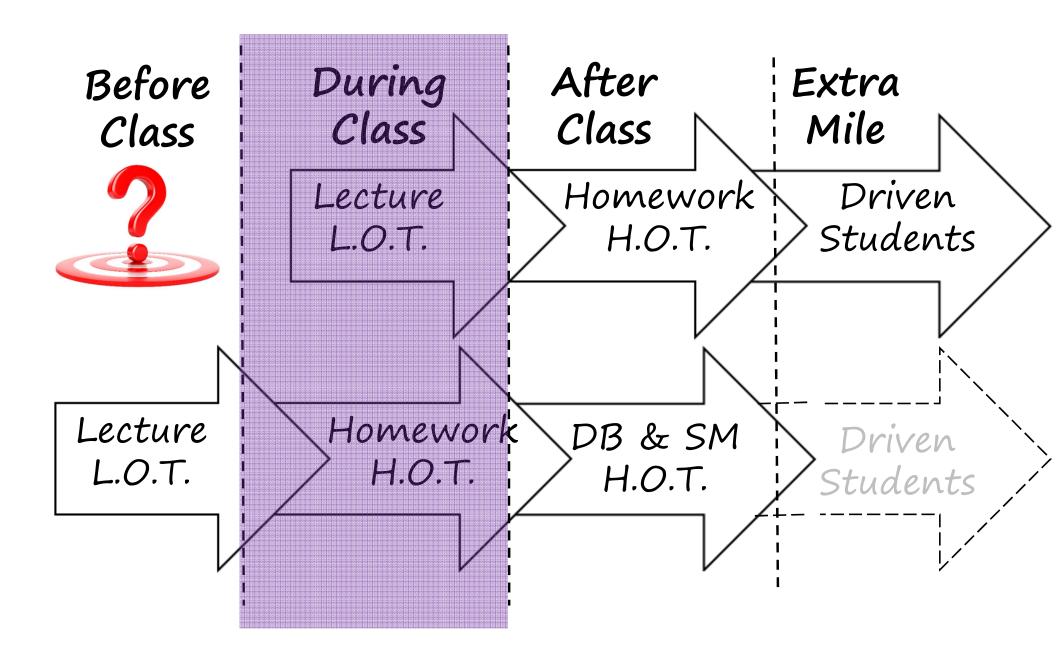
This little card is a quick way to help you see that it's ,time first the for something do you anytime often awkward and a little difficult. Don't be something learning when yourself on tough too new. Always allow yourself time to digest the re-read you if that notice even You'll .experience this several times, it gets easier doesn't it?

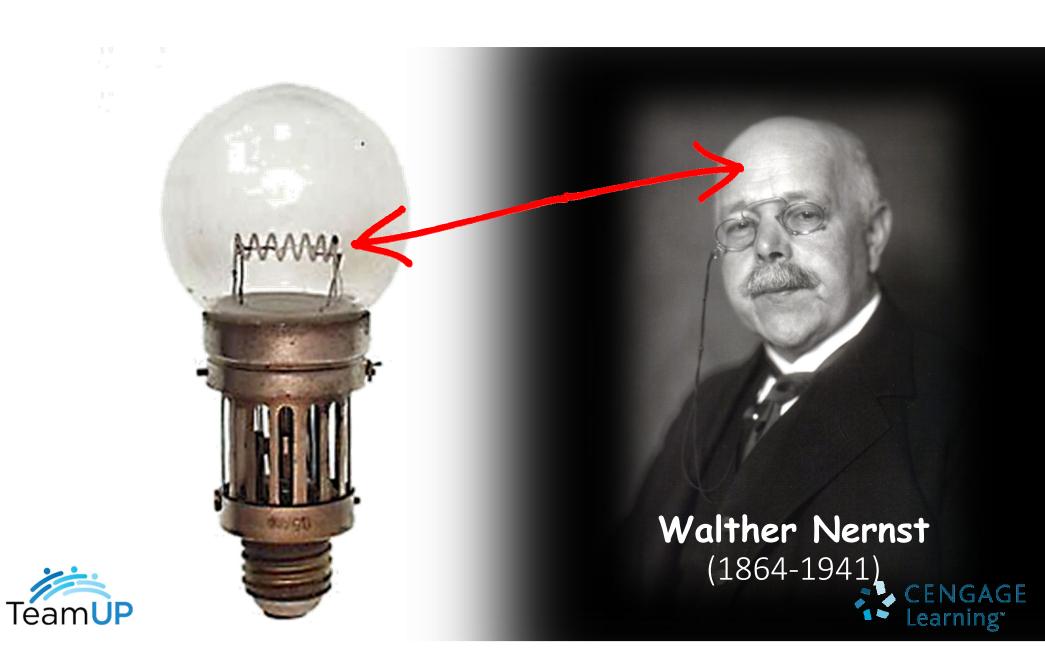


### 90 more seconds of questions

What strategies DO you use to...

- 1. initiate learning sooner with students?
- 2. maximize in-class time to allow for collaborative, higher order thinking activities?
- 3. keep students actively and continuously engaged with subject matter longer?





#### INTELLIGENT USE OF TECH ALLOWS US ...

## BEFORE

DURING CLASS AFTER CLASS

Recordings,
Individualized,
foundational exercises,
convenient, preparatory

interactive,
collaborative, social,
knowledge discovery &
construction

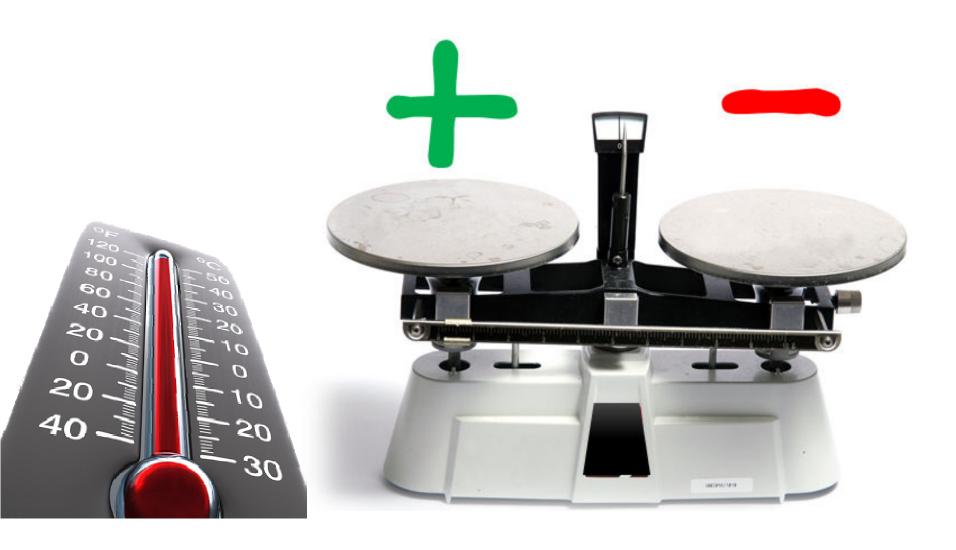
Online discussion boards, prolonged engagement



#### THIS APPROACH TO TEACHING & LEARNING...

- moves the LEARNING TIMELINE → "forward" (sooner)
- provides OPTIMAL LEARNER SUPPORT when it matters most (HOT)
- 3. increases "CONDUCTIVITY" (of mind)

#### What is your feeling about "pre-class" recordings...?







- Jigsaw
- · Changing Charts
- · Think-Pair-Share
- Index Card Questions
- · Quick Encounters & Exchanges
- · Small & Whole Group Discussion
- · Poll Questions
- etc...







## GROWING LEARNERS

Active Learning is the KEY

BEFORE CLASS

DURING CLASS Practice AFTER GLASS

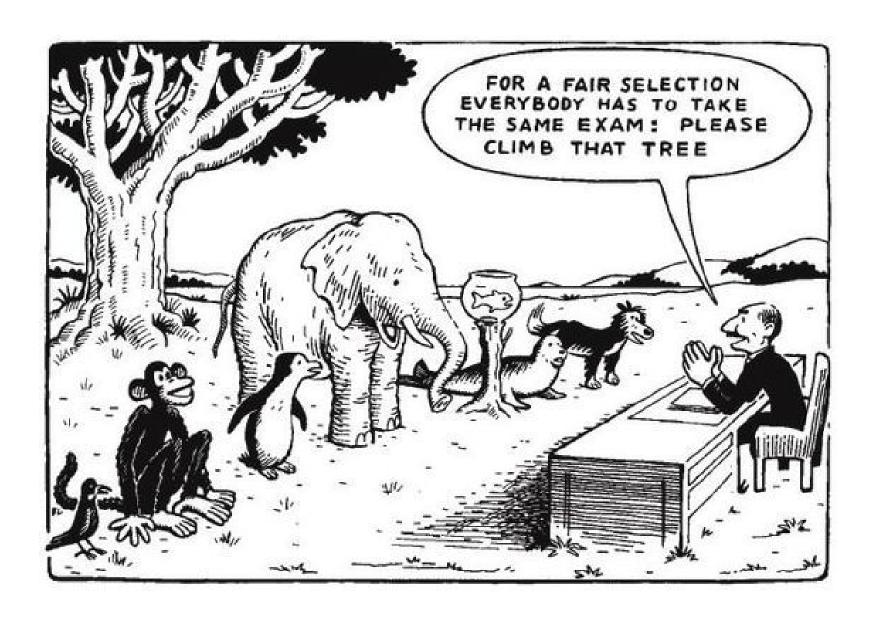
- 1. Higher Order Thinking (H.O.T)
- 2. Collaborative (peer support)
- 3. Active learning/participation for knowledge discovery and construction
- 4. Instructor support when it counts!





~John Dewey, Democracy and Education (1916)





#### PUZZLE #3

WH47 1F YOU W3R3 G1V3N 4 PROBL3M L1K3
4ND COUR53 4 OF B3G1NN1NG 7H3 47 7H15
W3R3 70LD 70 50LV3 17? HOW WOULD 7H15
5H3D5 3X3RC153 7H15 ,533 ?F33L YOU M4K3
L1GH7 ON 4N 1MPOR74N7 PO1N7 70
57RUGGL1NG W17H 35P3C14LLY ,R3M3MB3R
57UD3N75. G1V3 7H3M CH4LL3NG35 1N
C4N 7H3Y 50 CHUNKS 0B741N4BL3 ,5M4LL
B3G1N 70 BU1LD CONF1D3NC3.



#### Connect with me on LinkedIn – Damon Givehand

