# Practical Activities to Engage the College Ready and Non-College Ready Students

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Intro

Why

How

What

Who

**Outline**

# Why:

Everything should be made as simple as possible but not simpler.

Albert Einstein

- Learning is non- linear.

- Every person moves forward, not everyone reaches same point.

- Stretch their thinking.

- Empower students to see themselves as innovators who take responsibility for their own learning.

- If only using technology to access what is in textbooks, computers are $1,000 pencils.

Couros, G. (2015)

# Why: Formative assessment with Smaller Learning Goals

Bridge between teaching and learning – only through some kind of assessment process can we decide whether instruction has had its intended effect.

Wiliam, D. (2014)

Organize into smaller learning goals --an organizational strategy that itself promotes self-efficacy.

(Wolters & Hoops, 2015)

# Why: Deep Learning

Critical components of deep learning:

1. Facts are **integrated**, rather than learned piecemeal;

2. Explanatory concepts are **organized** by schemas, models, or principles;

3. Procedures are **practiced/automatized and contextualized** (i.e., as to how, why, and when to apply them);

4. **Specific** cognitive and metacognitive strategies are used in learning;

5. Learners have **productive beliefs** about their own capacity to learn.

Mayer (2010, 2011)

# How: Icebreakers

- Three Questions:
  - What's your name?
  - What's something interesting/descriptive about you?
  - What's a question you have for me?*
    - Class questions are freebies.
    - It cannot have already been asked/answered.

- $7.62 at Walmart

- Deserted Island: What do you wish you had?

# How: Methods

- **Punctuated Lecture**
  - Break it into segments
  - Ten Minutes (Medina 2014)
- **Guided Note Taking**
  - What to write down? What not to write down?
  - Colors, highlighters, stick figures

# How: Cookbook

- **Cookbook**
  - What are we making?
  - Gather ingredients.
  - Follow instructions.
  - Evaluate.
  - What would we do different next time?

# How: Trilogies

- Think – Pair – Share (Major, Harris, & Zakrajsek, 2016)
- Cue – Do – Review
- Reflect – Adapt – Present
- Understanding – Remembering – Applying
- I Do – You Do – We Do
- One for Me, One for You, …
- Each One, Teach One (Major, Harris, & Zakrajsek, 2016)

# How: Games

- Jeopardy (TeachersPayTeachers)
- Speed Dating/Review*
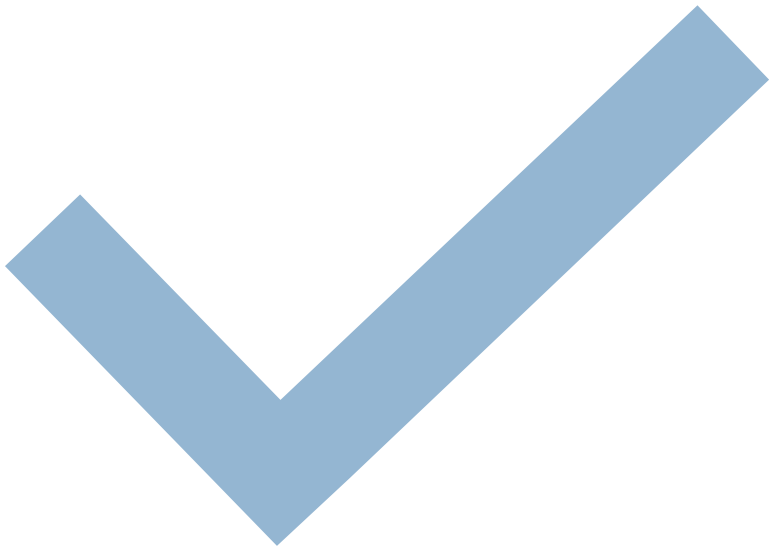- Kahoot (https://kahoot.com/)
- Lecture Bingo*
  - Statistics
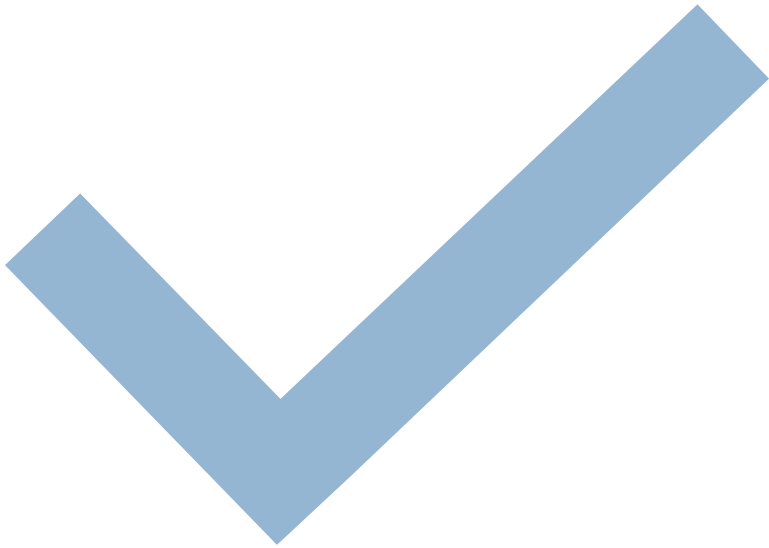
# Speed Dating/Review

- Five minutes to work with partner
- One side moves down a seat
- Two minutes
- Move
- Two minutes move
- ...
- Final round: Three minutes
- Class Poll

# How: Games

- Visible Classroom Polls
  - Online Texting Survey Tool
    - Quizlet
    - Mentimeter

- Graffiti Boards/One Page Cheat Sheet

# School vs Learning by George Couros

## SCHOOL

- promotes starting by looking for answers
- is about consuming
- is about finding information on something prescribed for you
- teaches compliance
- is scheduled at certain times
- often isolates
- is standardized
- teaches us to obtain information from certain people
- is about giving you information
- is sequential A B C D E
- promotes surface-level thinking

## LEARNING

- promotes starting with questions
- is about creating
- is about exploring your passions and interests
- is about challenging perceived norms
- can happen any time, all of the time
- is often social
- is personal
- promotes that everyone is a teacher and everyone is a learner
- is about making your own connections
- is random and non-linear
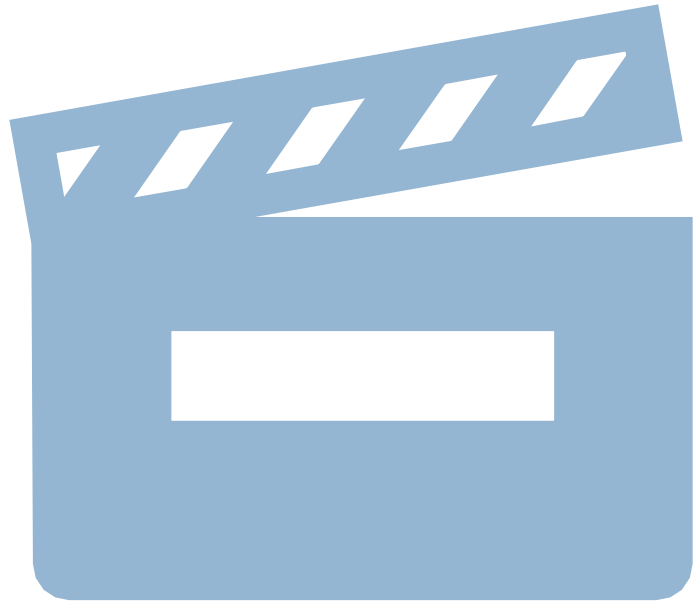- is about deep exploration

# How: Examples

- **Find the Flaw**
  - Present an incorrect "solution"
  - Houston, We Have a Problem

- **In the News**
  - Election results
  - Case studies, Clinical Trials
  - Beat the Lotto
  - Galton Board / Plinko

- **Gallery Walk**
  - Graphing
  - Probability Problems

# How: Media Outside Resources

- TED talk mini-s
  - Pixar: The math behind the movies - Tony DeRose | TED-Ed
- Commercials
  - Chantix Commercial
- Pivot – Friends

# How: Reflection

- **Learning Logs/Journals**
- **Anonymous Cards**
  - Burning questions
- **Self Assessment**
- **Elevator Pitch**
- **Today I Learned**
  - Great beginning of class activity

**Obvious to You, Amazing to Others**
( Sivers 2011)

**The Dot – Read Aloud**
(Reynolds, 2013)

# What: Resources

- Teacher Pay Teachers (https://www.teacherspayteachers.com/)

- Bingo Card Generator (https://myfreebingocards.com/bingo-card-generator)

- Major, C. H., Harris, M. S., & Zakrajsek, T. (2016). *Teaching for Learning: 101 Intentionally Designed Educational Activities to Put Students on the Path to Success.* New York, NY: Taylor & Francis.

- OnCourse workshop Best Practices (http://oncourseworkshop.com/)

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  - https://www.cbpp.org/sites/default/files/atoms/files/2017_higher_ed_8-22-17_final.pdf

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# IF YOU THINK YOU ARE "THERE," YOU ARE ALREADY FALLING BEHIND.

## (COUROS, 2015)

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