QUESTIONS TO ADDRESS

1. What is micro-learning?
2. How am I using micro-learning in my personal and professional life?
3. How can I create math micro-learning for my students?
4. What are the best ways to incorporate micro-learning in my classes?
WHAT IS MICRO-LEARNING?

- Learning in small, “bite sized” chunks (Gutierrez, 2014)
- Covers only one or very few topics
- Spaced repetition
- Usually involves multimedia and gamification
- Typically under 10 minutes
- Mobile
WHY CHOOSE MICRO-LEARNING?

• “Research has shown that we learn more (and retain it better) when we study in short focused bursts than when we’re forced to sit through hour long classes — but of course your younger self that was bored to tears at school knew that already.” (Andriotis, 2015)

• Can be completed during “dead time”
• Fun and engaging
• Often cheaper than the alternatives
**EXAMPLES OF MICRO-LEARNING**

HUGE in industry right now
- New Employee Training
  - Domino’s Pizza Maker Course via [AllenComm](#) helps employees learn the menu
    (3 micro-learning modules)
- Ongoing Employee Training
  - Google places a flyer on the back of the bathroom door!
  - Uber Technologies Inc. – Duolingo to learn English better (Kolodny, 2013)

- Young learners: [BrainPOP](#)
- All ages: [Khan Academy](#)
- All ages: [TED Ed](#)
MICRO-LEARNING IS NOT

• An hour long lecture
• Reading for a long stretch of time
• A video with no follow-up
• A long video (over 10 minutes)
• A video with too much “fluff”
• Stand alone curriculum
• Right for every kind of learning
HOW MUCH OF A MICRO-LEARNER ARE YOU?

Which of the following do you do on a regular basis?

- Read brief summaries on websites, blogs, or apps
- Get on social media to learn
- Watch a TED Talk
- Go to YouTube to learn about a single topic
- Read a “___” of the day
- Complete training for work in small increments
- Create a quick How To video for a student or coworker.
HOW CAN I CREATE MATH MICRO-LEARNING FOR MY STUDENTS?

• Videos
  - Screencastomatic.com
  - Animoto, GoAnimate, etc.
  - YouTube for cc, storing, and sharing

• Quizzes & Polls
  - PlayBuzz
  - Poll Everywhere

• PlayPosit
PLAYPOSIT DEMO TIME!

Video with embedded quiz questions!
HOW SHOULD I INCORPORATE MICRO-LEARNING IN MY CLASSES?

- Teaser/Intro
- Pretest
- As a supplement to class readings
- Review
- Pairs great with Competency Based Education (CBE)!
QUESTIONS?

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REFERENCES

