Flipping 101: An introduction to flipped classrooms

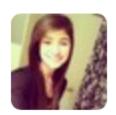




Julie Schell Sr. Educational Research Associate Mazur Group, Harvard University







<u>LundenStallings</u> @livestrong_1

Feb 25

I was having a pretty good night, until I realized i gotta get up for prison in the morning ##ihateschool

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RETWEETS

FAVORITES



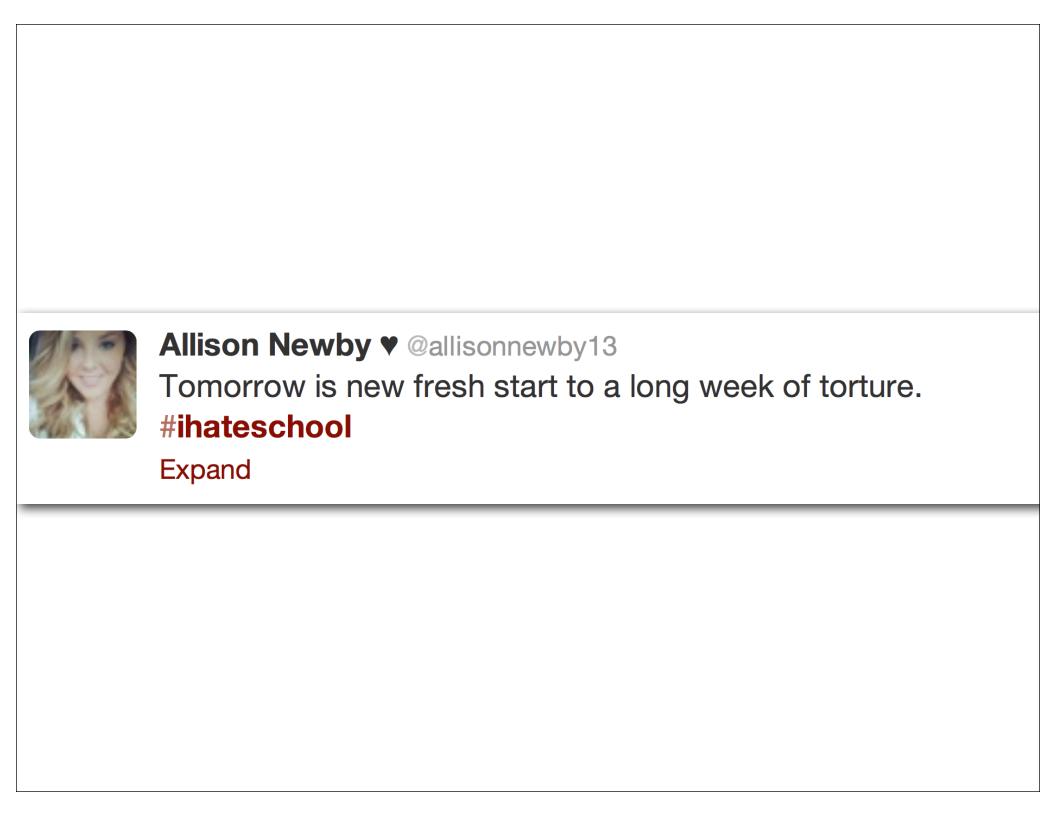


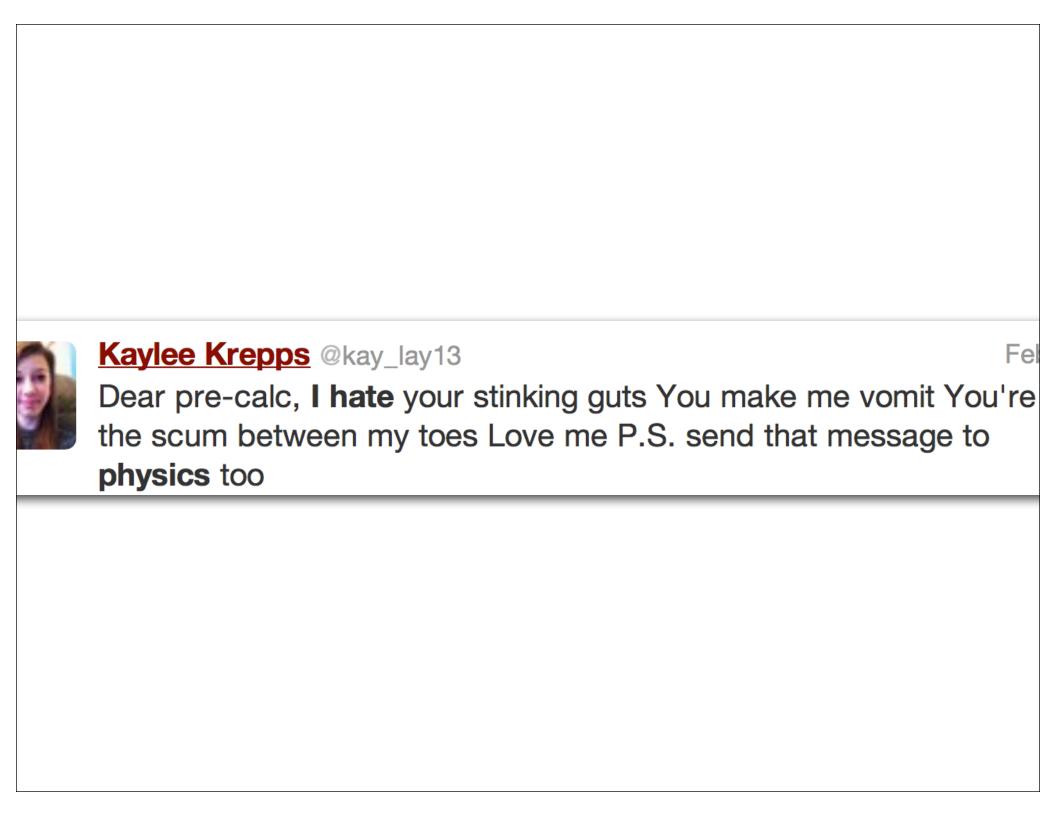


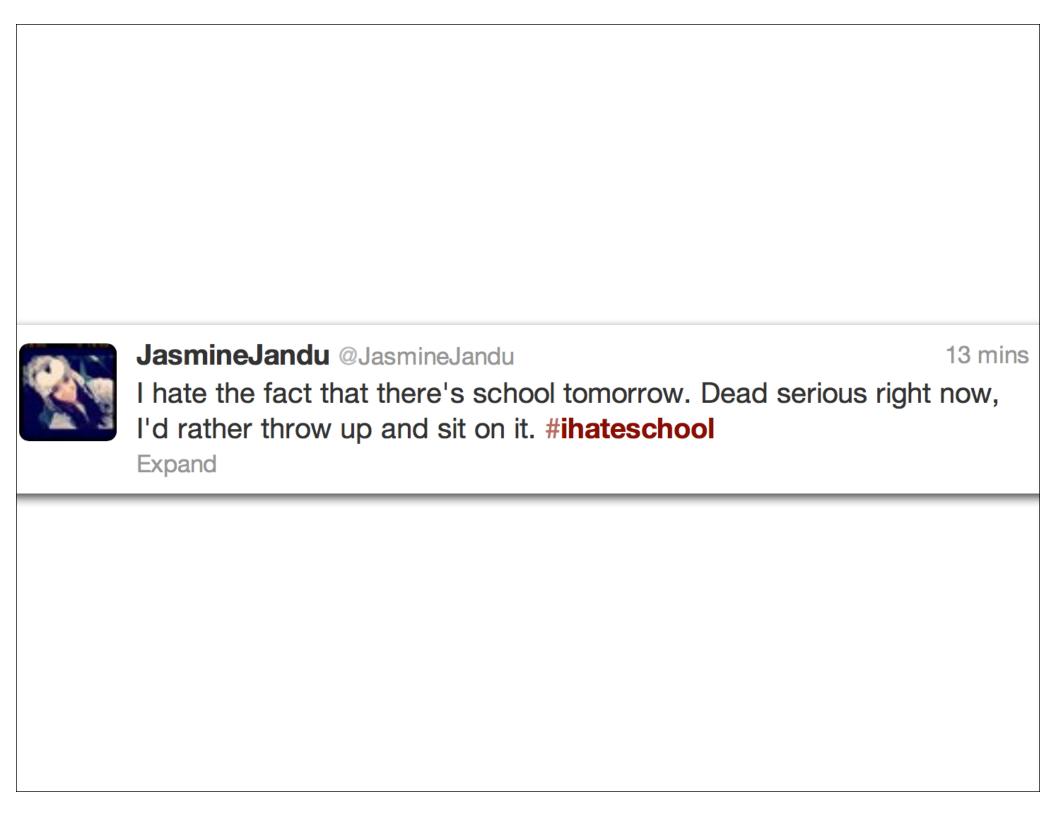


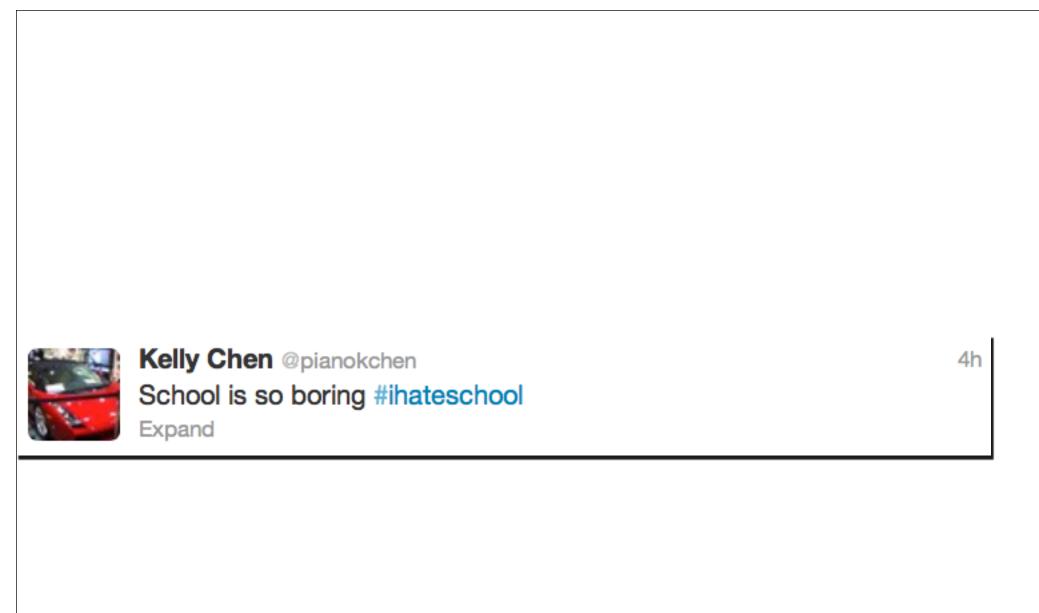


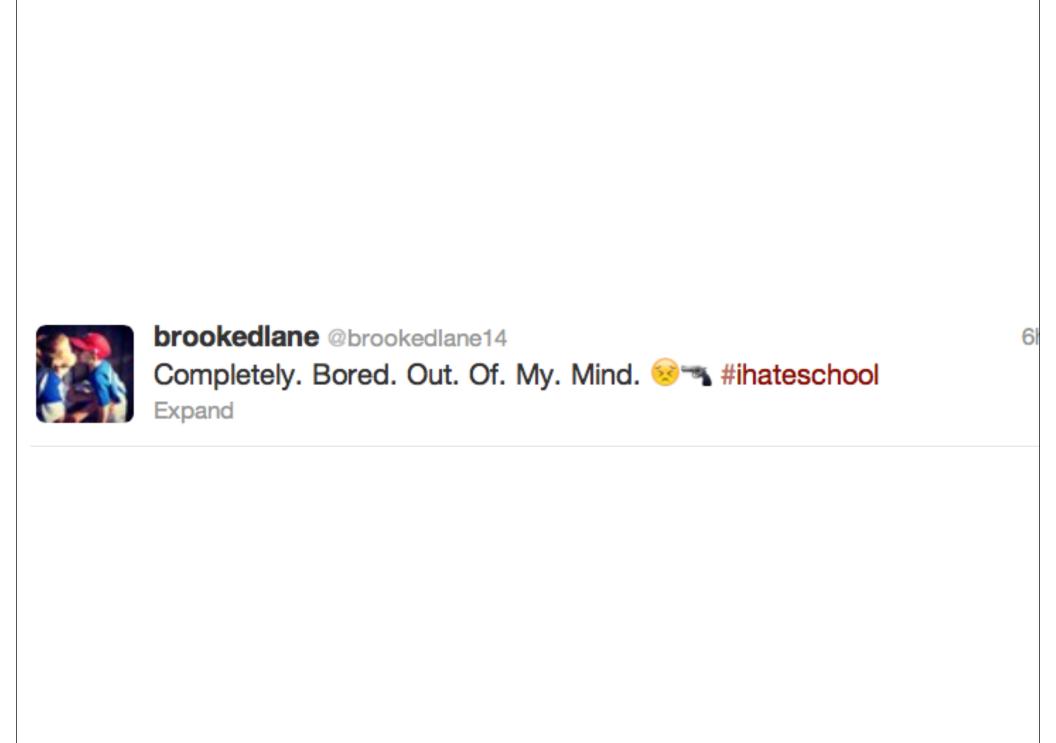


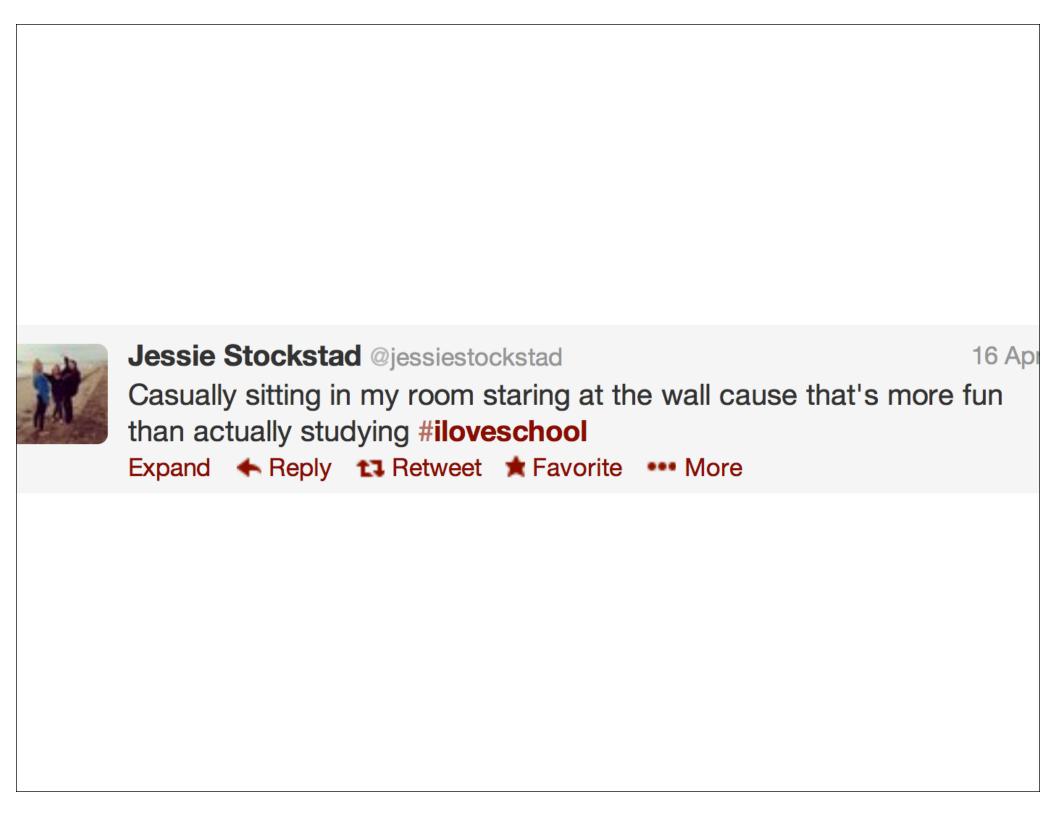














★Lexie ★ ☆ ②XxL_weeezyxX

17 Mar

History = there dead dude.

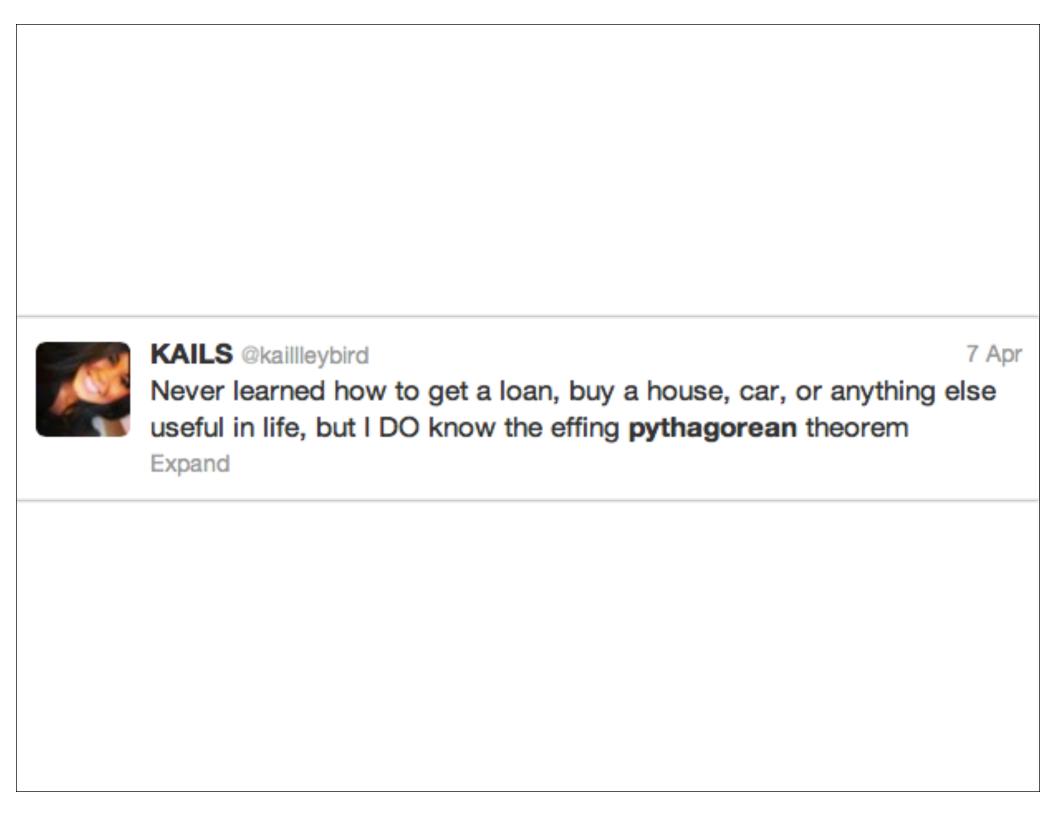
English = dictionary/ google.

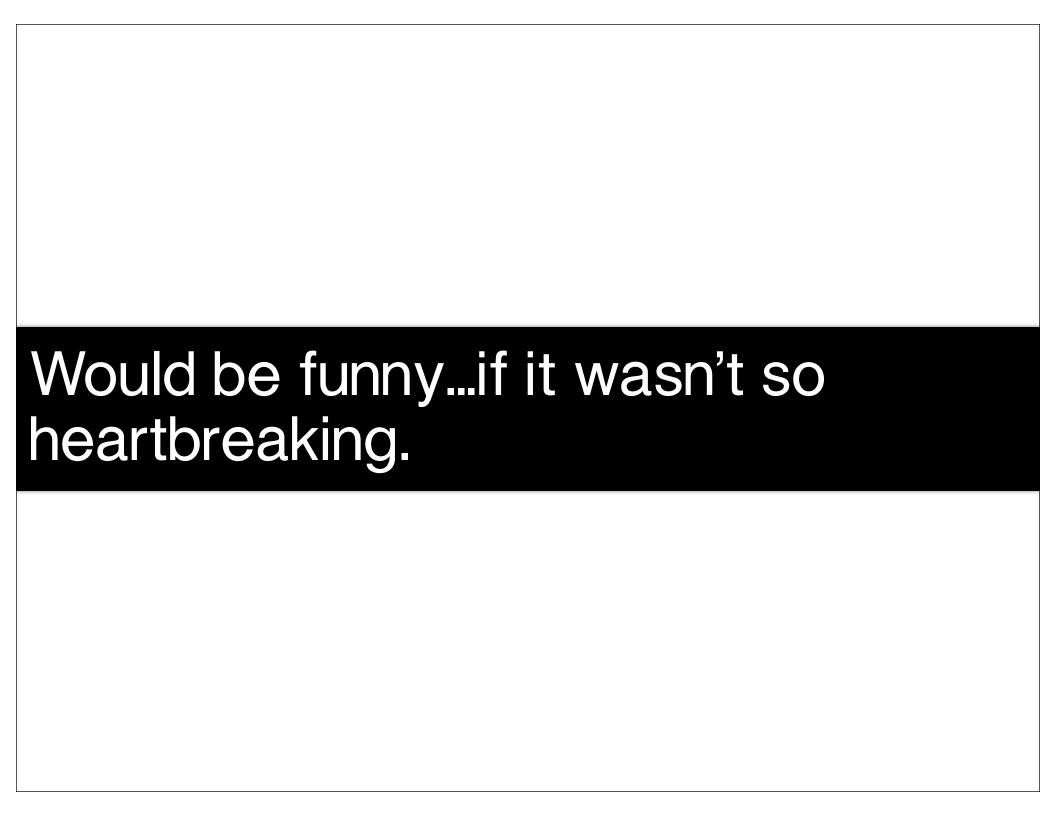
Science = not a nerd. Don't need it.

Math= calculator.

#ihateschool #die

Expand







- no ON/OFF button
- •only last "click counts"
- displays recorded answer
- •ID on back

What #hashtag best describes your schooling experience...

- a. #ihateschool
- b. #iloveschool*(really)
- c. #schoolisboring
- d. #schoolisnotpractical
- e. #other





10,800

Q. What keeps you up at hight?

Q. What keeps you up at right? Syracuse Nothing.

a. What kee Students are inattentive and distracted by social media. Nothing. Syracuse/

Q. What A inter Q. What keeps you injust? up at hight? Leeping my students subject in the subject interested in the Syracuse Syracu

Q. What How can / moss.

Q. What keeps you ight? Q. What keeps you Conveying the idea to the up at night? Students efficiently and Successfully. Syracu

that keeps you Q. What keeps you up at night? How Wot being prepared, students not learning. Syracuse

Q. What How Can / moti.

Q. What keeps you

Q. what leeps you

up at night?

up at high leeps you How to engage my students up 9/ nigh/> Chile

Q. What up at my How can / motion.

Q. What keeps you

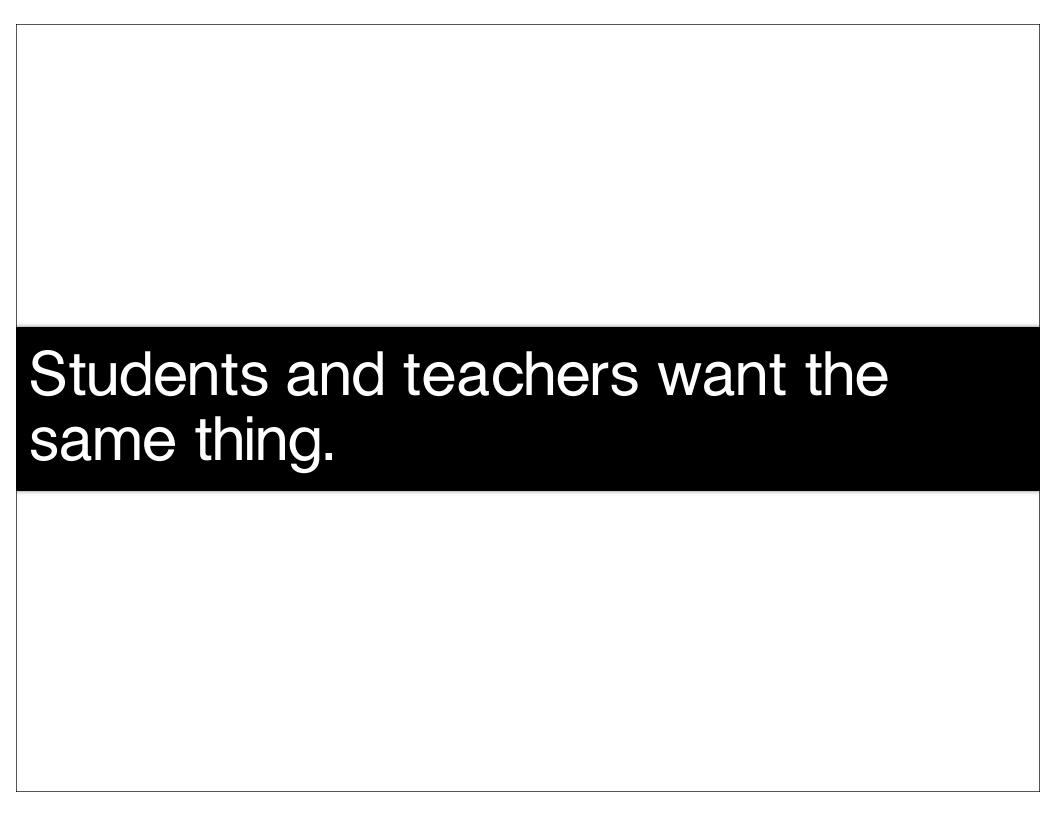
Q. What keeps you

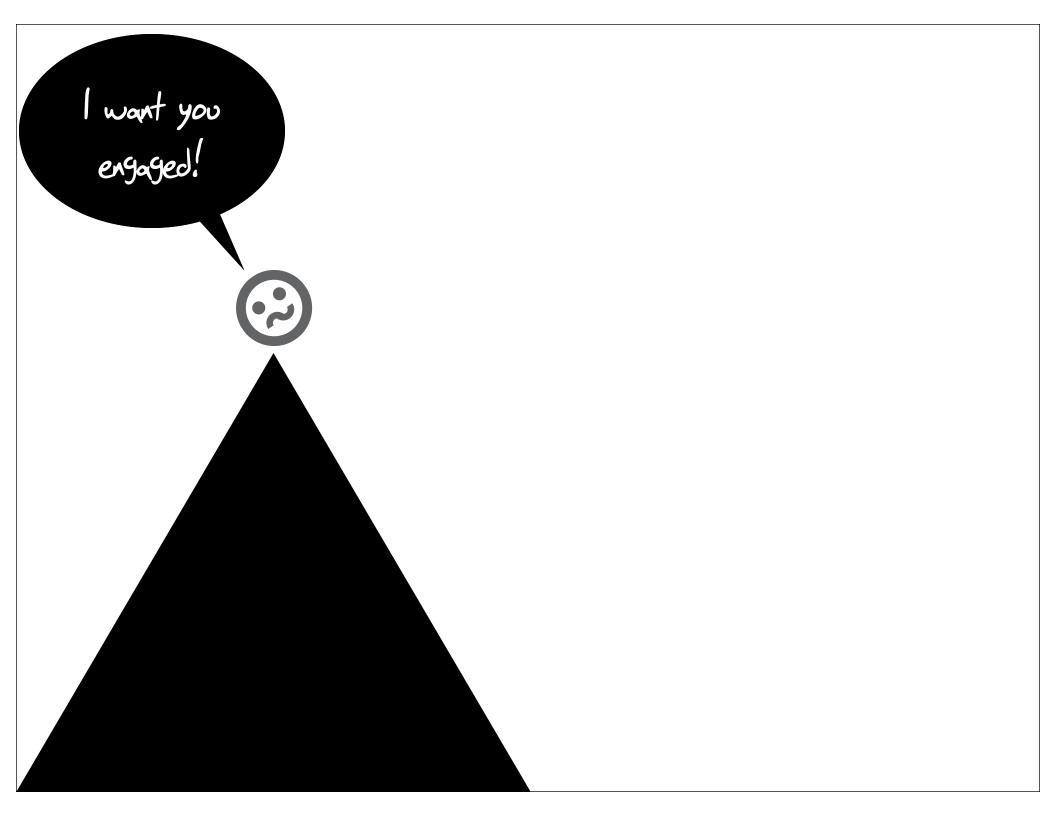
up at night? Desinteresse!! Brazil

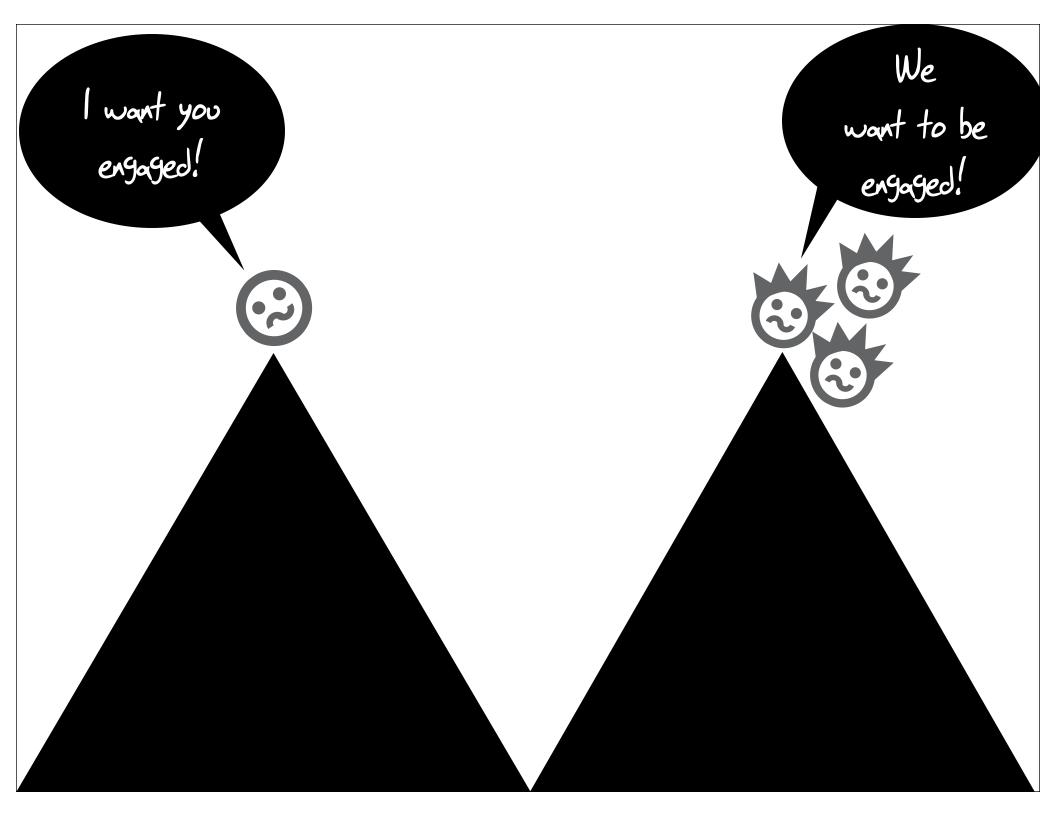
La Q. What reeps you up at hight? How borney I am & how little student.

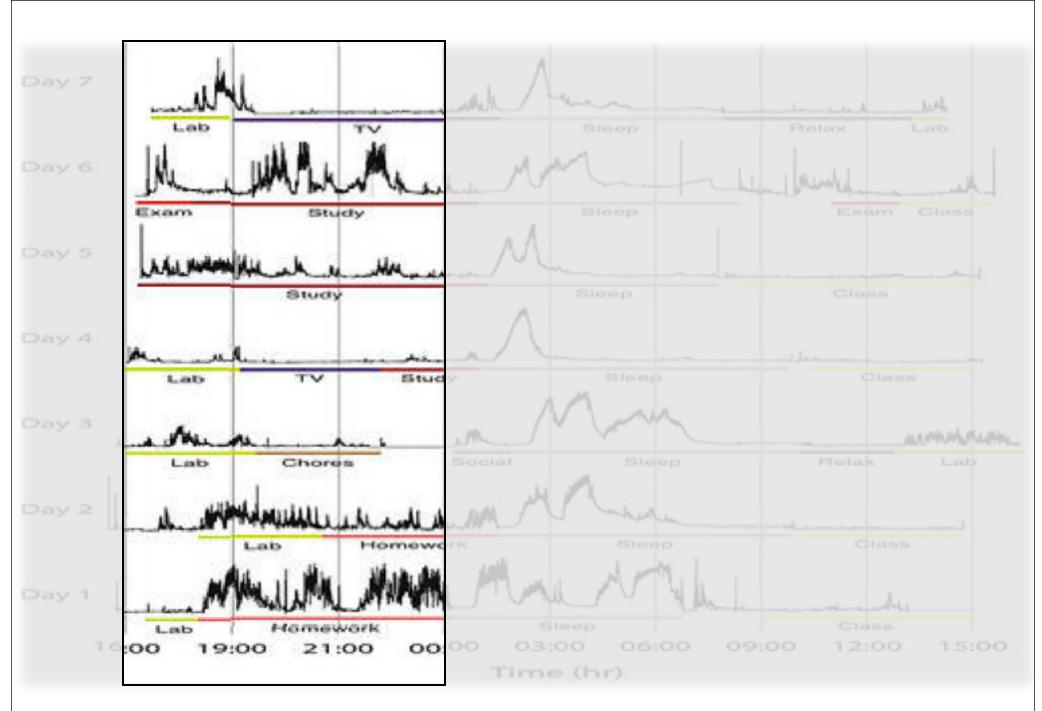
How borney I am & how the student.

Will be retained by the student. 12e

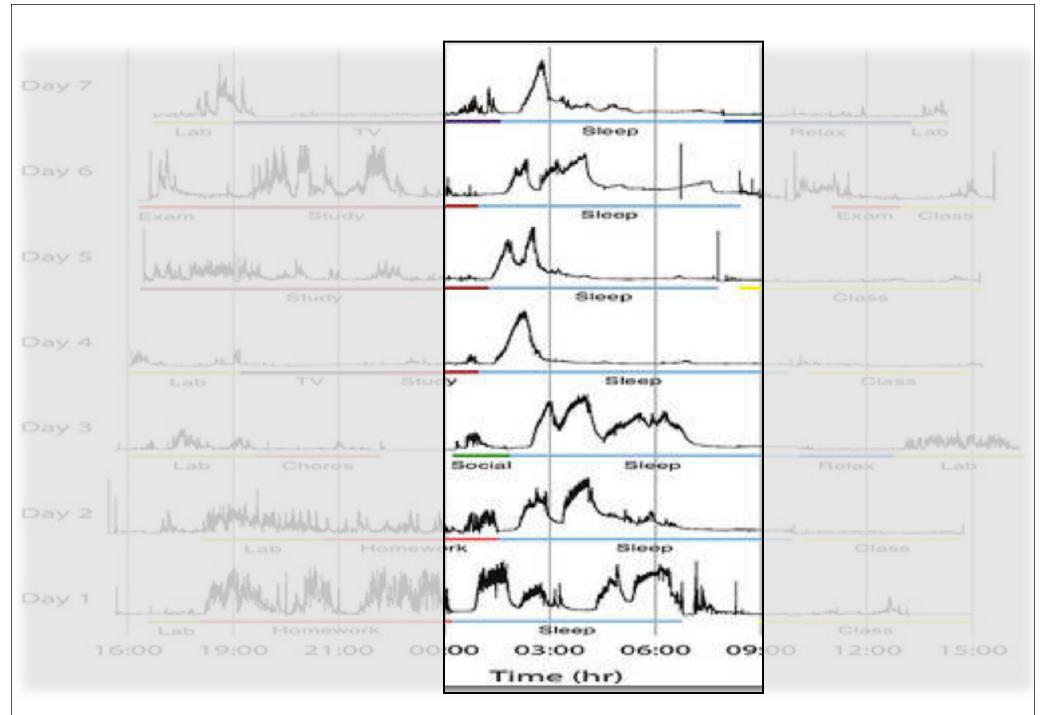




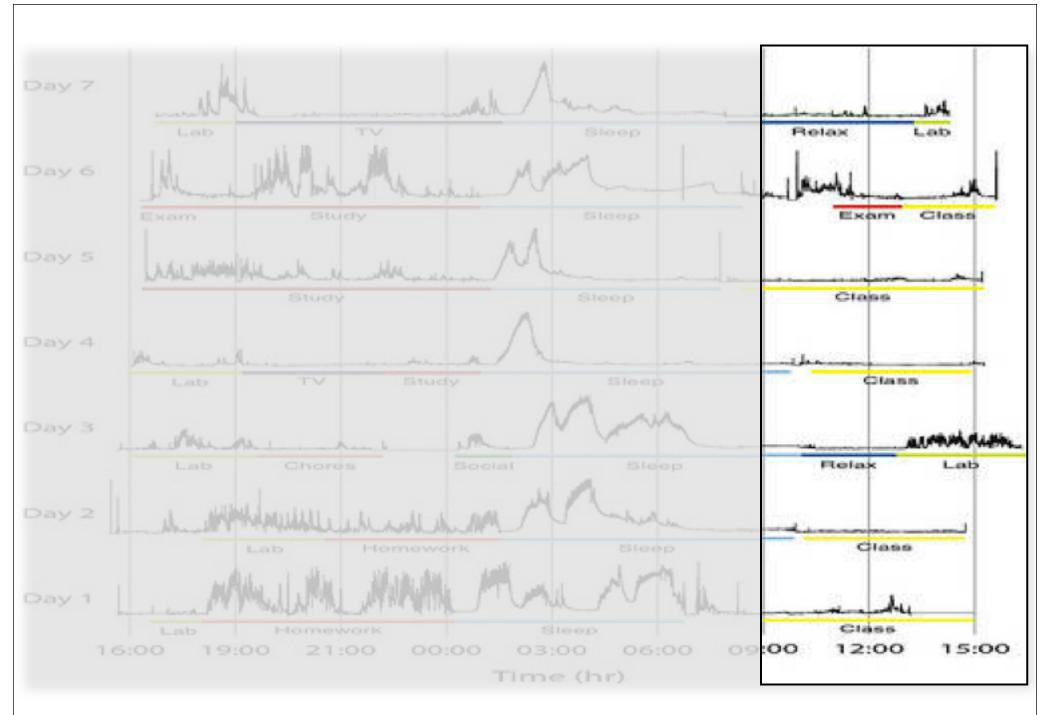




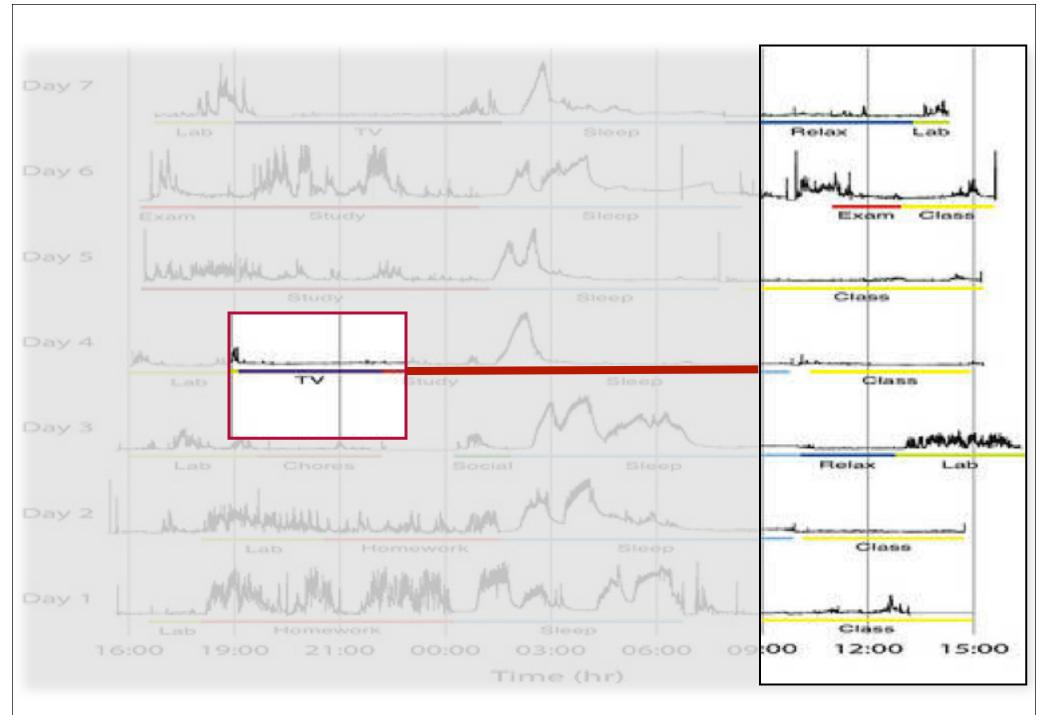
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 57, NO. 5, MAY 2010



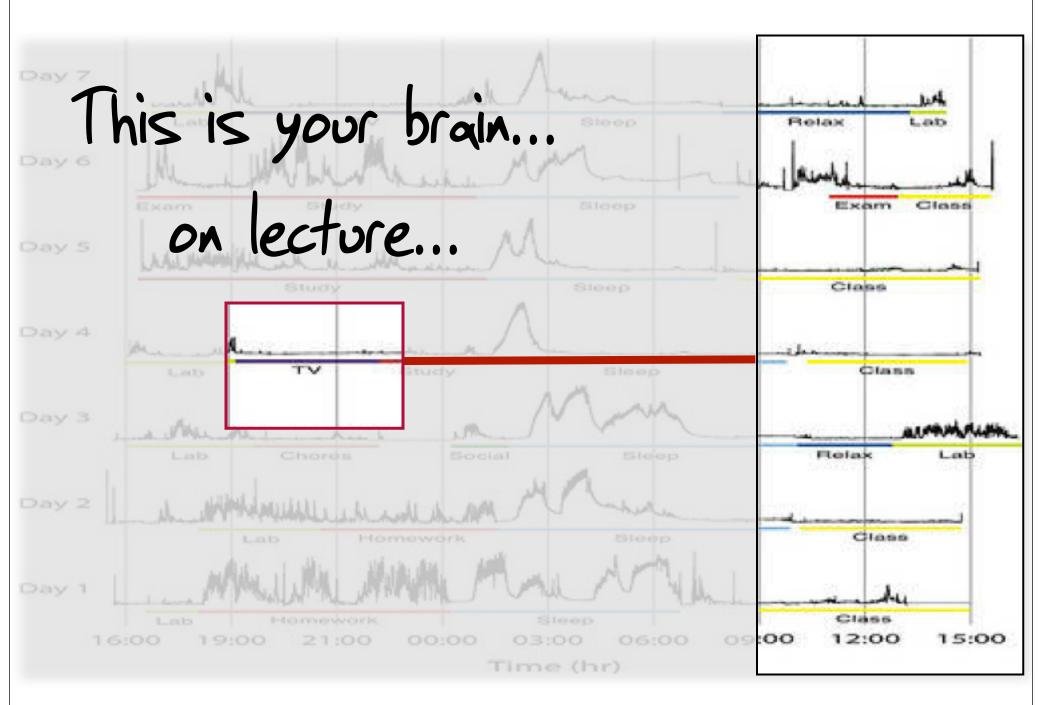
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 57, NO. 5, MAY 2010



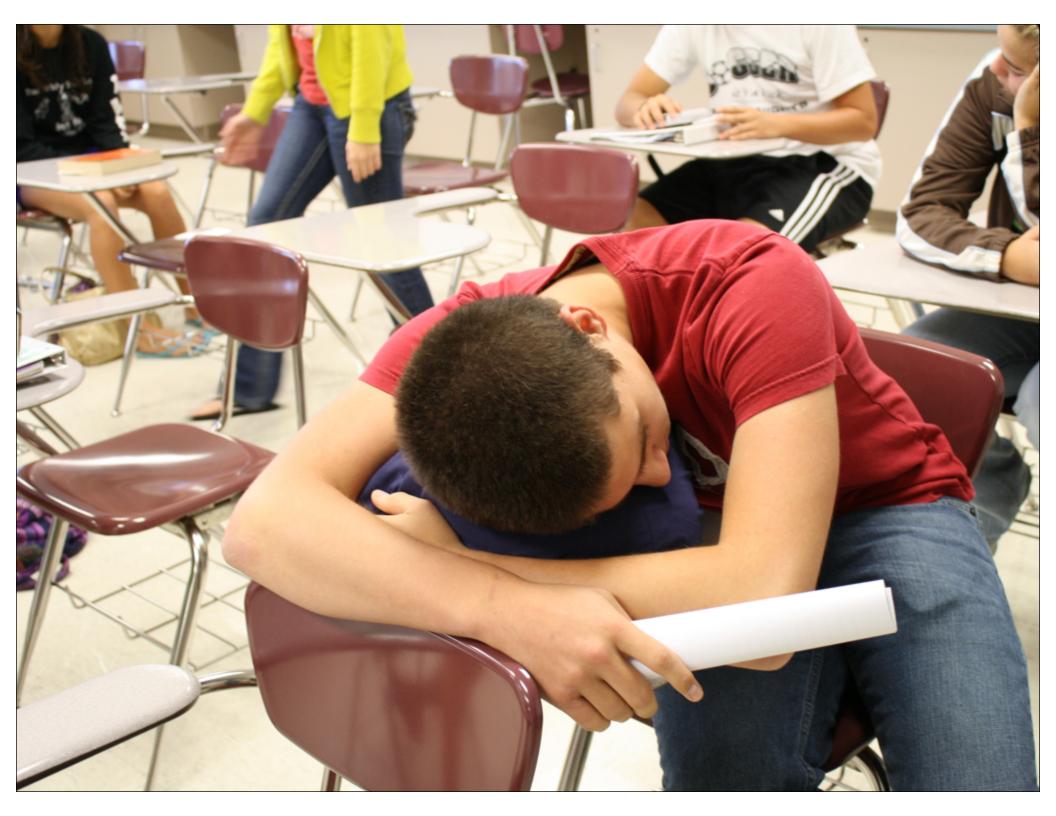
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IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 57, NO. 5, MAY 2010





Education doesn't have to be this way.

What's going on in this classroom?

- a. teacher left the room
- b. talking about dating
- c. working on a physics problem
- d. this isn't a classroom it's a party

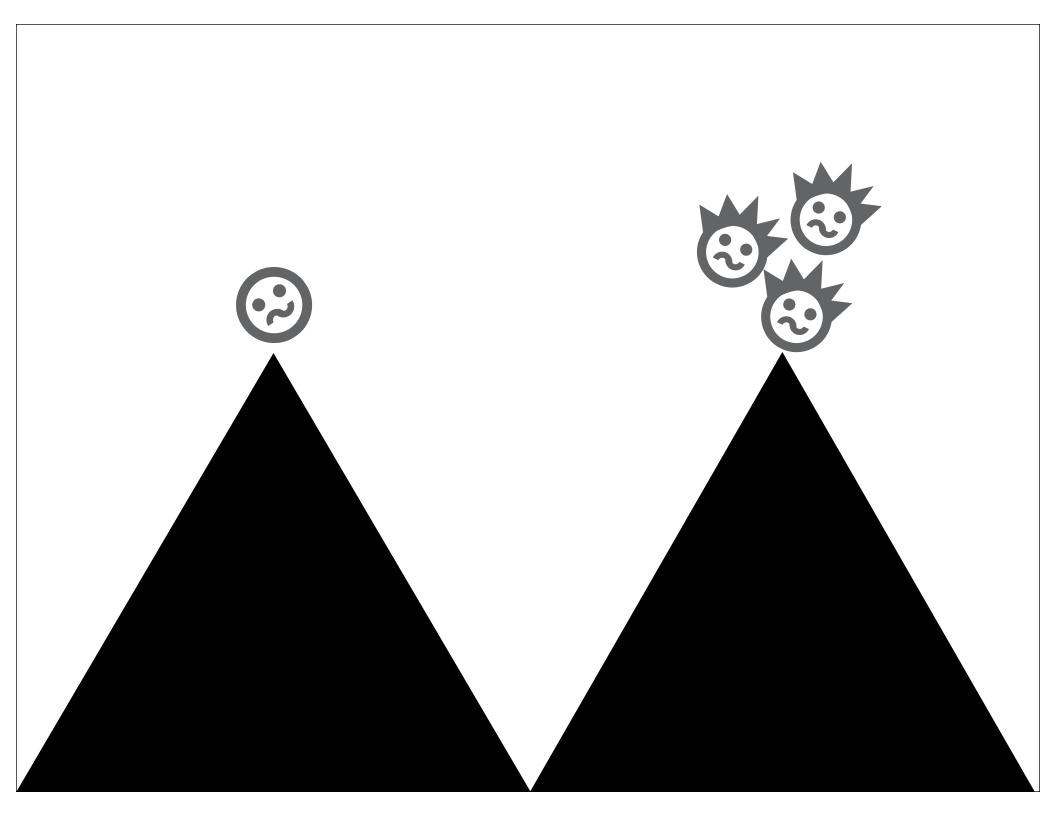


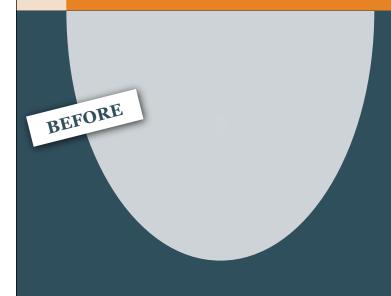
What's going on in this classroom?

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Bridge the gap.









Students prepare to participate in class activities





Students prepare to participate in class activities

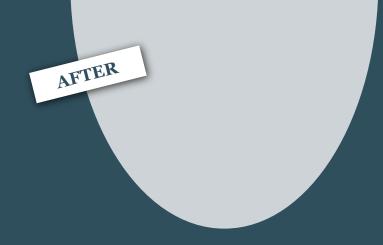


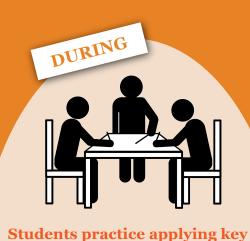


Students practice applying key concepts with feedback

Students prepare to participate in class activities







concepts with feedback

Students prepare to participate in class activities



Students check their understanding and extend their learning

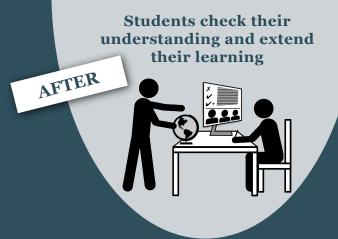


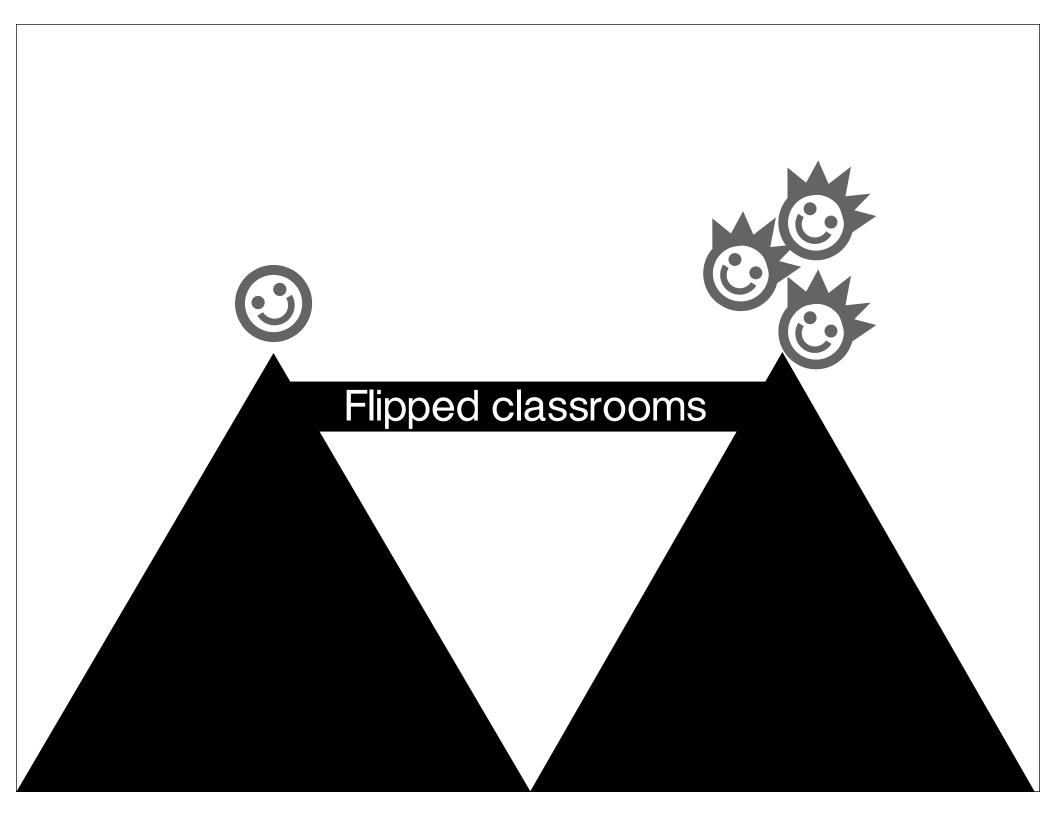
In Class

Students prepare to participate in class activities



Out of Class





Based on this definition, do you think you are already flipping your class?

a. yes

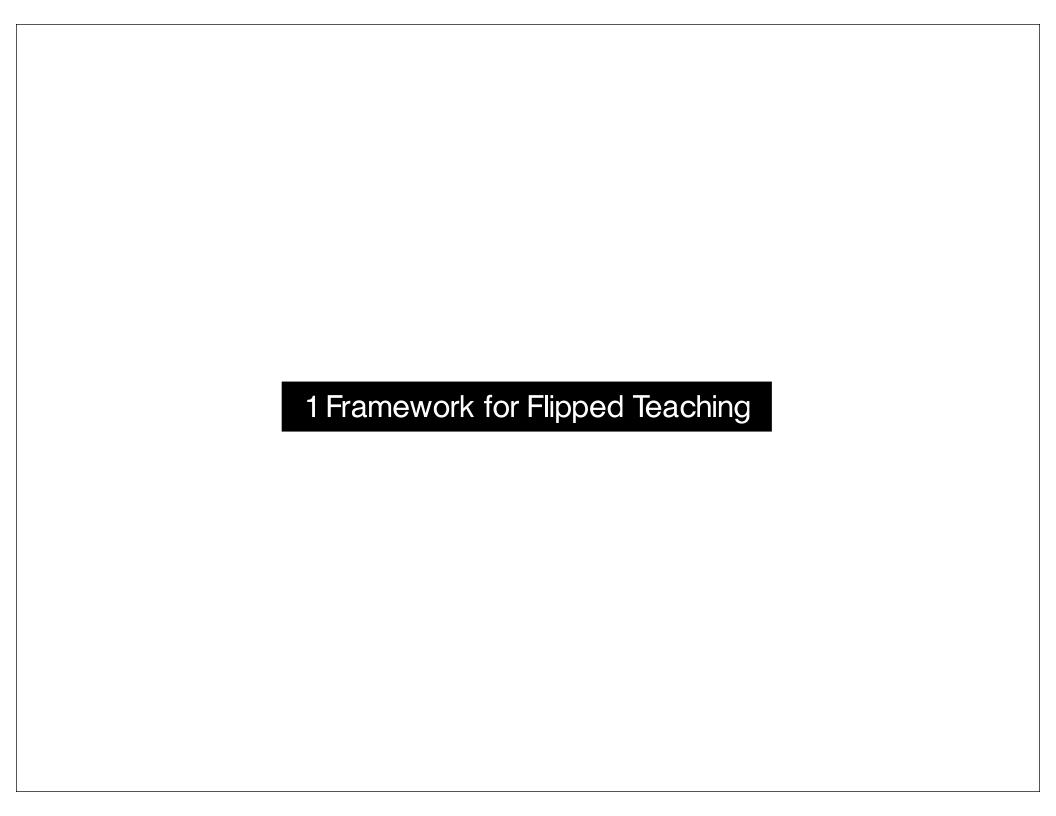
b. no

c. not sure

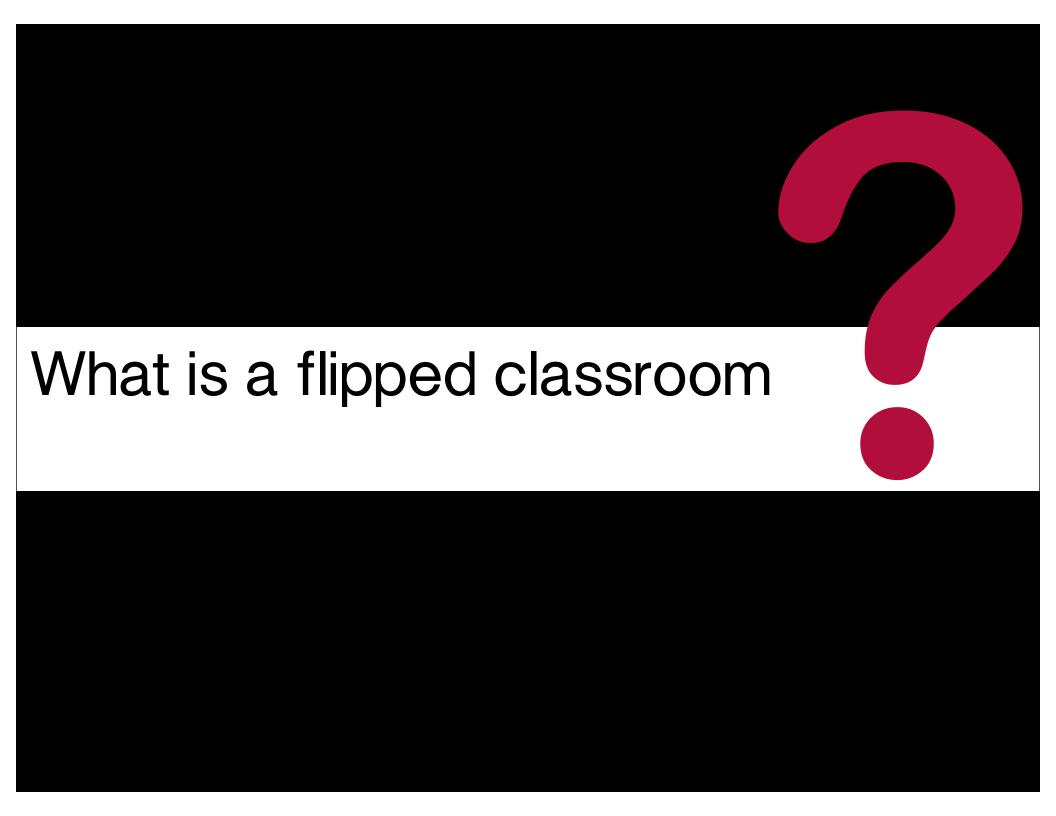
Goals for today...

- 3 Essential Questions
- 8 Big Ideas
 - 2 Key Characteristics
- + 1 Call to action

14 takeaways=



3 essential questions



Can flipping be used in one section of course rather than the entire course?

A. Yes

B. No

C. Not sure but look forward to finding out

You can flip one concept or 10.

2

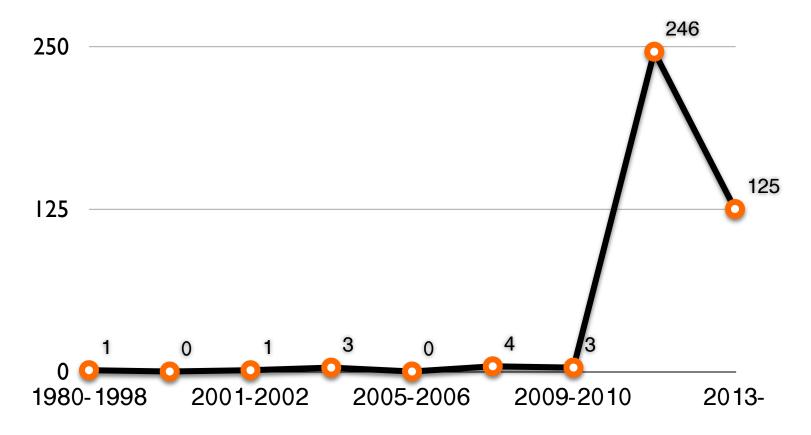
Flipped classrooms are the latest edutrend.

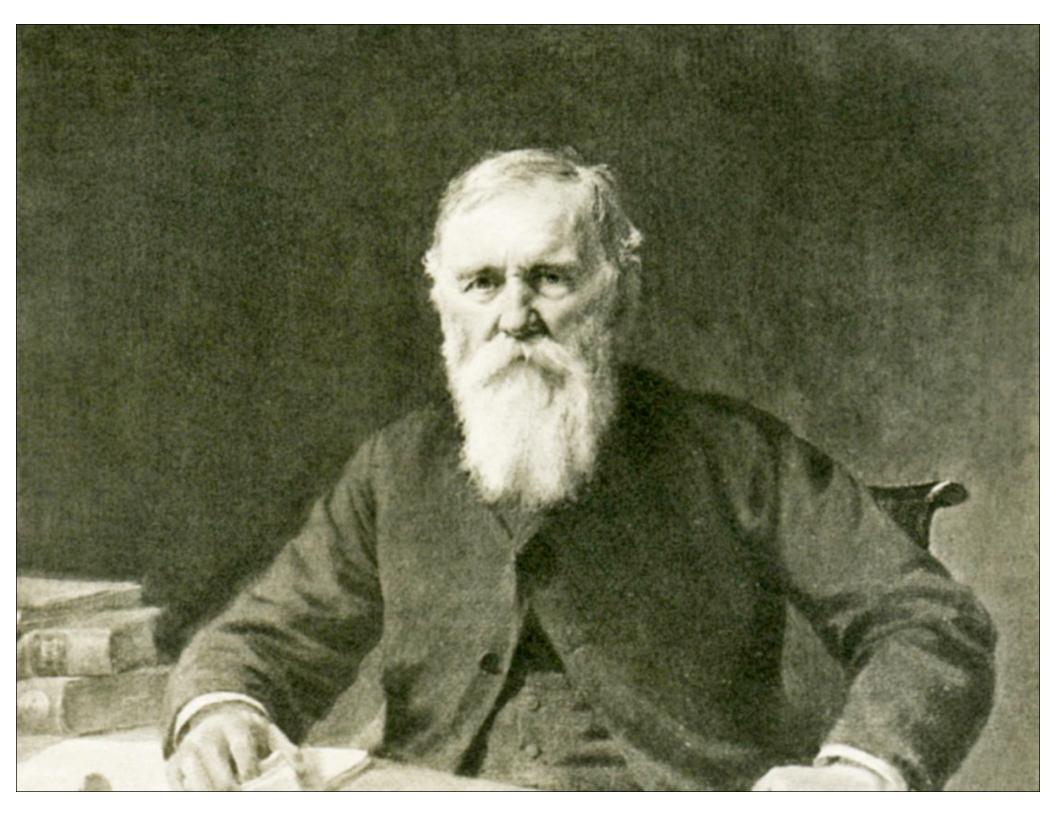
A. True

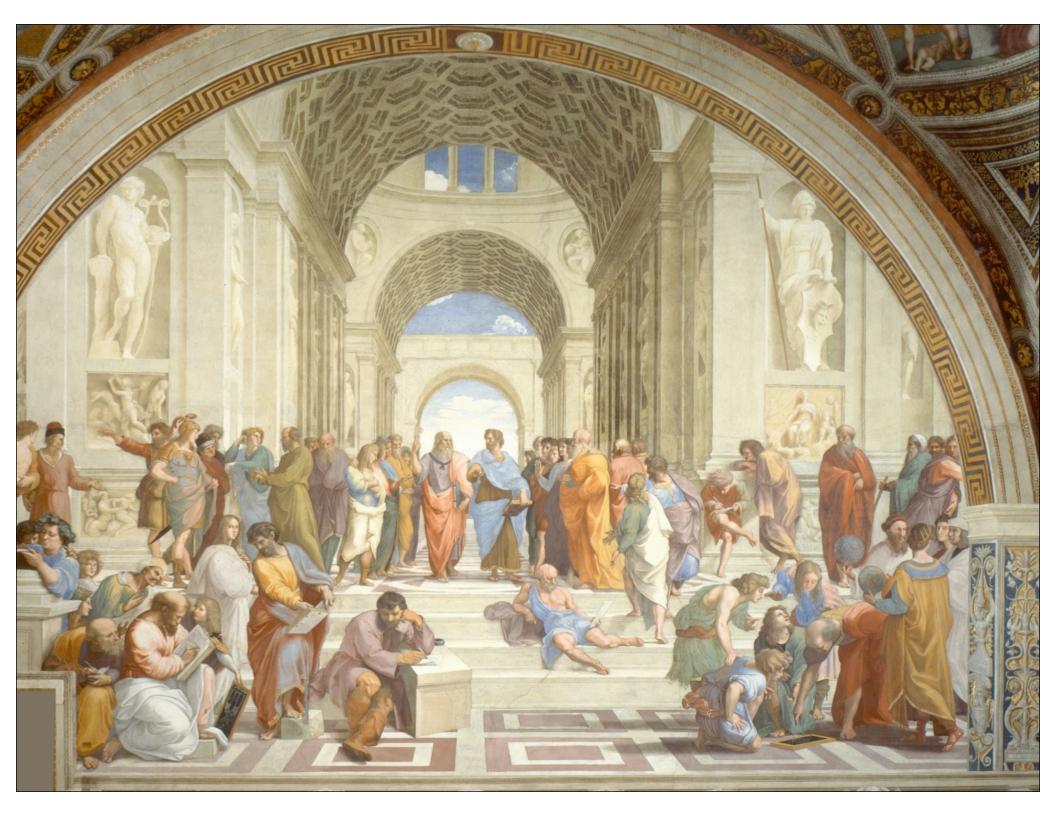
B. False

C. Not sure

Number of Google Scholar Hits for "flipped classroom"







(2)

The term is new, but the idea is not.

"Given that students are asked to evaluate us as instructors, how do you avoid giving the impression that you are largely absent in a flipped class?" 3

Flipped classrooms will gradually replace faculty with computers.

A. True

B. False

C. Not sure





3

Replaces sage on the stage with a guide on side.

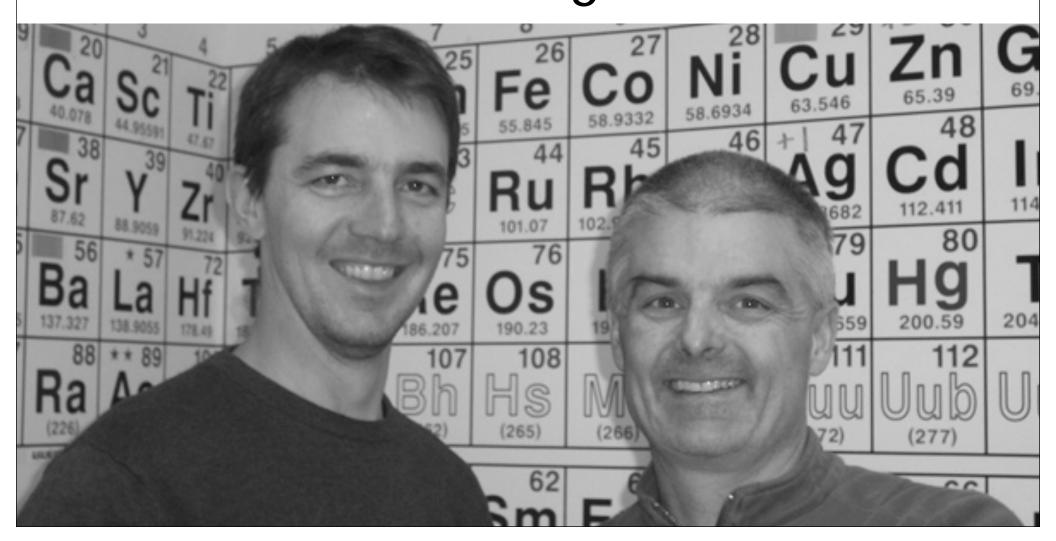
Students not having access to the Internet is a major barrier in a flipped class.

A. True

B. False

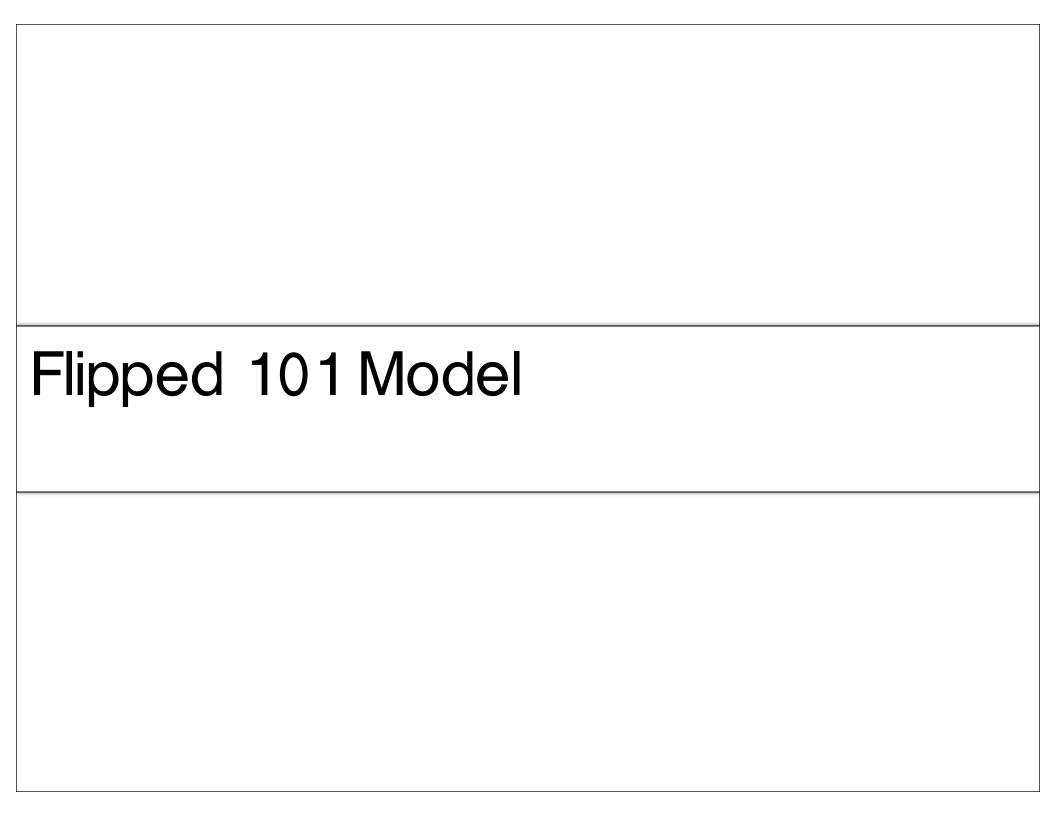
C. Not sure

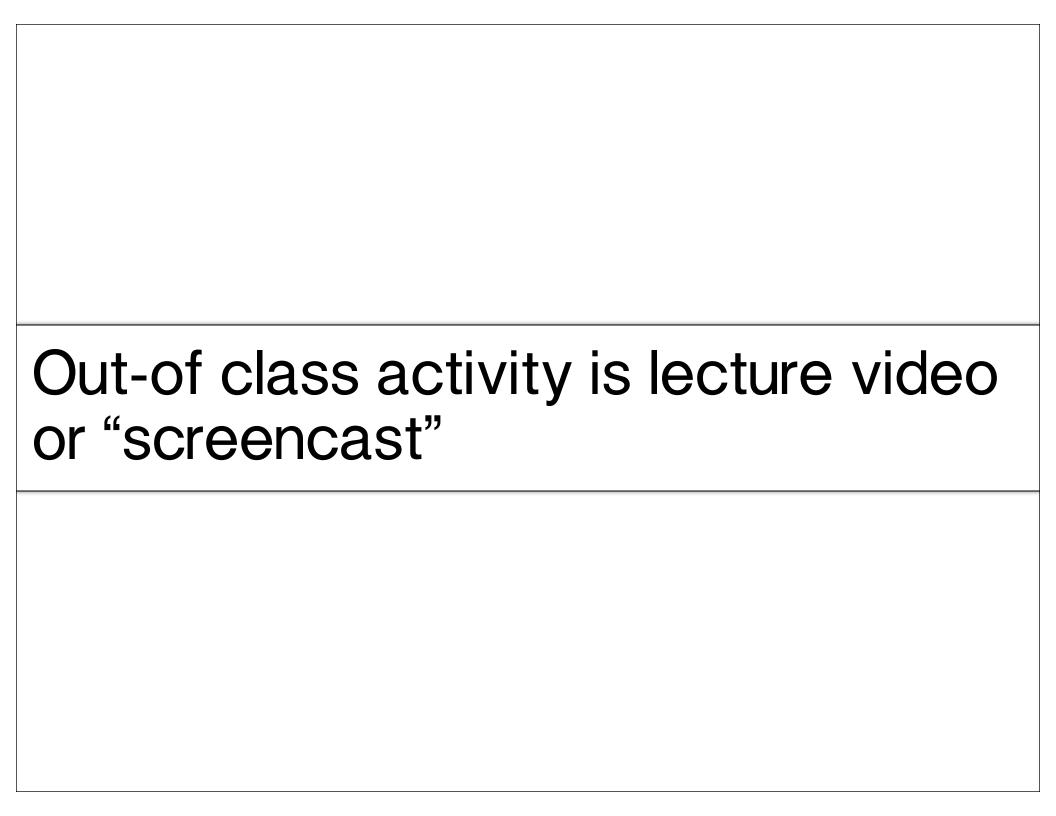
"Flipping the classroom is...[a] mindset redirecting attention away from the teacher and putting attention on the learner and the learning."

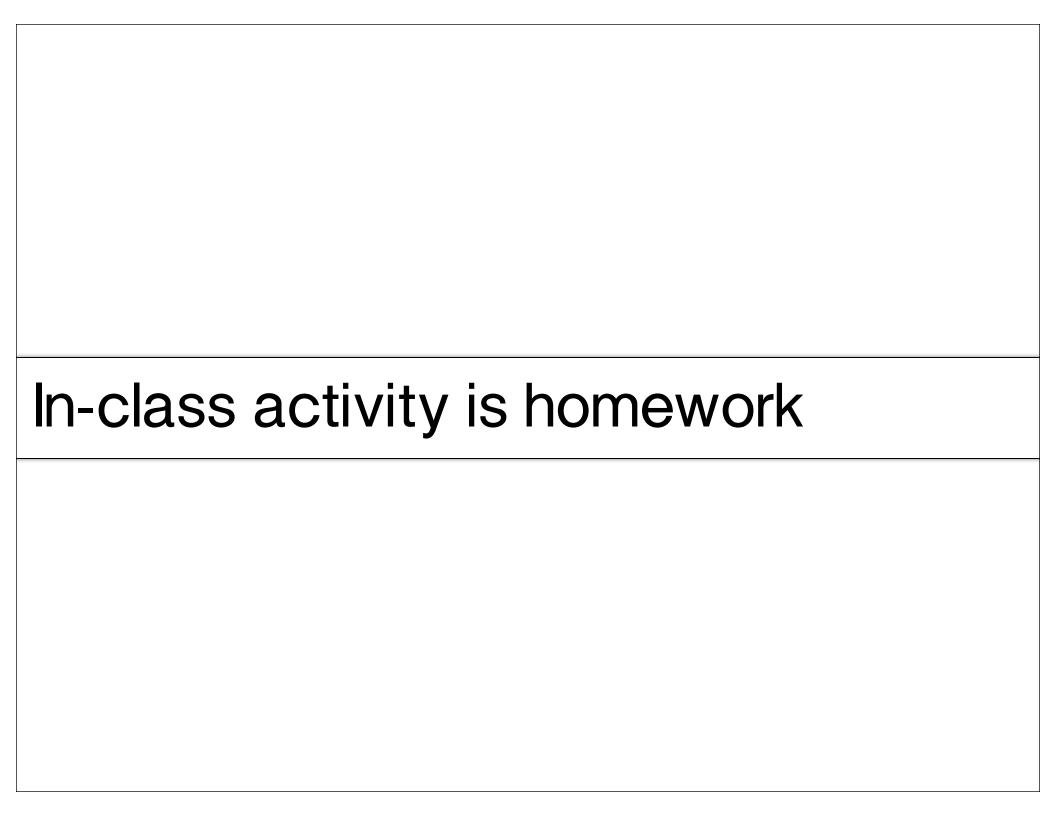


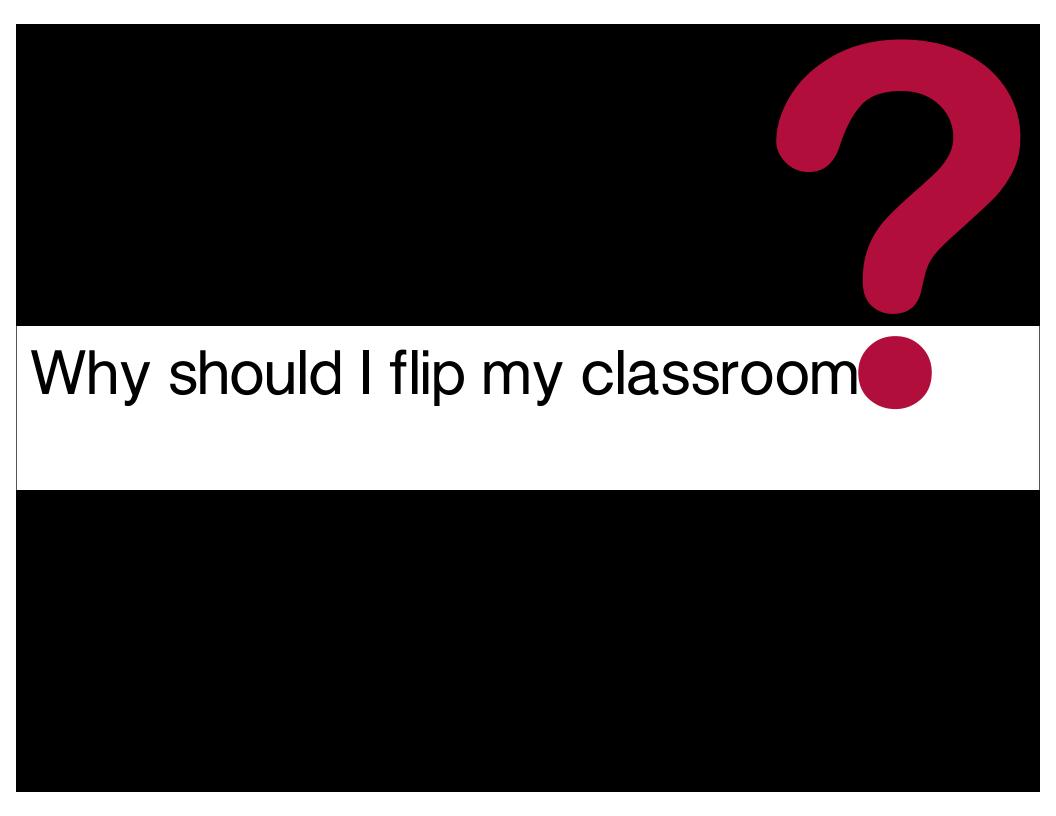
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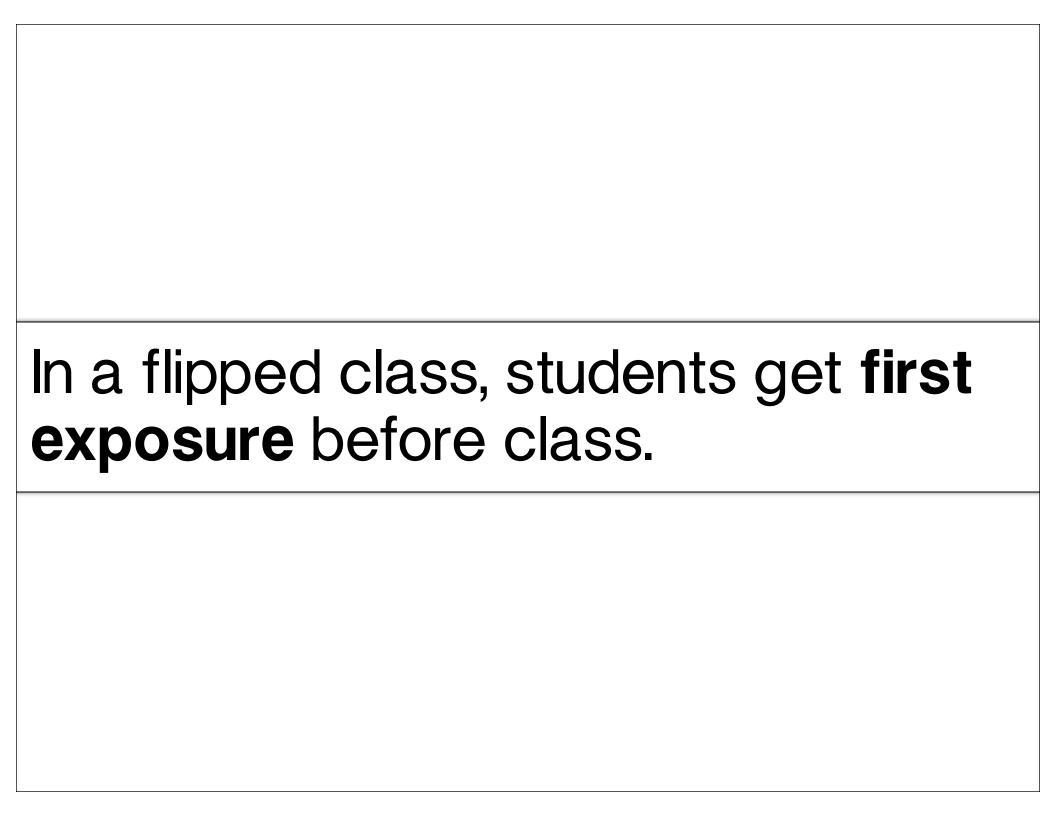
Flipped classrooms are about pedagogy not technology.

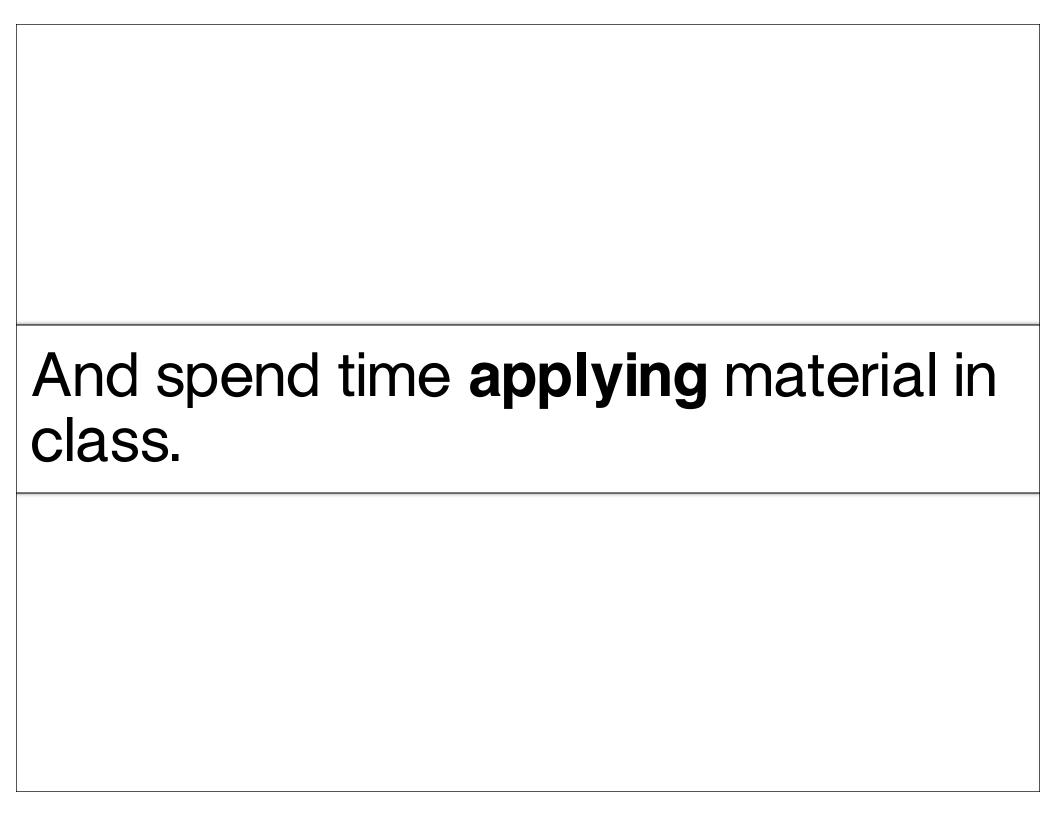


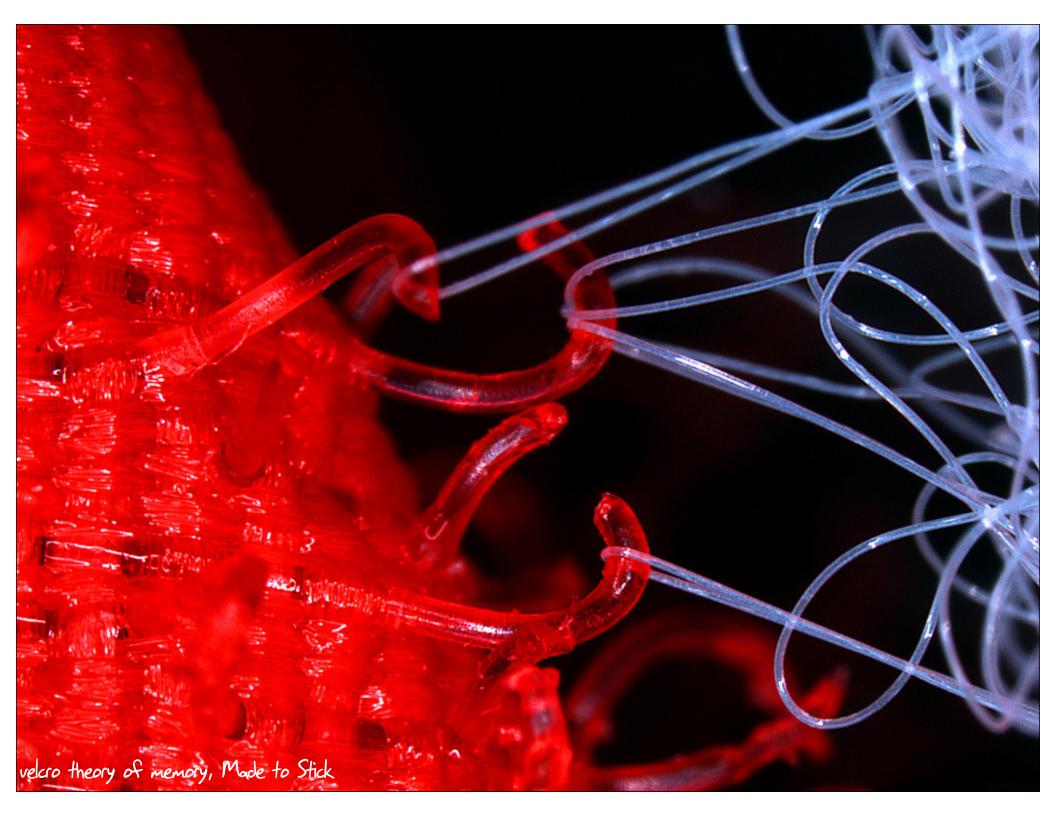












Students will love not having lecture in class.

A. True

B. False

You should tell students you are flipping your classroom.

A. True

B. False



Sarah Forthun @sarahforthunn yeah this flipped classroom thing is bullshit Expand ♠ Reply ♣ Retweet ★ Favorite ••• More

•

@tayloo0r
 fu this flipped class bullshit
 Expand

Rh

Students will resist flipped learning.

Students will resist learning.



Flipped classrooms means no more lecture.

A. True

B. False

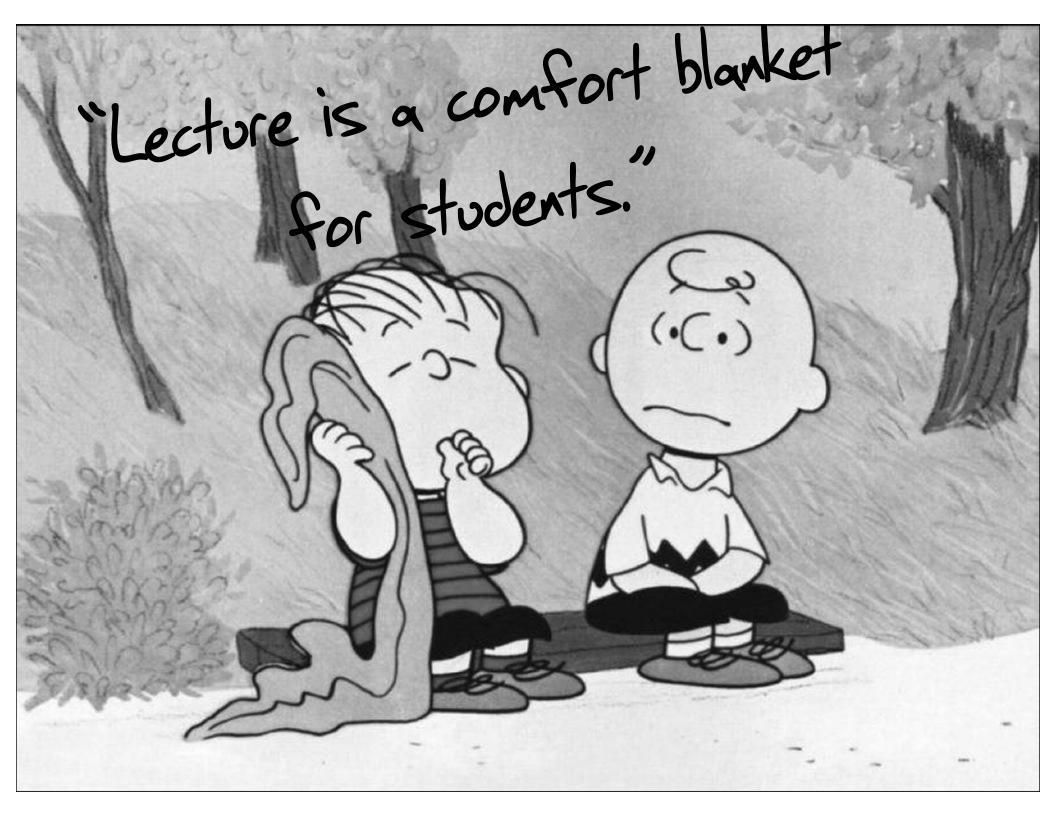
Students want to be spoon

Students want to be spoon

Students want to be spoon

Fed so they don't have to

Think about it. Syracuse

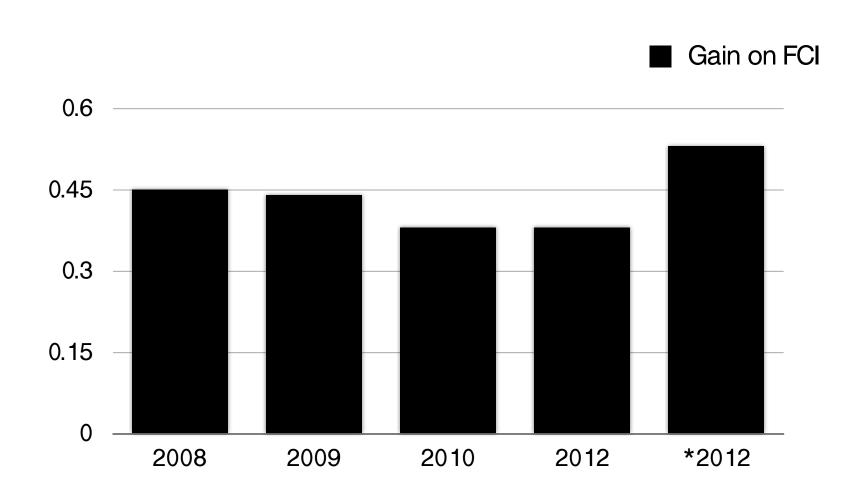


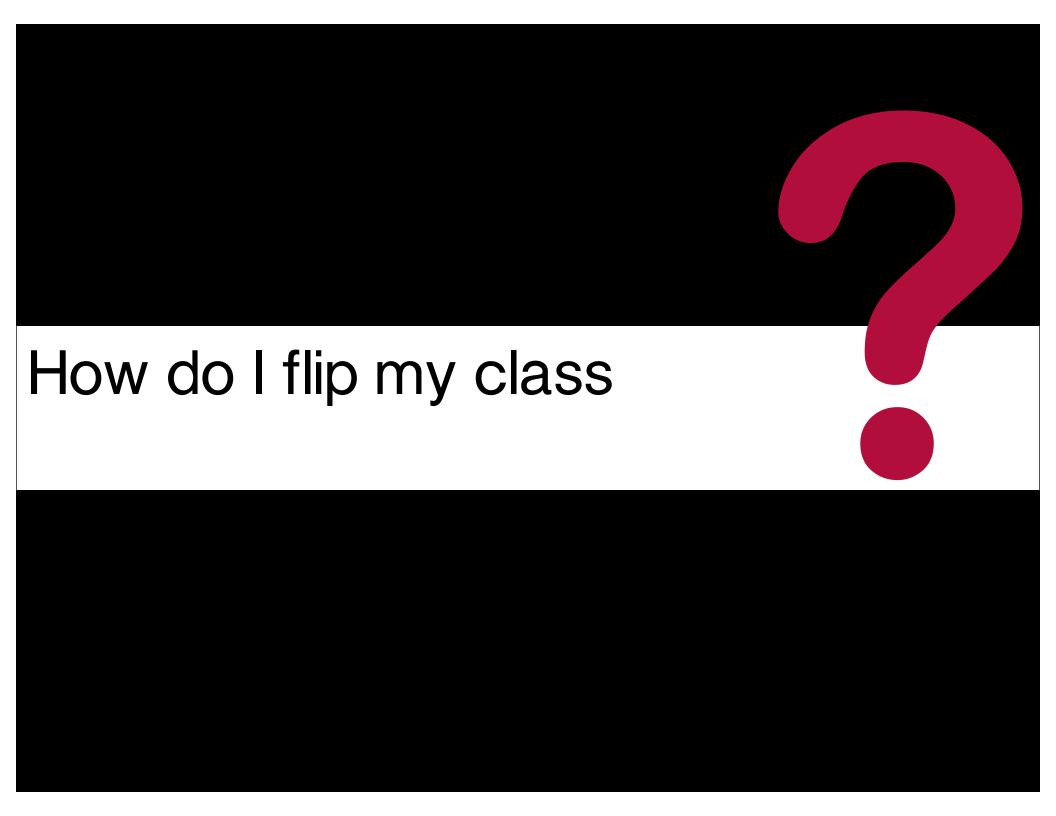
You can lecture a little, it might help with student resistance.

Any proven effectiveness of the technique in undergraduate engineering courses? Syracuse



Normalized Gain on FCI, Class Averages

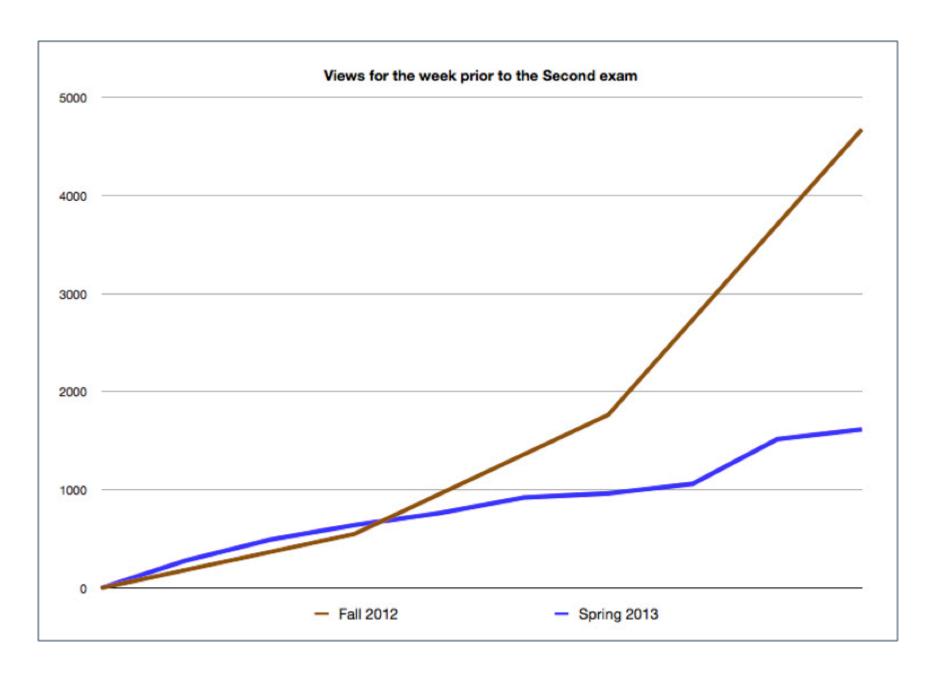




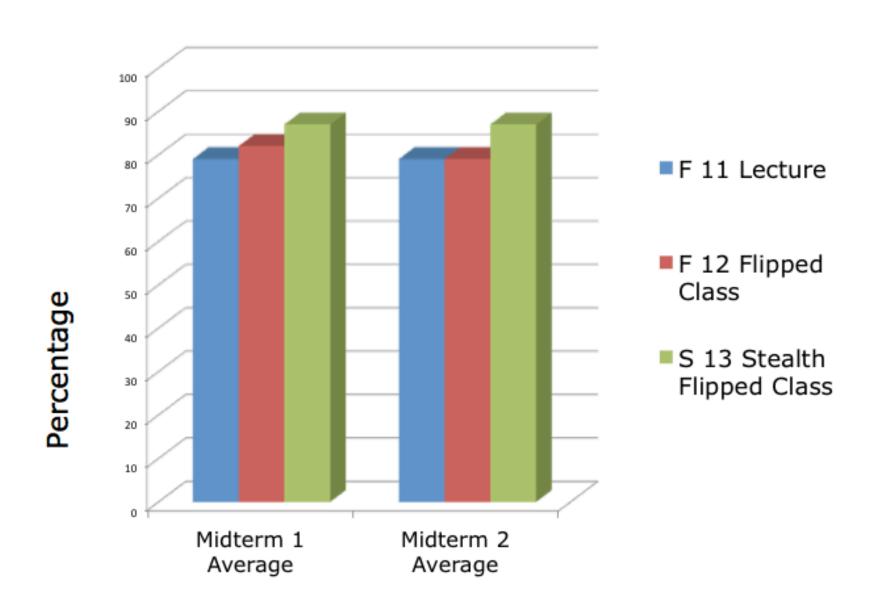
My students will not do out-of-class work, even with credit for doing so.

A. True

B. False



Graph courtesy of @jenebbeler



Graph courtesy of @jenebbeler

Formula: 9 quizzes, some lecture, no mention of the world flipped.





If you assess it, they will come.

You should create your own content for out of-class activities.

A. True

B. False

Ted-Ed

Flip your class with proven methods

LESSON CREATED BY JULIE SCHELL USING TEDED Beta

VIDEO FROM BokCenter YOUTUBE CHANNEL.

Let's Begin...

What is a flipped classroom, anyway? In a traditional flipped class, teachers capture lectures on video students view those videos as "homework." In class, instructors help students apply concepts learned at home and guide more complex work, rather than lecturing. Peer Instruction, developed by Eric Mazur at Harvard University is one way to do something innovative with your flip.



Watch

Think

Dig Deeper

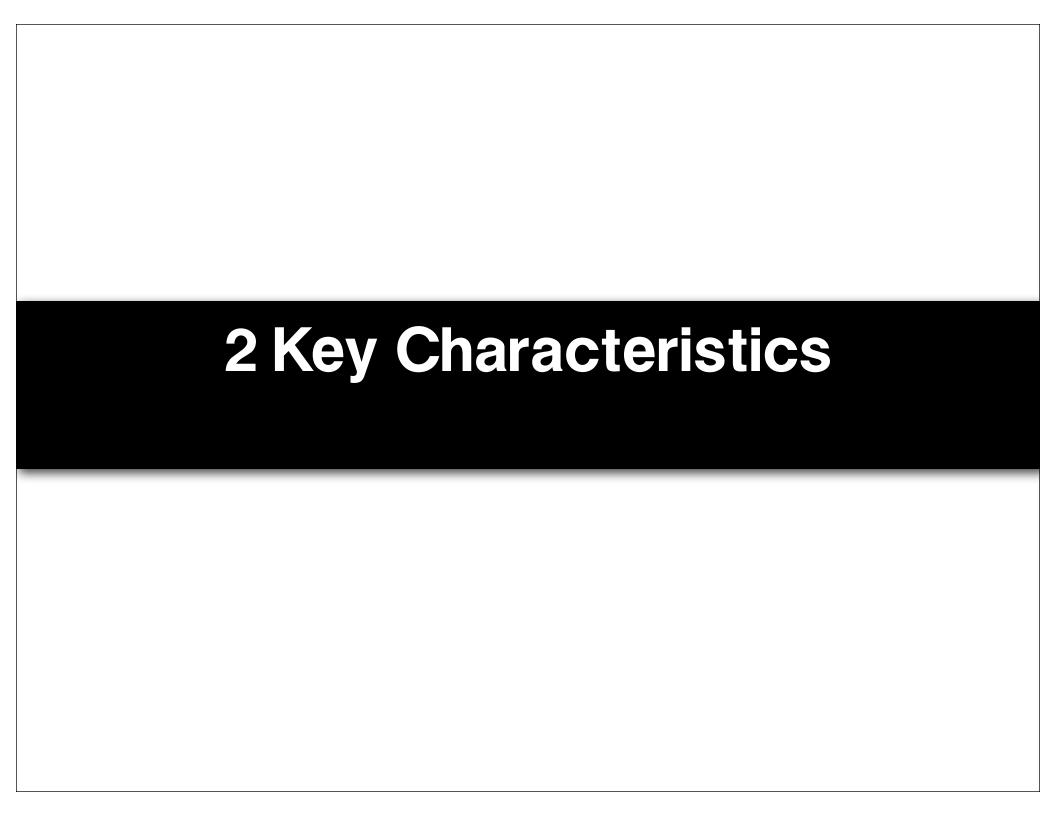
Discuss

...And Finally



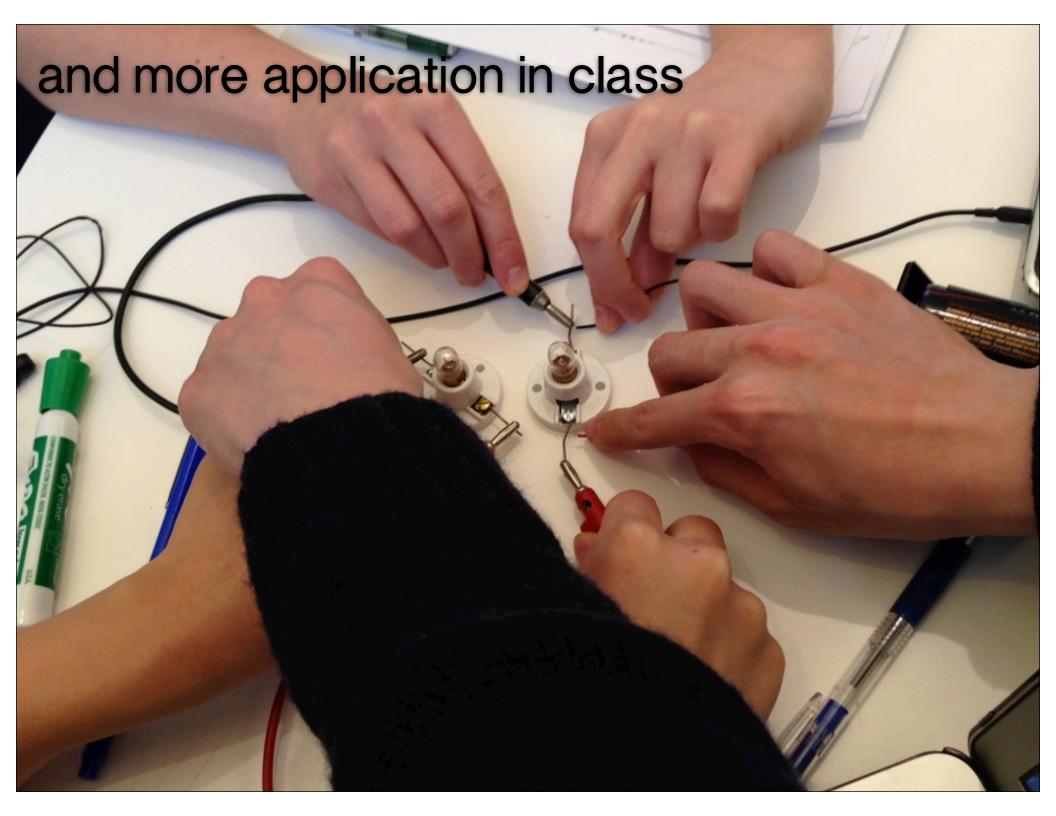
Flip This Lesson

There are many ways to flip a class and no one right way.



Has more first exposure before class





Goals for today...

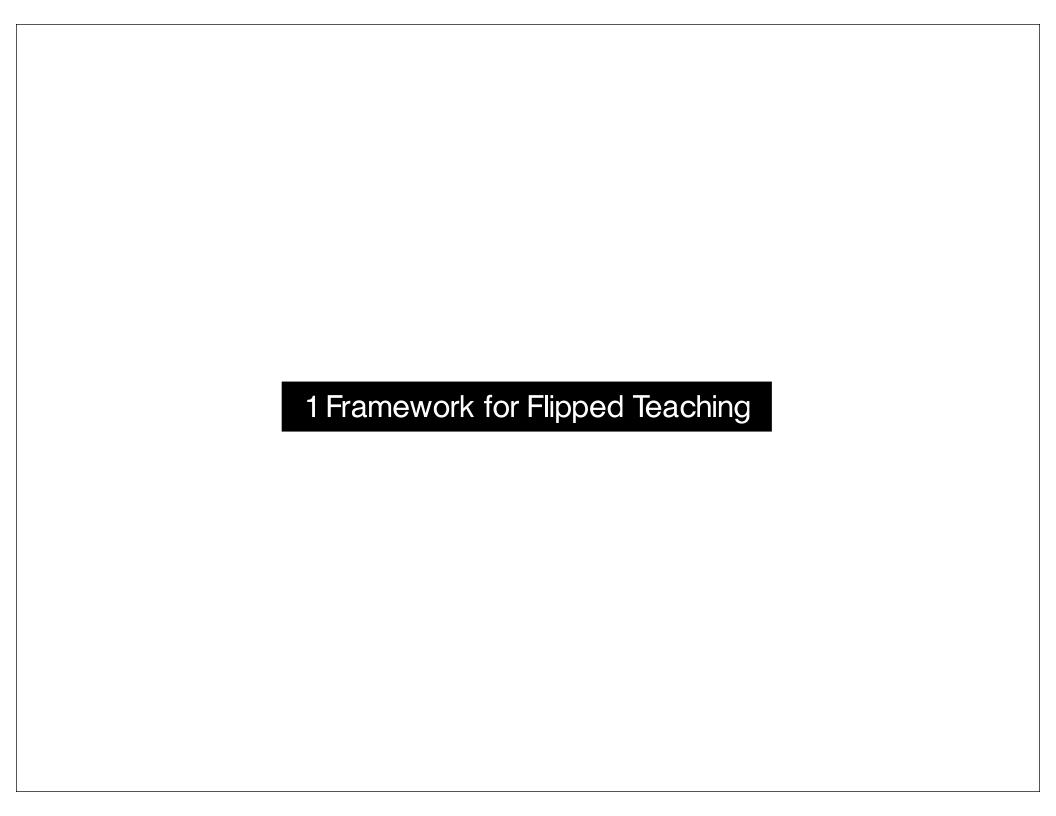
3 Essential Questions

8 Big Ideas

2 Key Characteristics

1 Call to action

14 takeaways

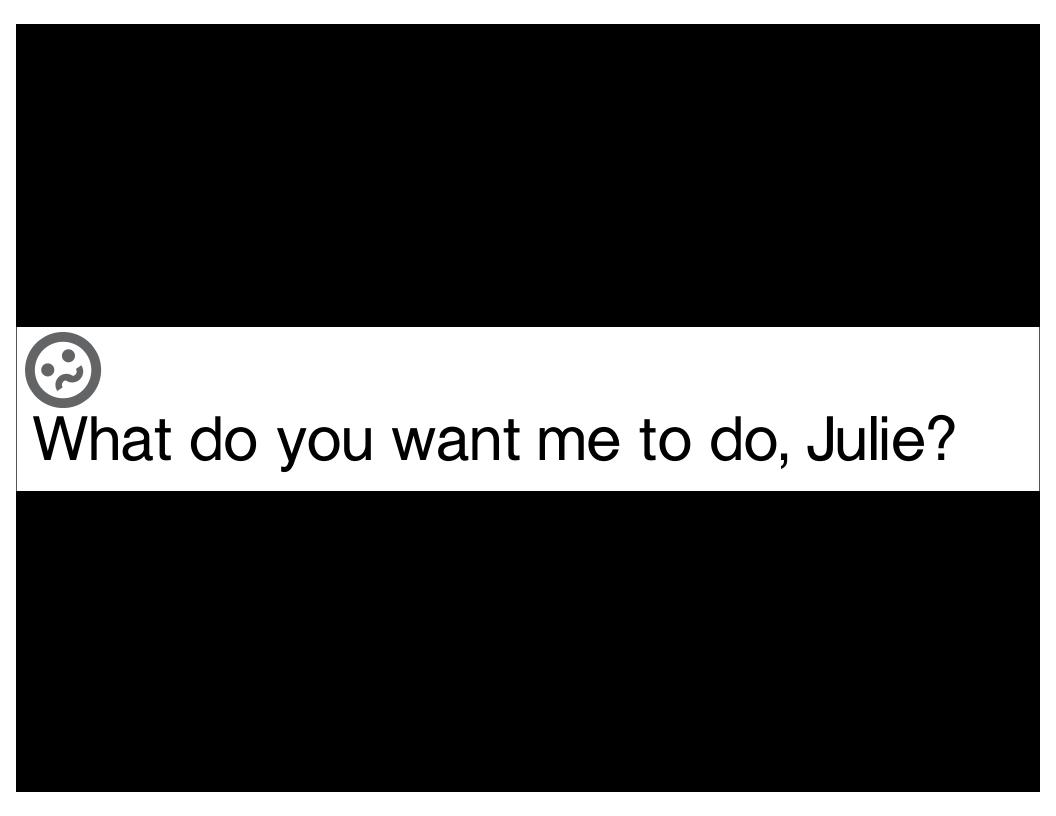


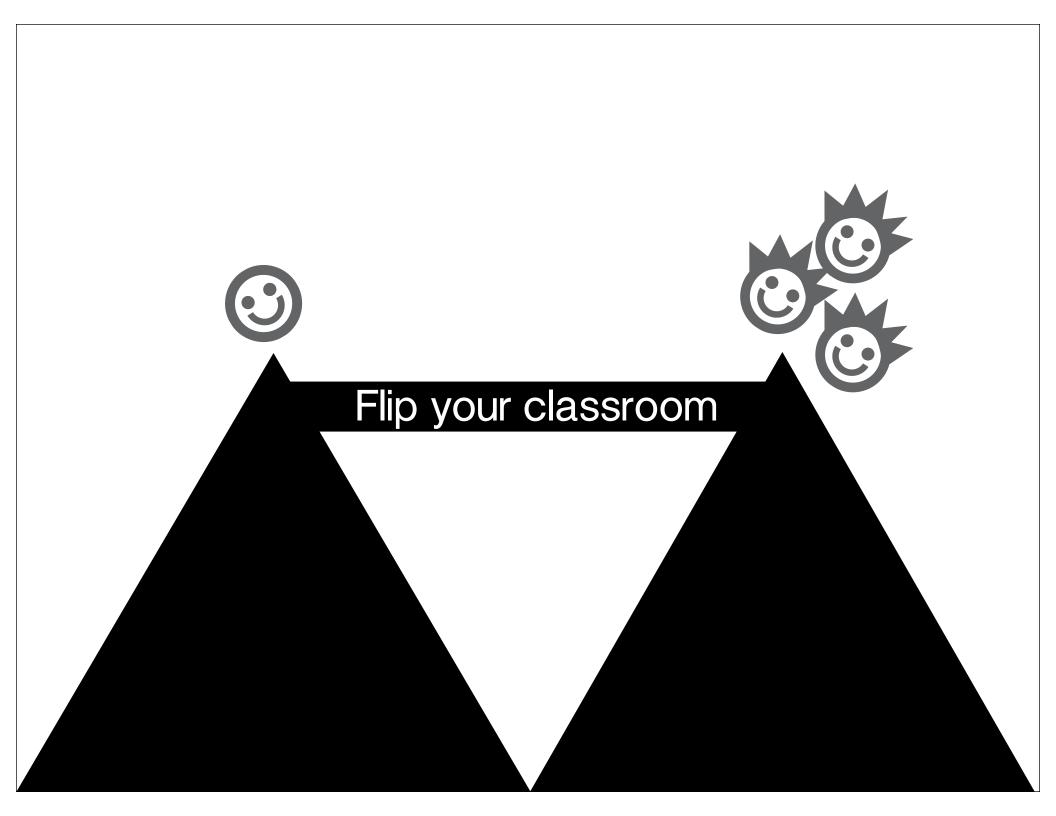


Flipped classrooms are a panacea.

A. True

B. False



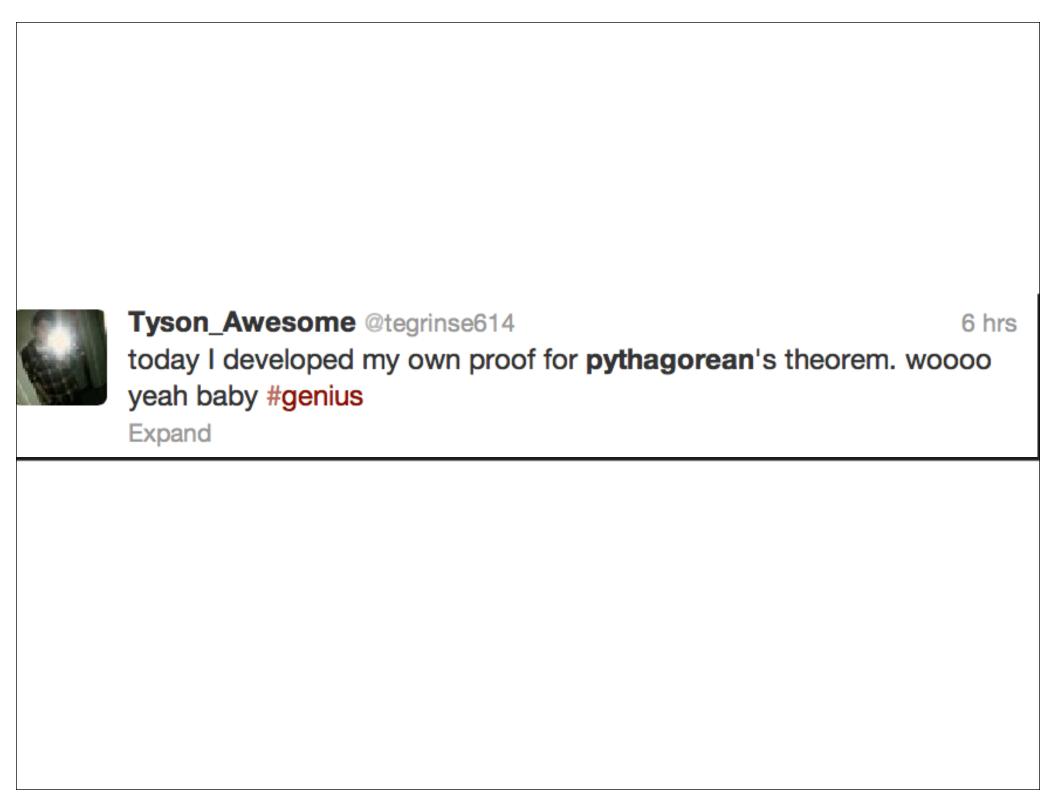


Call to action- FLIP

F	Find a concept to flip
L	Lift coverage/first exposure out of class
	Incentivize out of class work
Р	Privilege application activities in class

Inspired by Josh Walker, Center for Teaching and Learning UT Austin

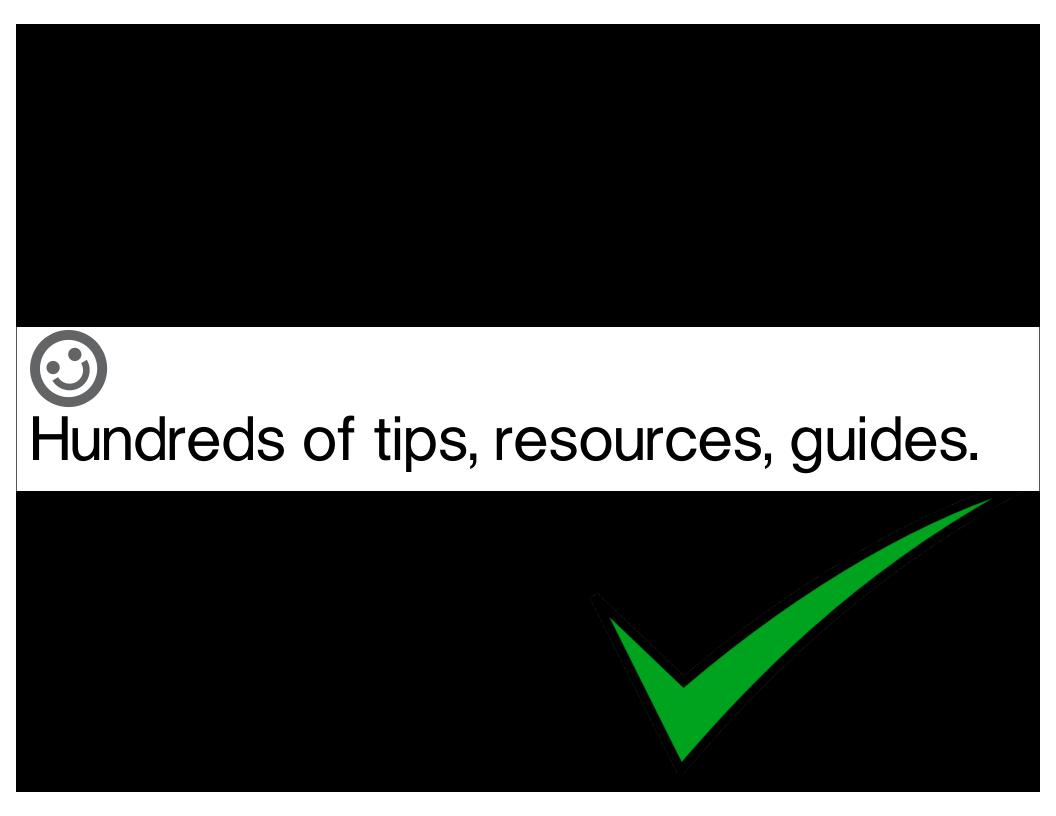






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Acknowledgements

PEOPLE

Eric Mazur

Ives Araujo

Cassandre Alvarado

Brian Lukoff

Dan Meyer

Nancy Duarte

Jonathan Metrick

BOOKS

Flip Your Classroom

Peer Instruction a User's Manual

Just-in-Time Teaching

Slide: Dlogy





