### Flipping 101: An introduction to flipped classrooms





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

Rowan University New Jersey April 12, 2013





brianna girlie @bripaigegirlie

33 mins

I hate school. I hateschool. I HATE school. I h8 school. I hate skool. Ih8skool. I. hate. school. Eye h8 skool. I HATE SCHOOL. **#ihateschool** Expand **•** Reply **13** Retweet **\*** Favorite **•••** More



#### LundenStallings @livestrong\_1

Feb 25

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

Collapse 🔸 Reply 13 Retweet 🗯 Favorite 🚥 More





#### Allison Newby ♥ @allisonnewby13

Tomorrow is new fresh start to a long week of torture. #ihateschool

Expand



#### Kaylee Krepps @kay\_lay13

Dear pre-calc, **I hate** your stinking guts You make me vomit You're the scum between my toes Love me P.S. send that message to **physics** too

Fe



JasmineJandu @JasmineJandu

13 mins

I hate the fact that there's school tomorrow. Dead serious right now, I'd rather throw up and sit on it. **#ihateschool** 

Expand



Kelly Chen @pianokchen School is so boring #ihateschool Expand

4h



brookedlane @brookedlane14 Completely. Bored. Out. Of. My. Mind. 😒 🖜 #ihateschool Expand

6



#### KAILS @kaillleybird

7 Apr

Never learned how to get a loan, buy a house, car, or anything else useful in life, but I DO know the effing **pythagorean** theorem

Expand

# Would be funny...if it wasn't so heartbreaking.



### •no ON/OFF button

•only last "click counts"

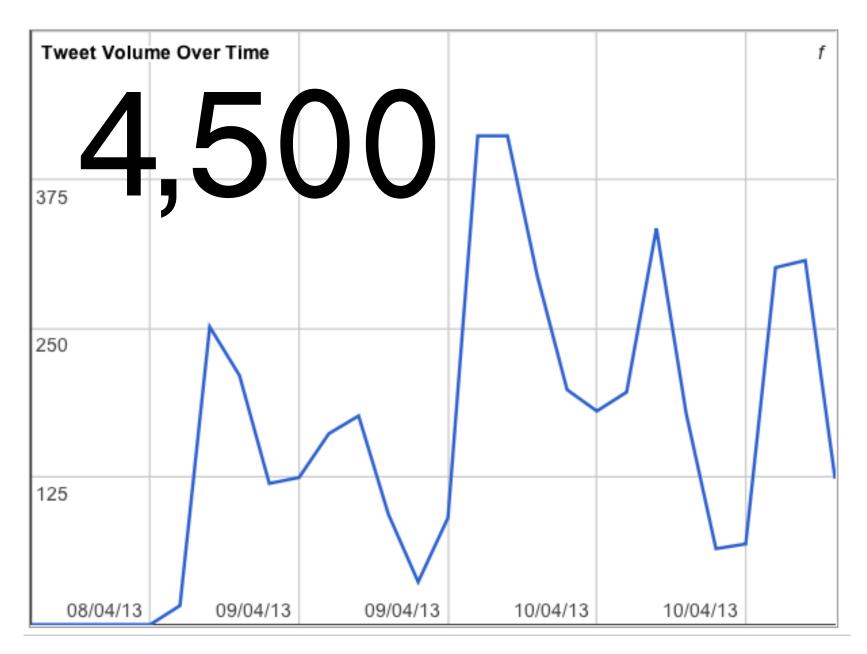
displays recorded answer

•ID on back

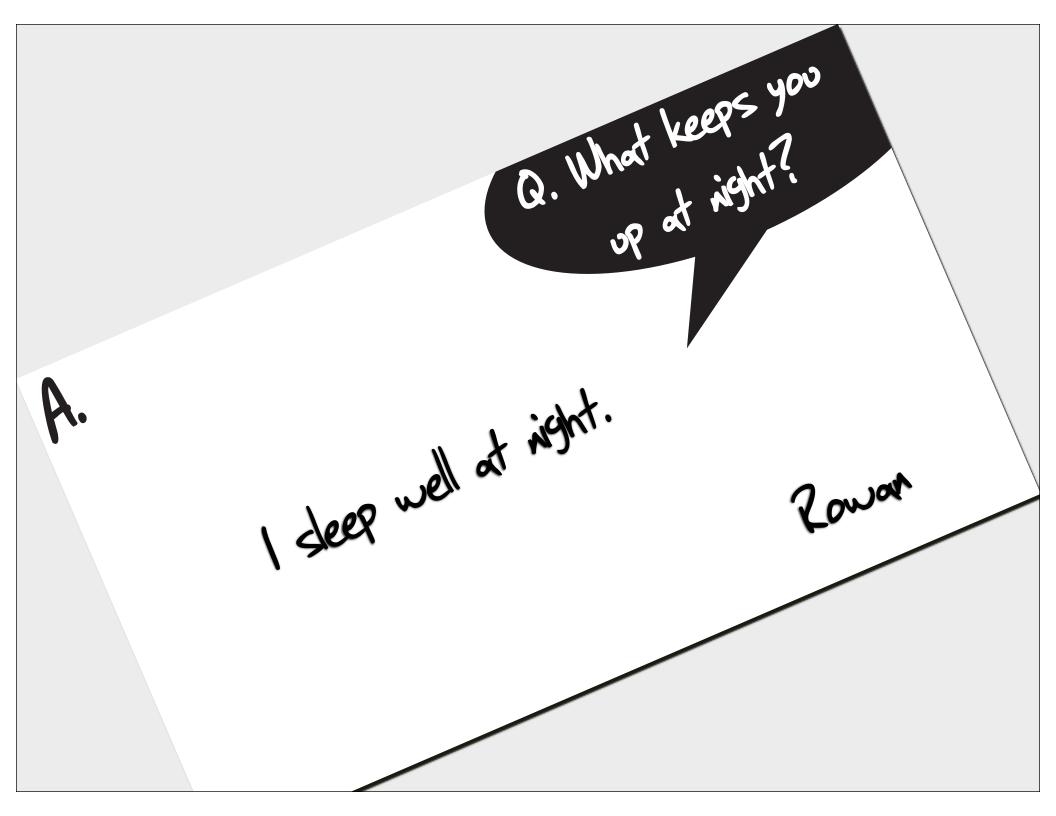
## How many #ihateschool tweets in past 3 days? About...

a. 500
b. 1500
c. 4500
d. 9000

### #ihateschool

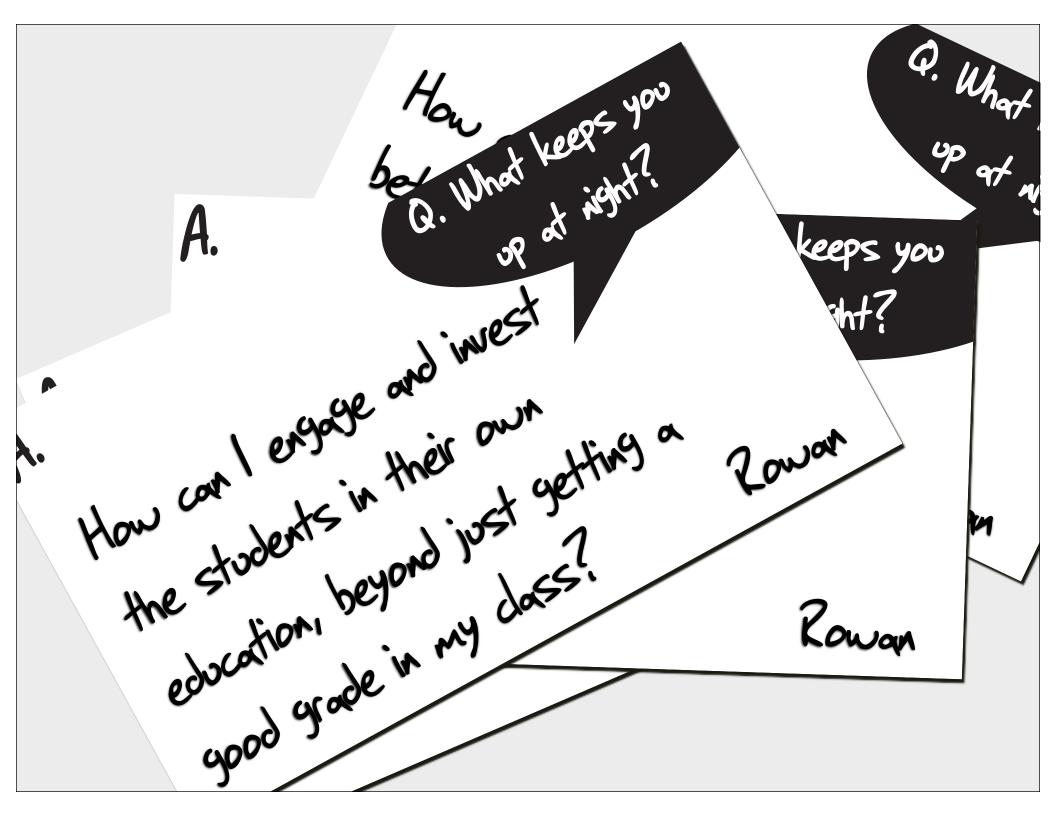




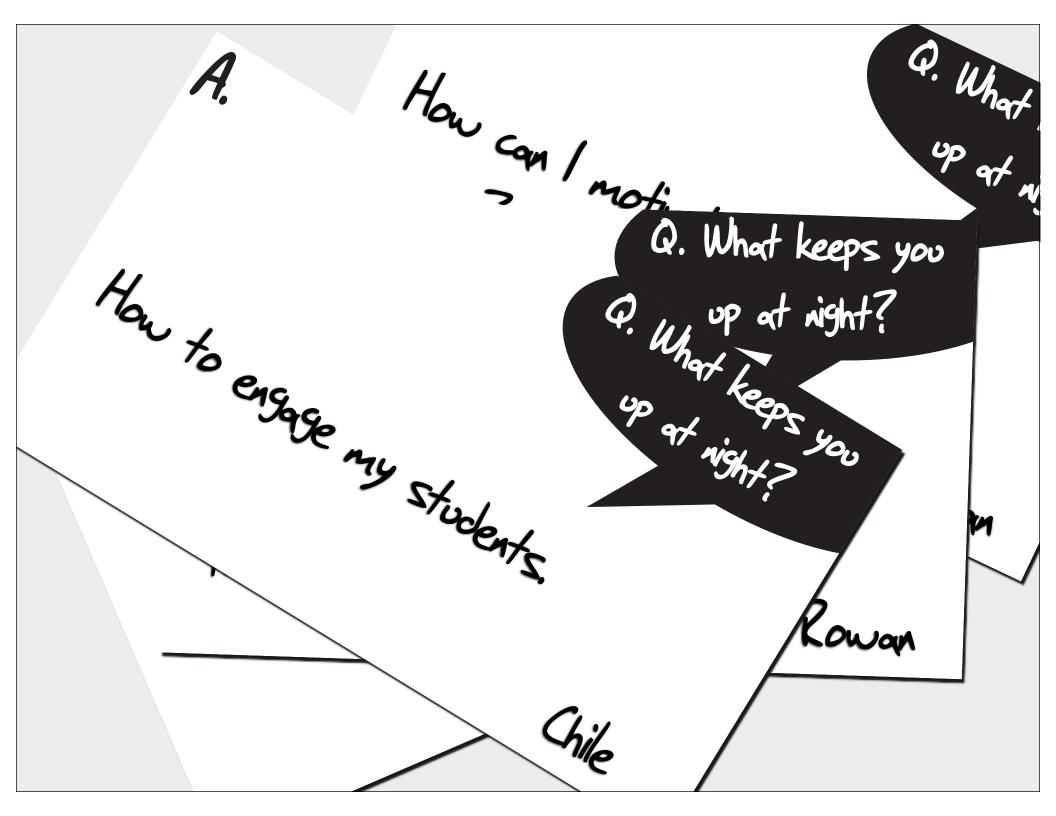




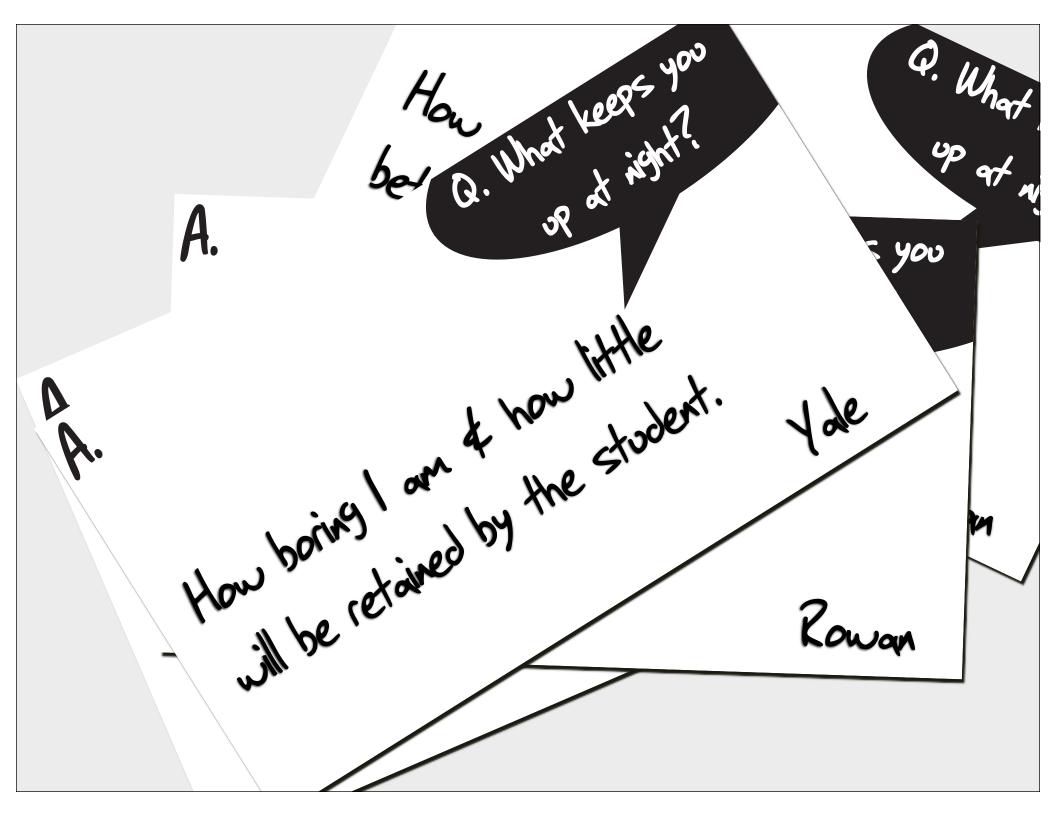




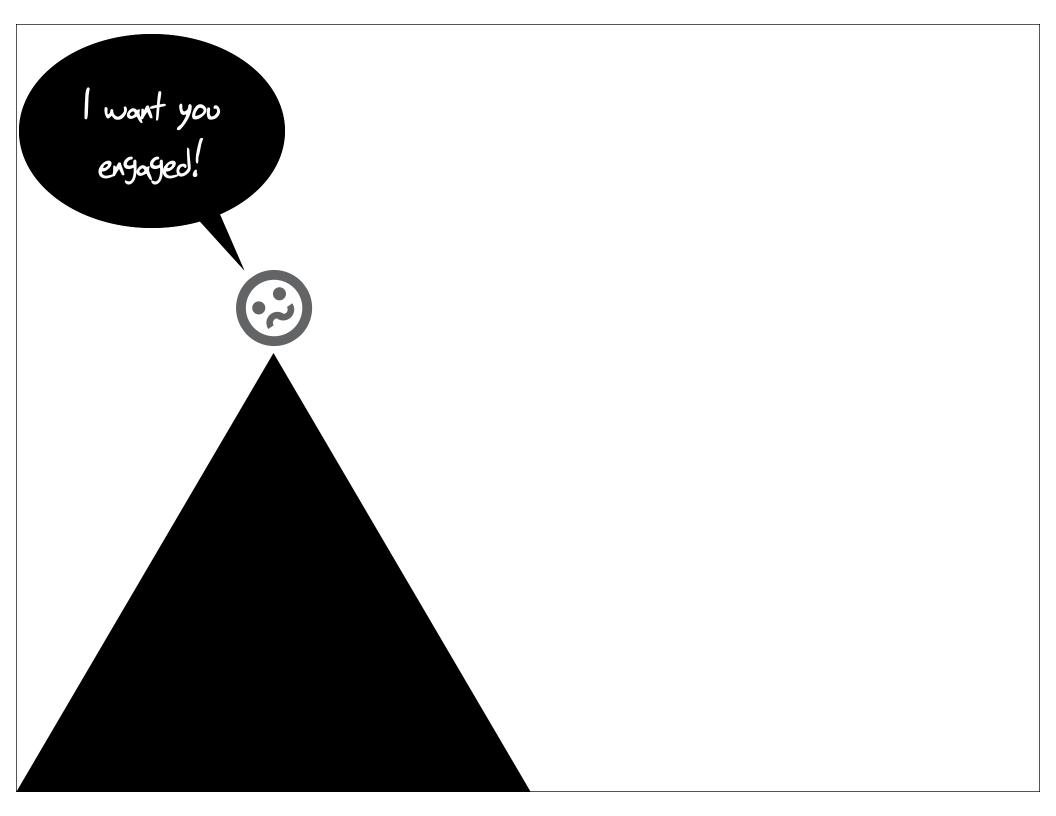
Q net keeps 97 Q. What keeps you A. up at night? λ. how " How can I motivate and get through to these kids? the Rowan abog alos

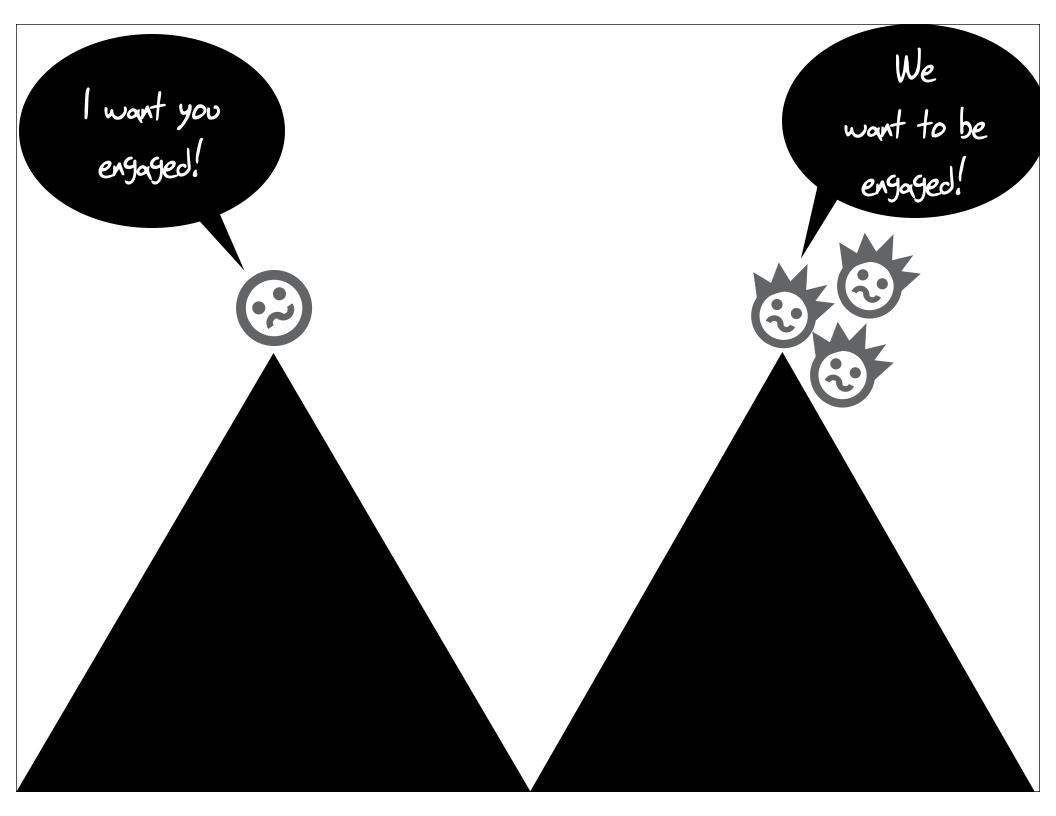


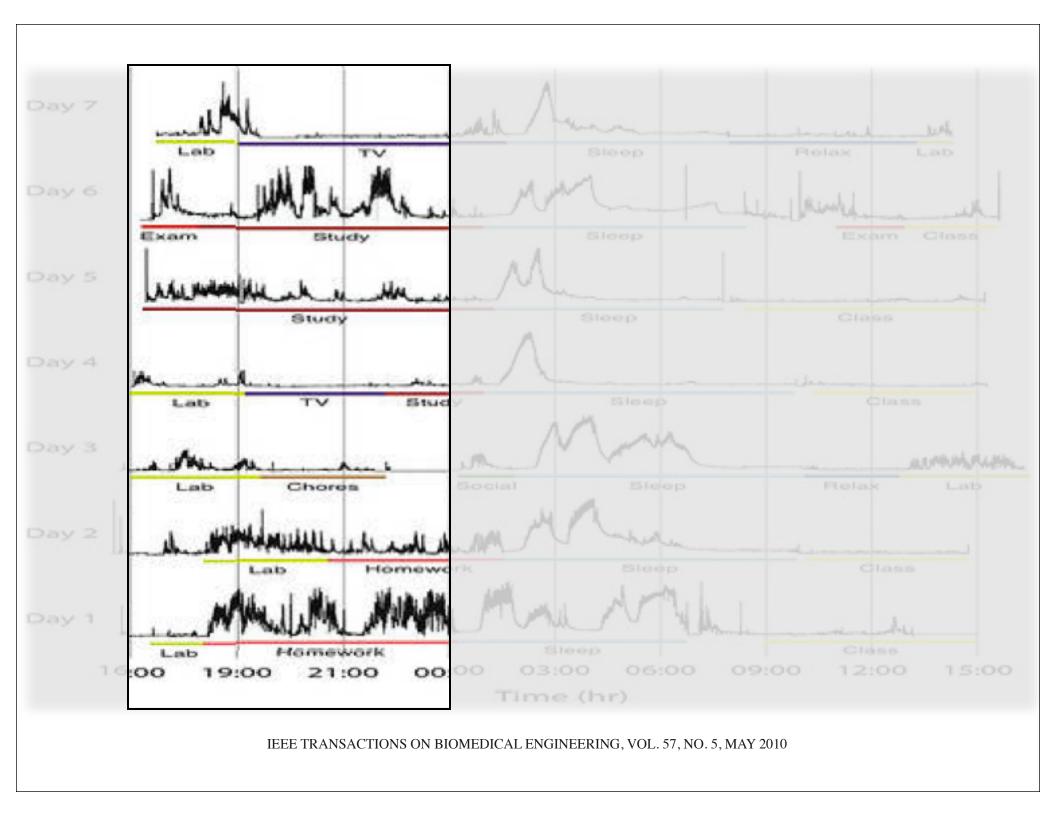


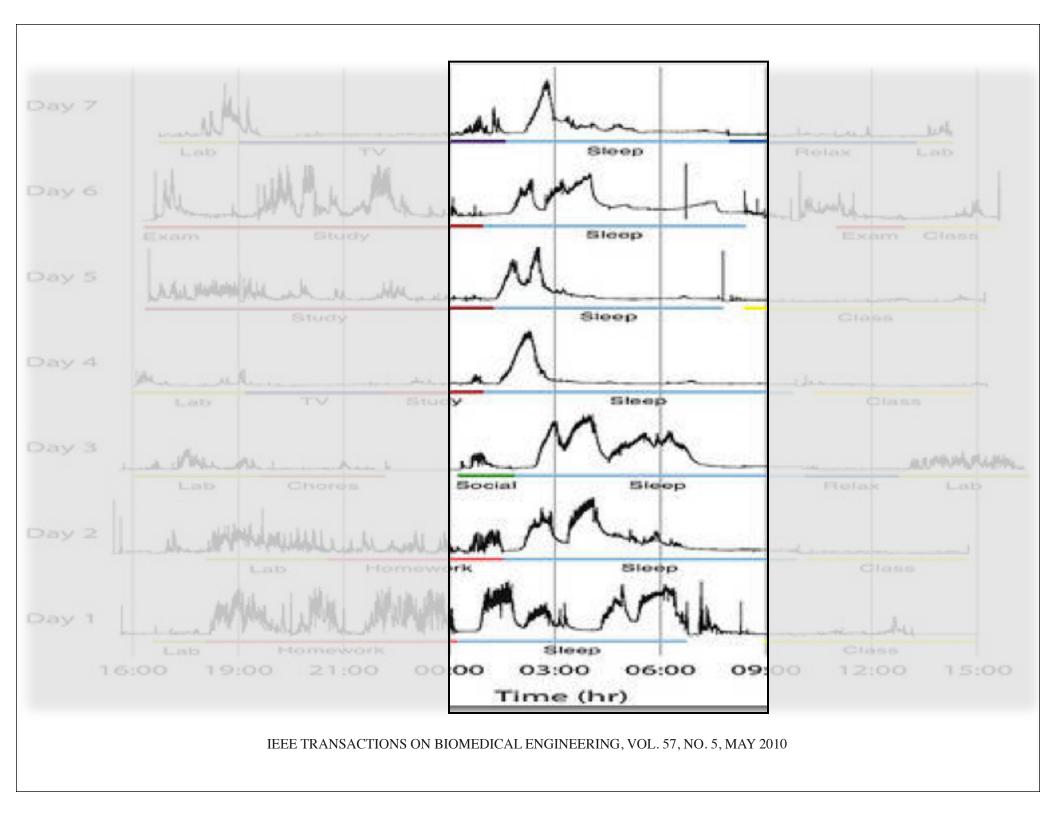


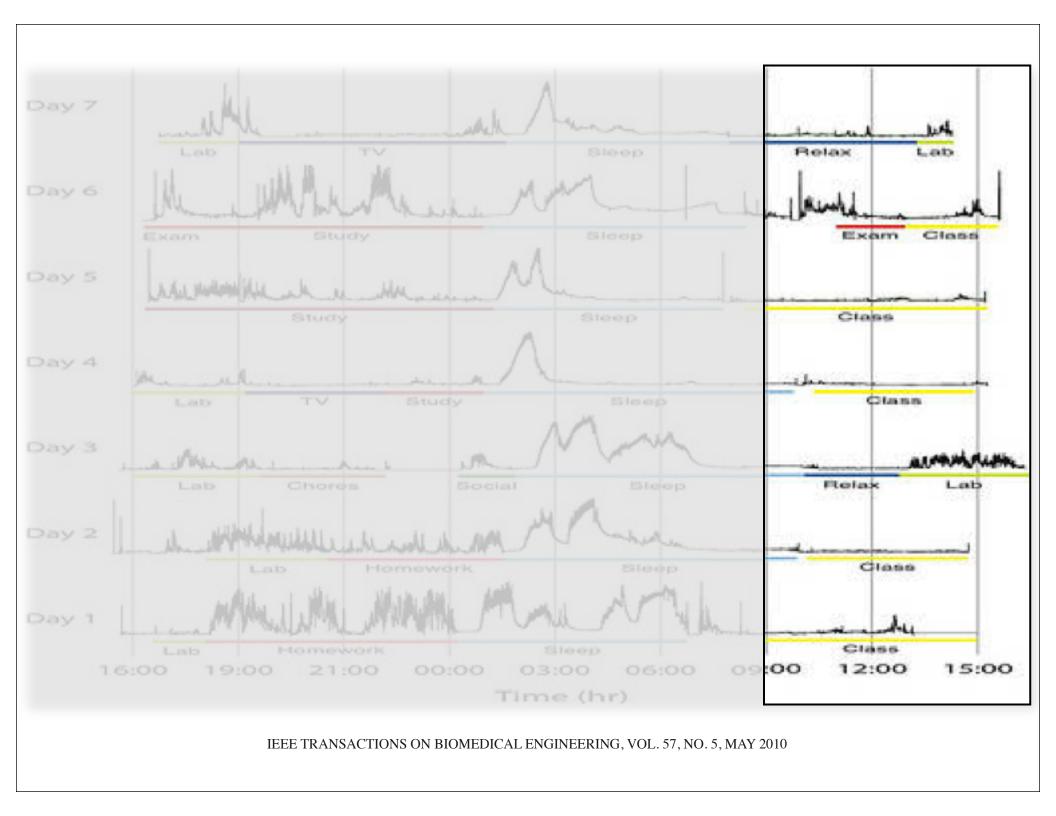
# Students and teachers want the same thing.

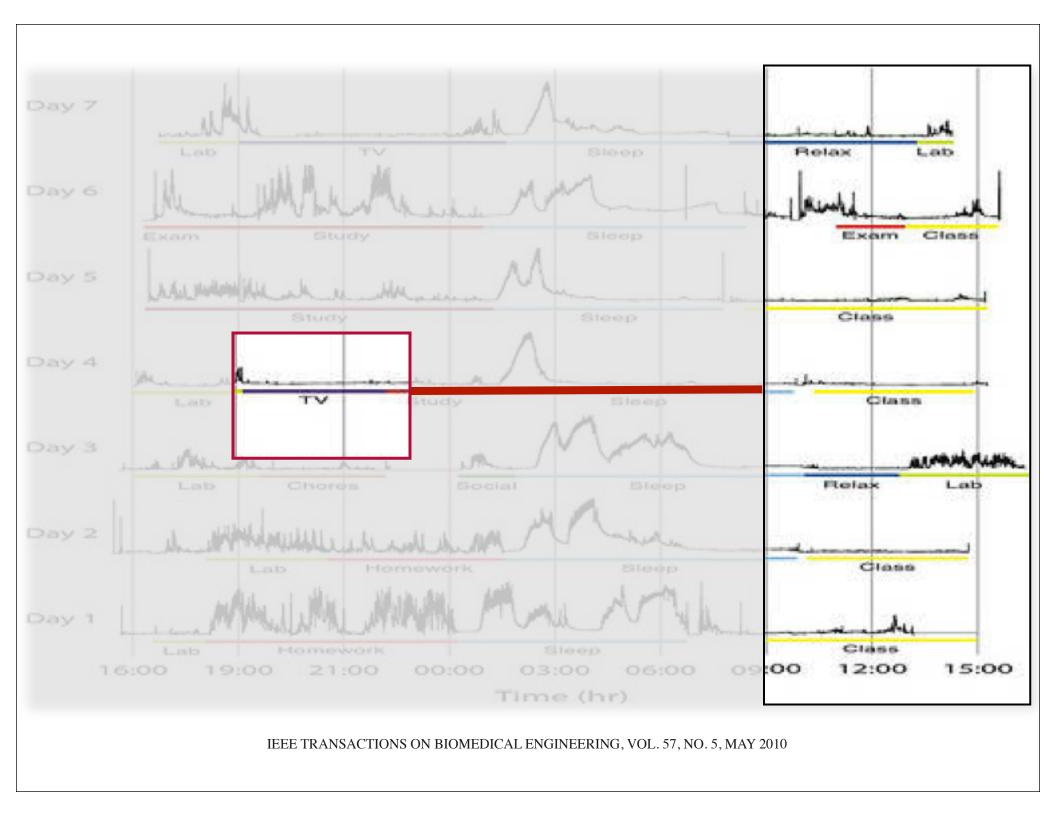


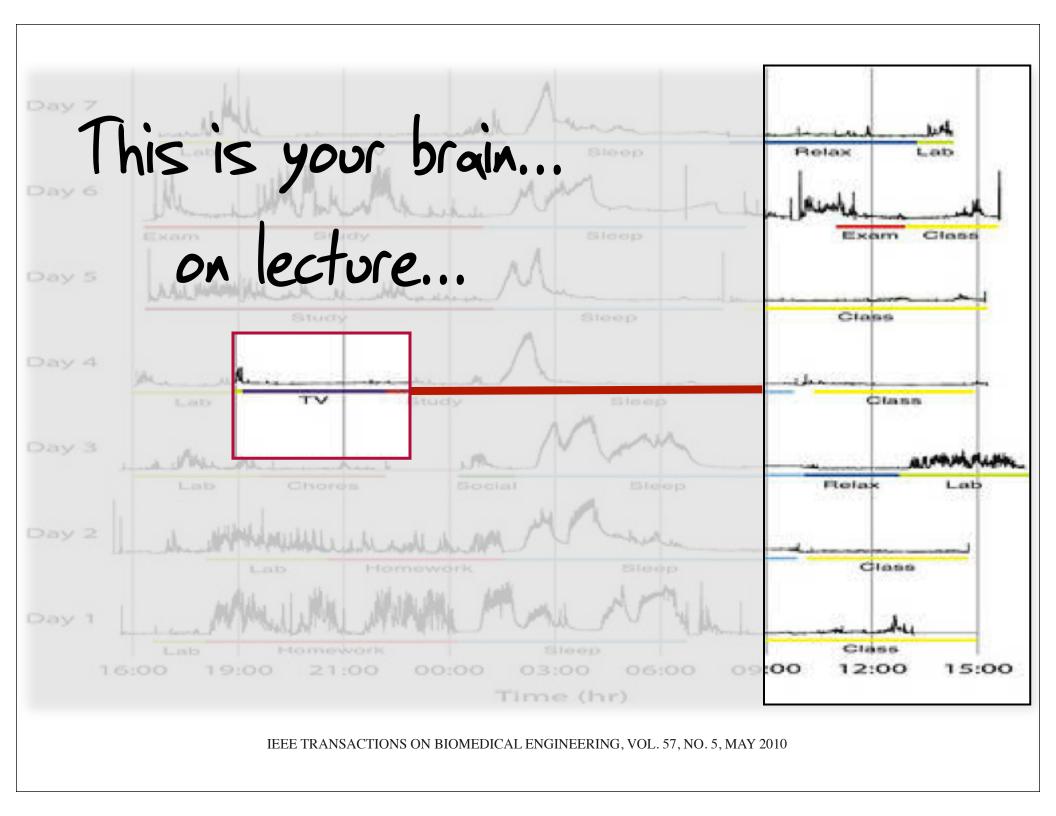


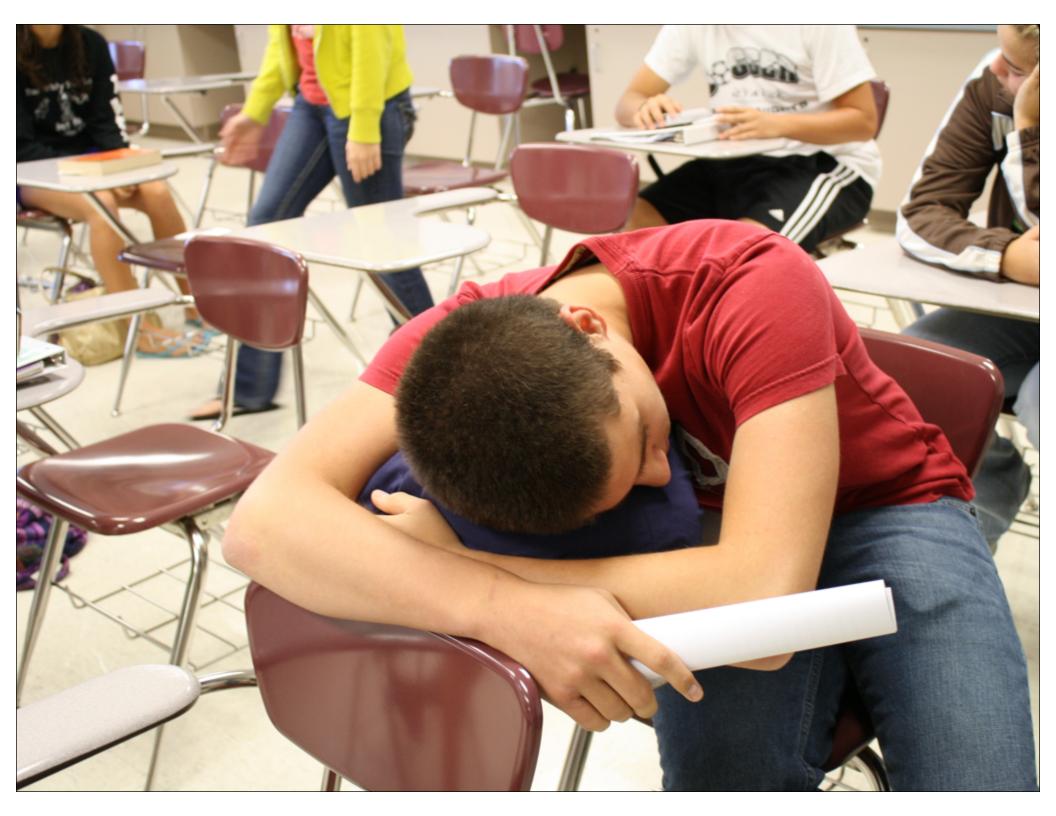














# Education doesn't have to be this way.

### What's going on in this classroom?



### What's going on in this classroom?

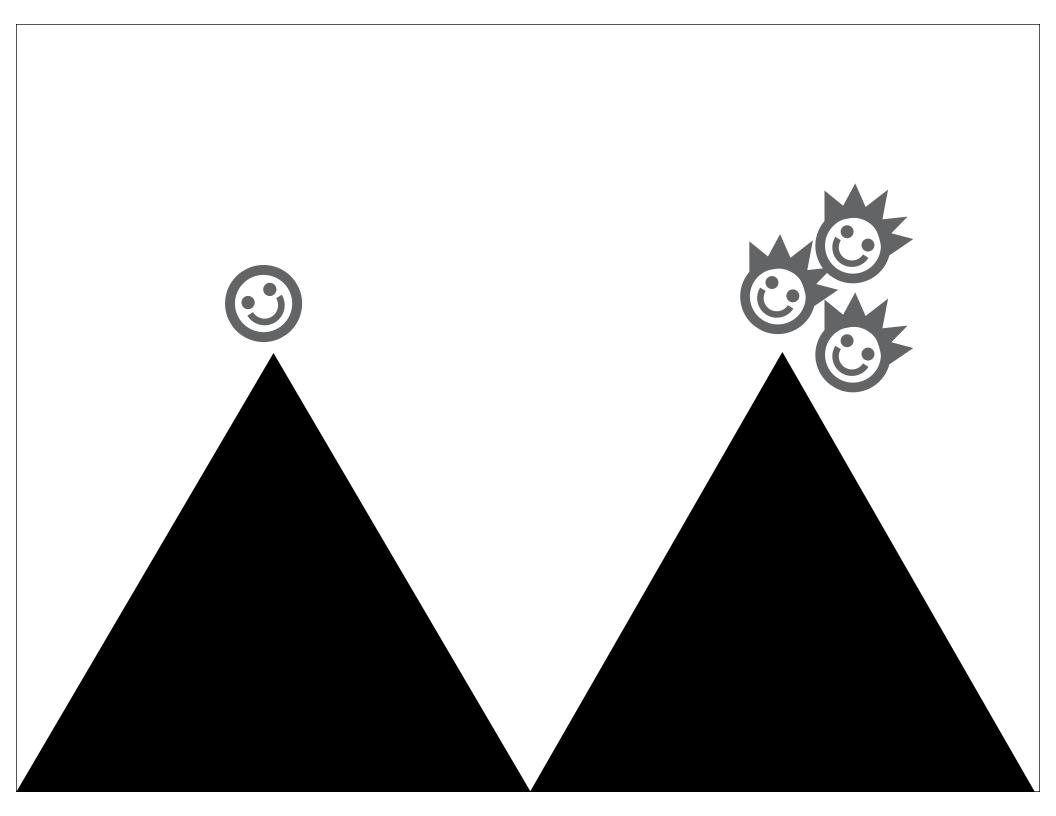
a. teacher left the roomb. talking about datingc. working on a physics problemd. this isn't a classroom it's a party

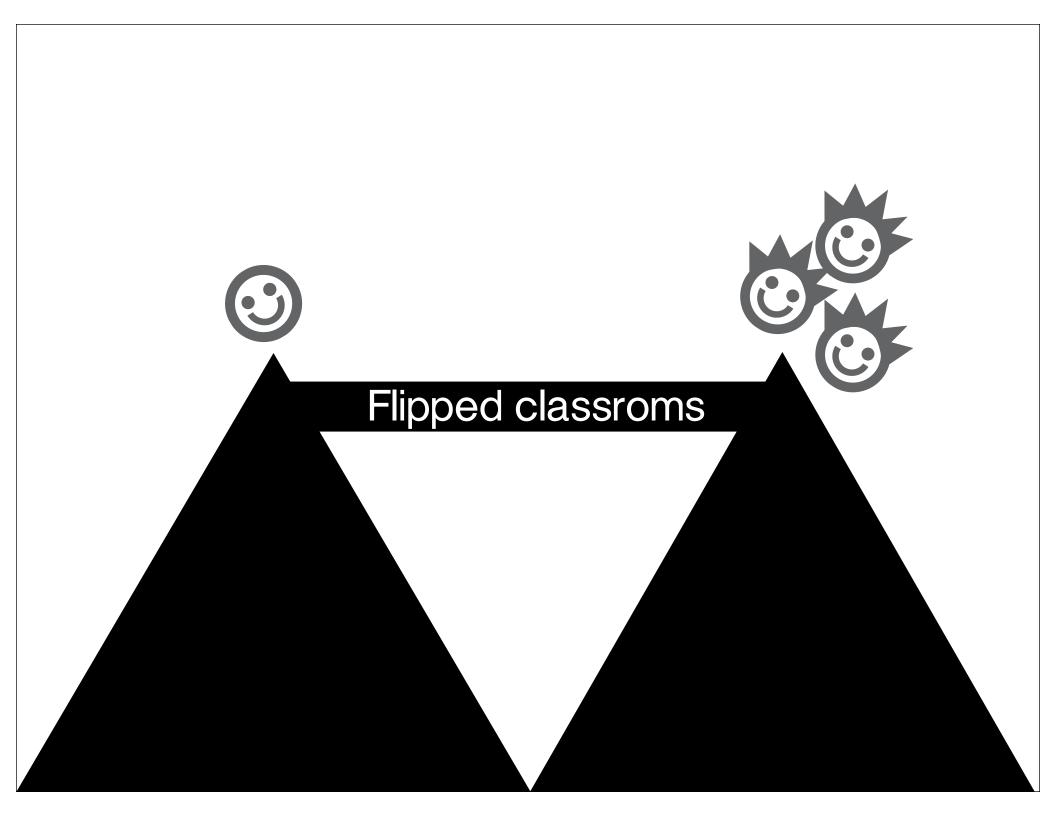
### What's going on in this classroom?

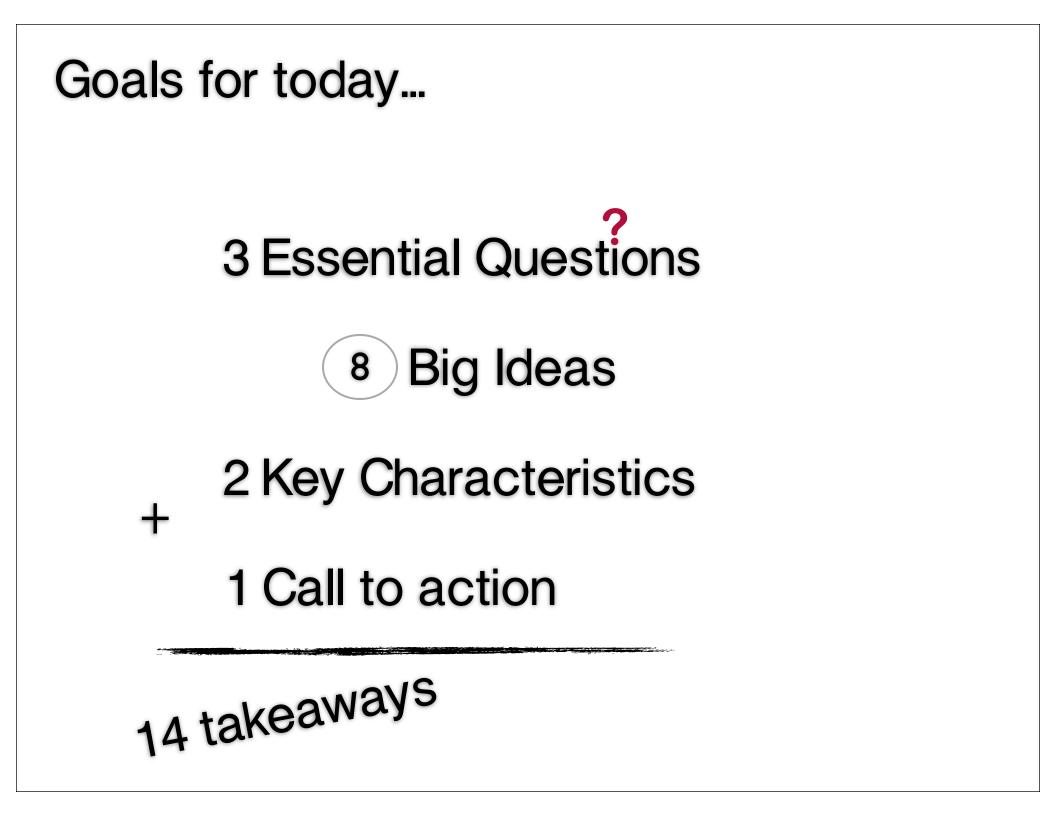
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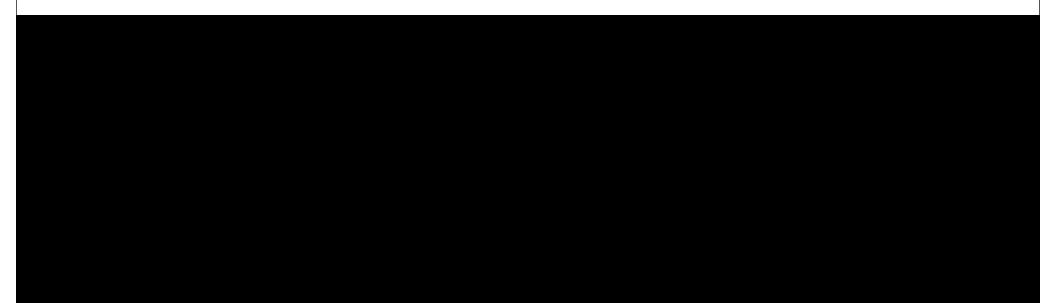
#### Bridge the gap.







#### 3 essential questions

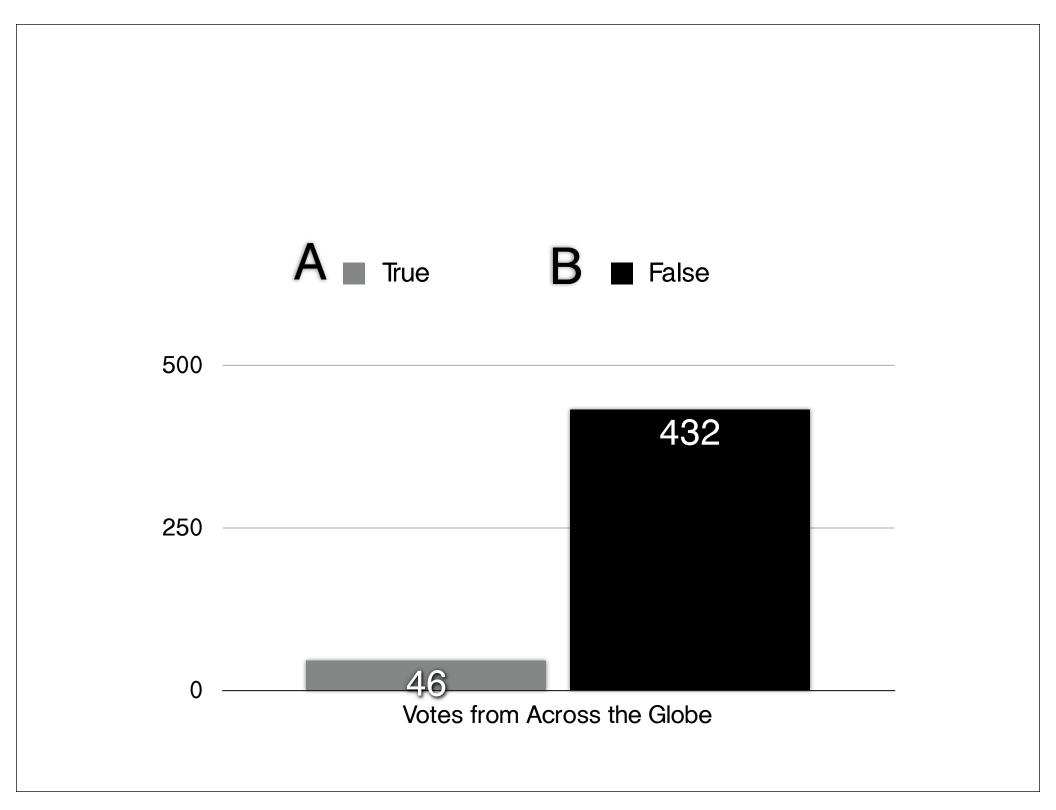


#### What is a flipped classroom



# You have to flip all content to have a real flipped classroom.

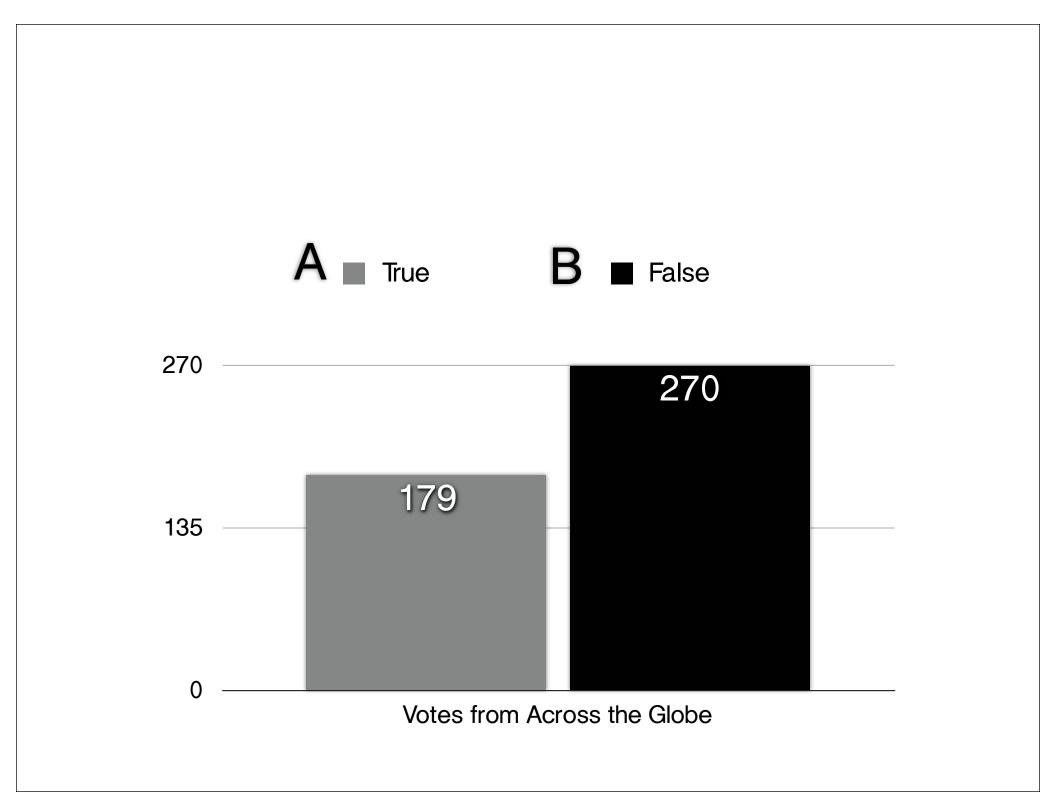
A. True B. False

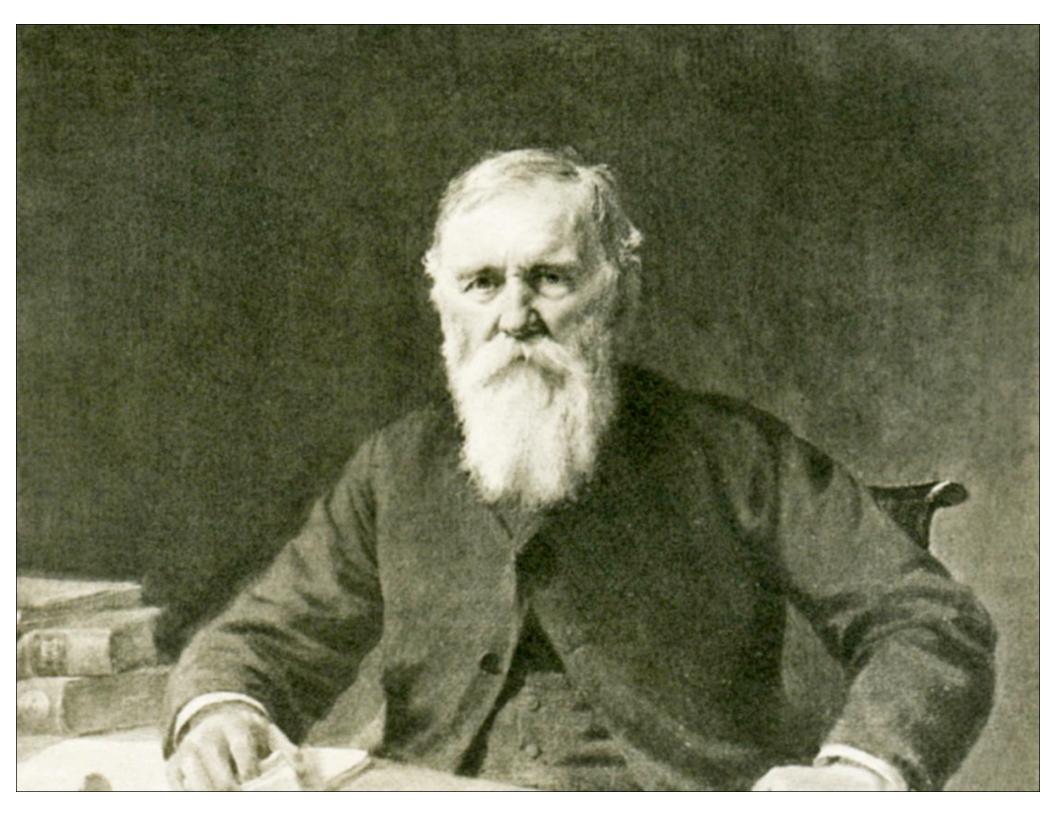


#### You can flip one concept or 10.

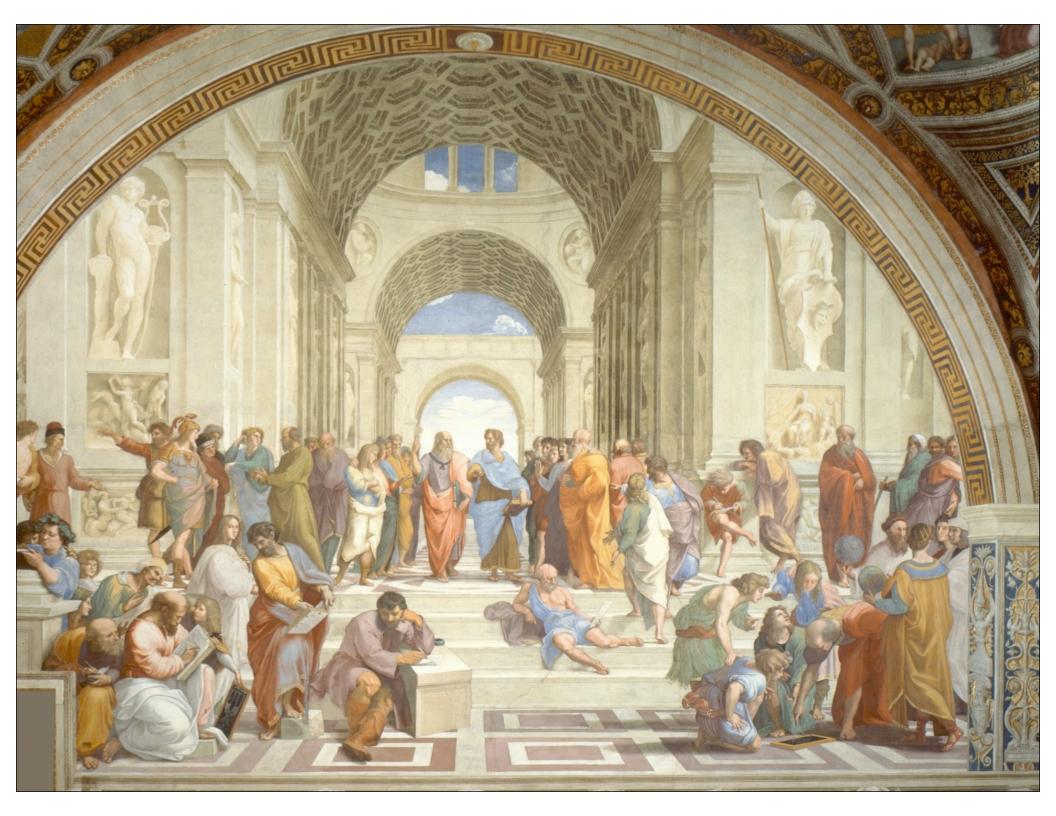
## Flipped classrooms are the latest edutrend.

A. True B. False









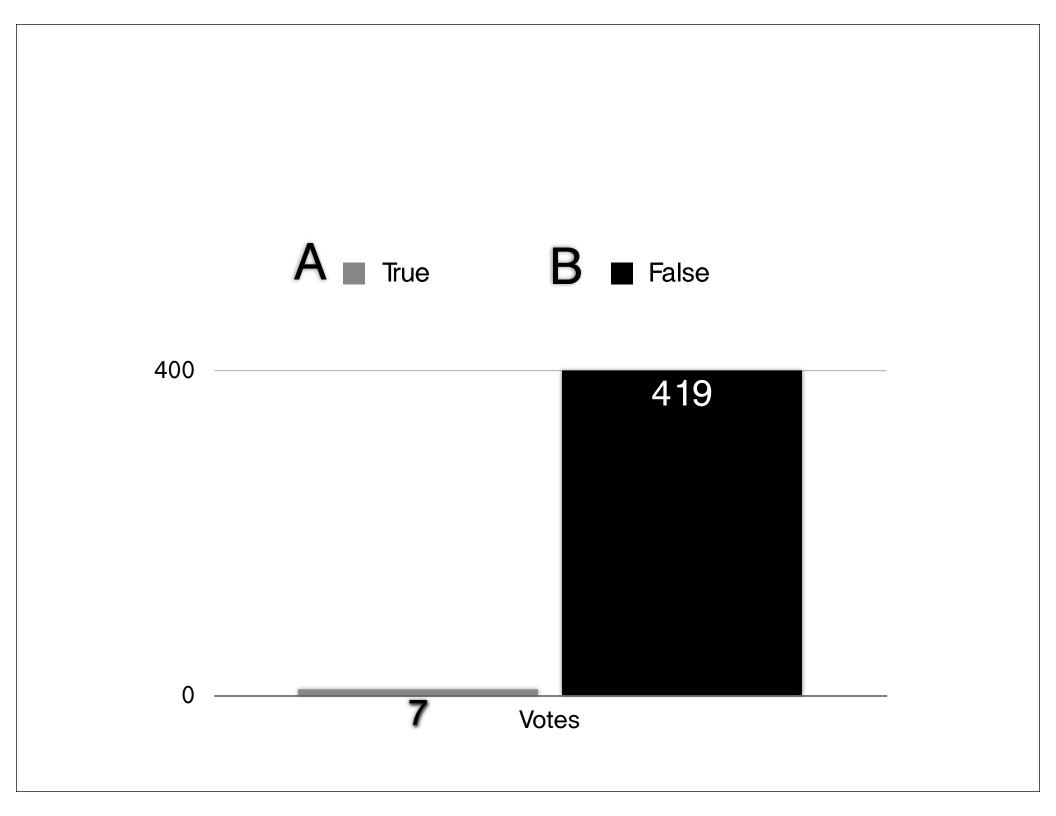
#### They are not new.

2

# Flipped classrooms replace faculty with computers.

3

A. True B. False



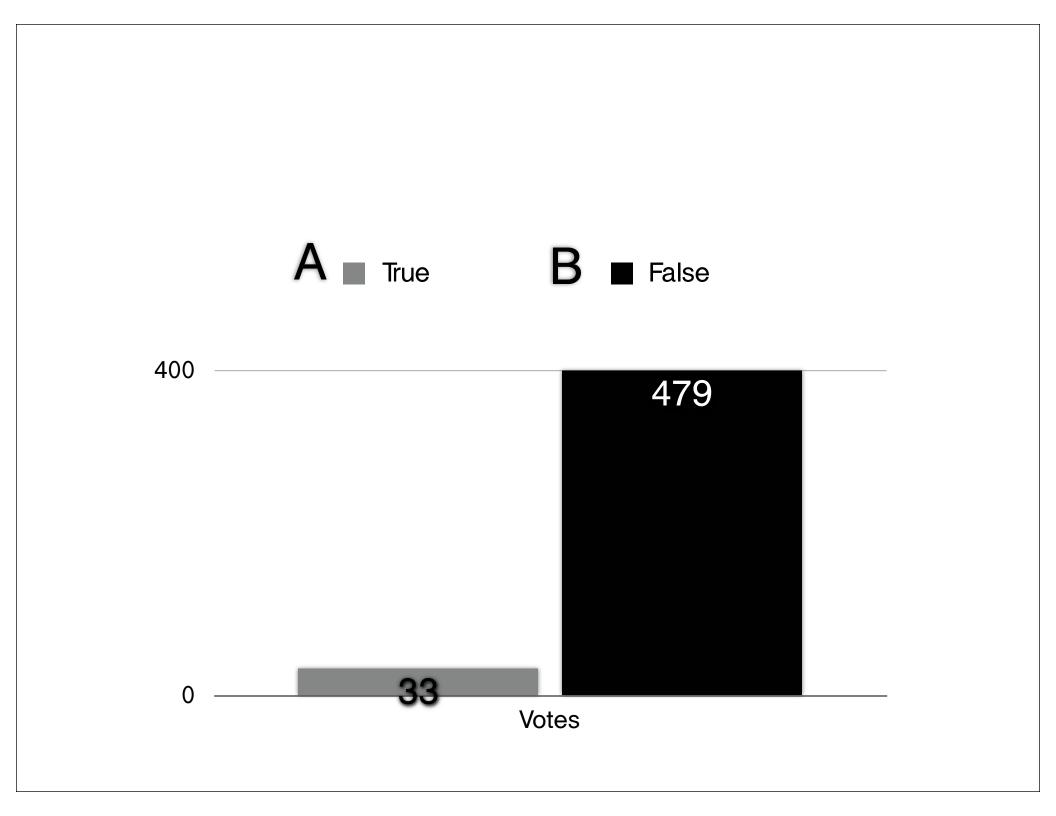




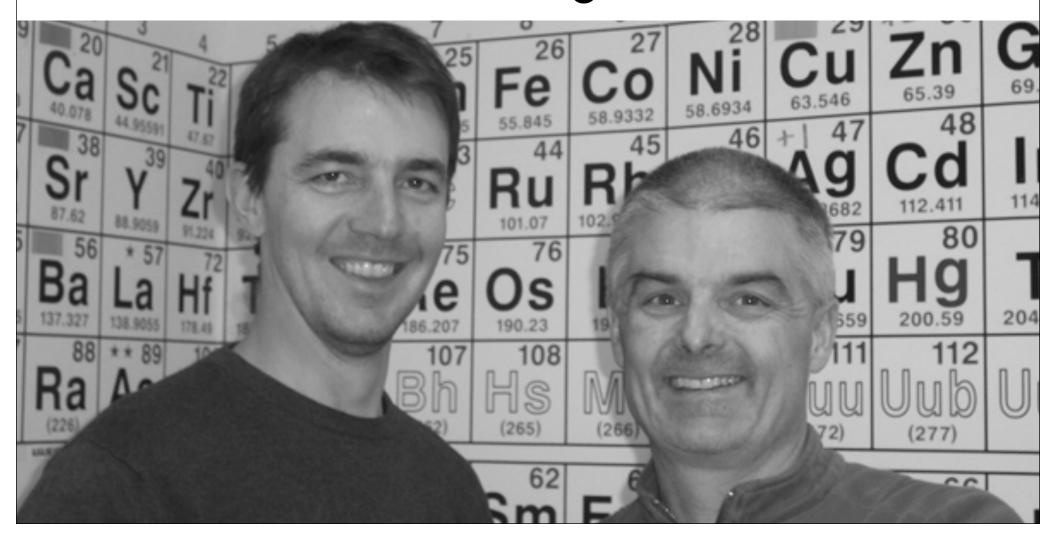
# Replaced sage on the stage with a guide on side.

# Flipped classrooms are primarily about putting lectures online.

A. True B. False



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



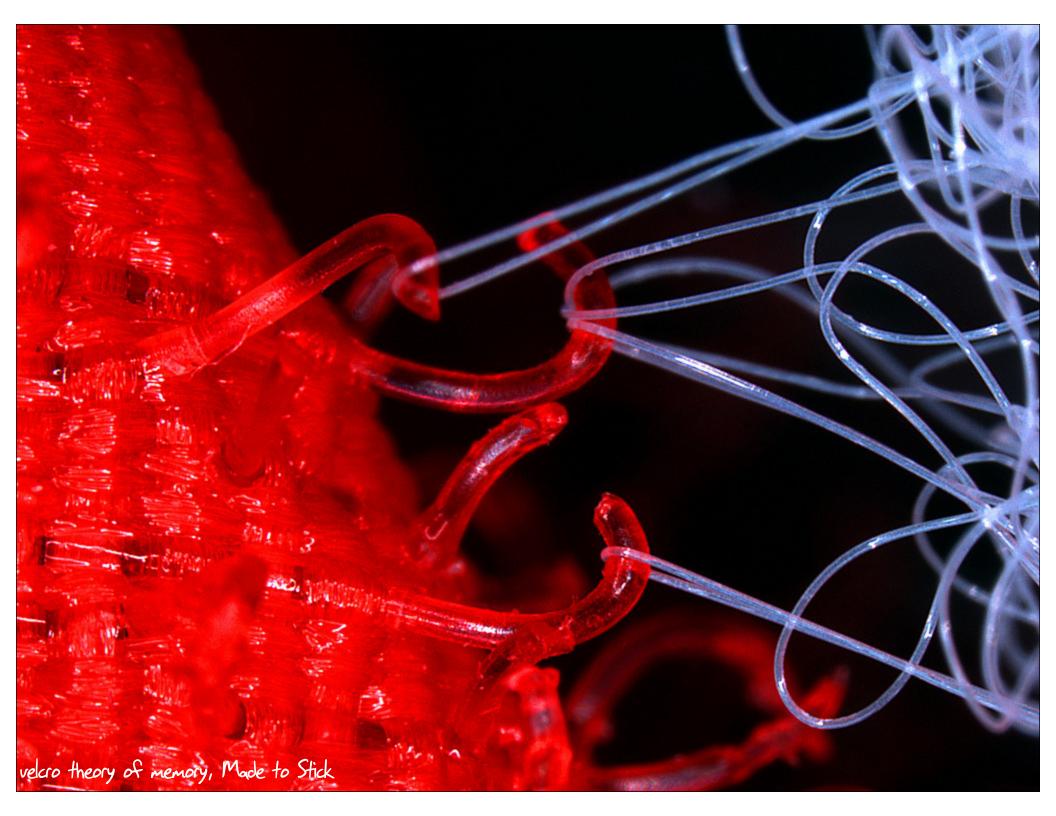
#### In a traditional class, **first exposure** to material happens in class, primarily through lecture.

Inspired by Cynthia J. Brame

# Application happens out of class, primarily through homework.

# Flipped classrooms are about pedagogy not technology.

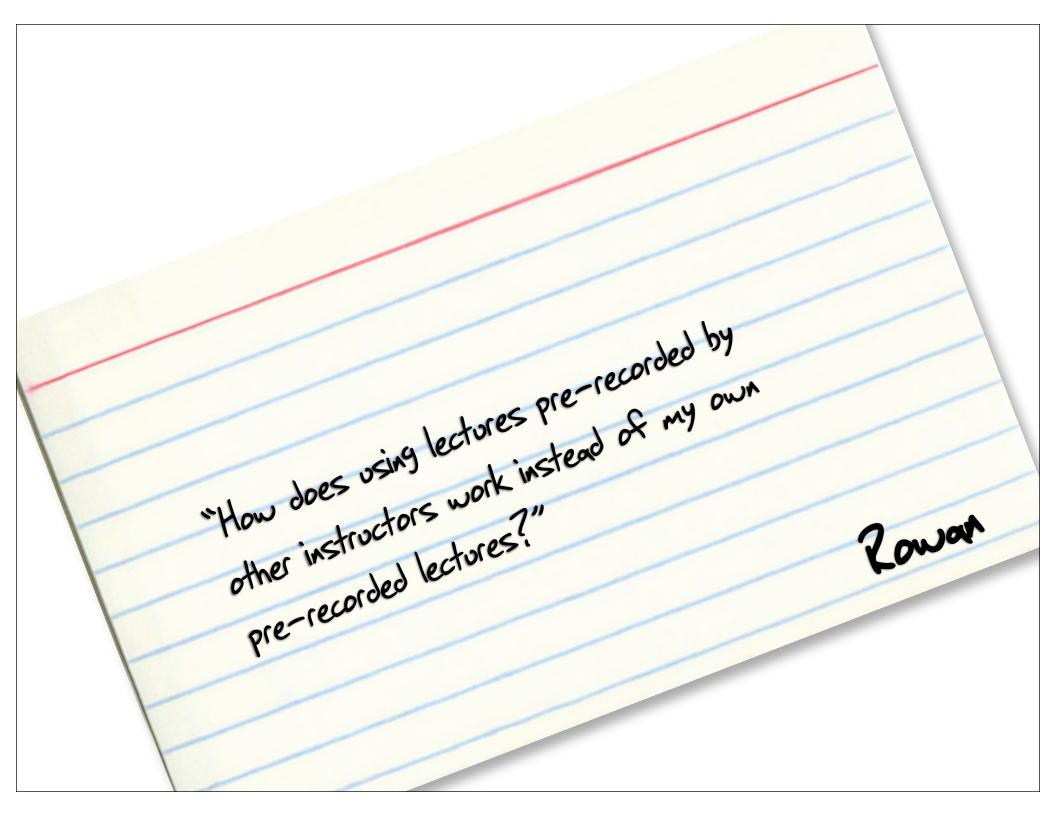
# In a flipped class, students get **first exposure** before class.



# And spend time **applying** material in class.

#### Flipped 101 Model

## Out-of class activity is lecture video or "screencast"



#### 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.



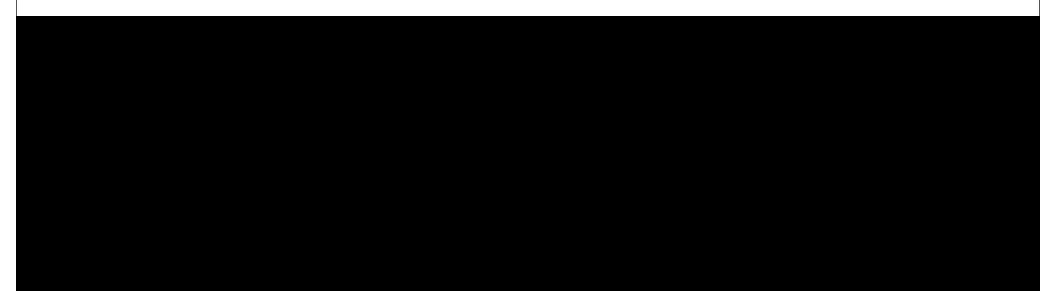
Watch Think **Dig Deeper** Discuss ...And Finally Flip This Lesson TEDEd Beta

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# In-class activity is doing homework problems.

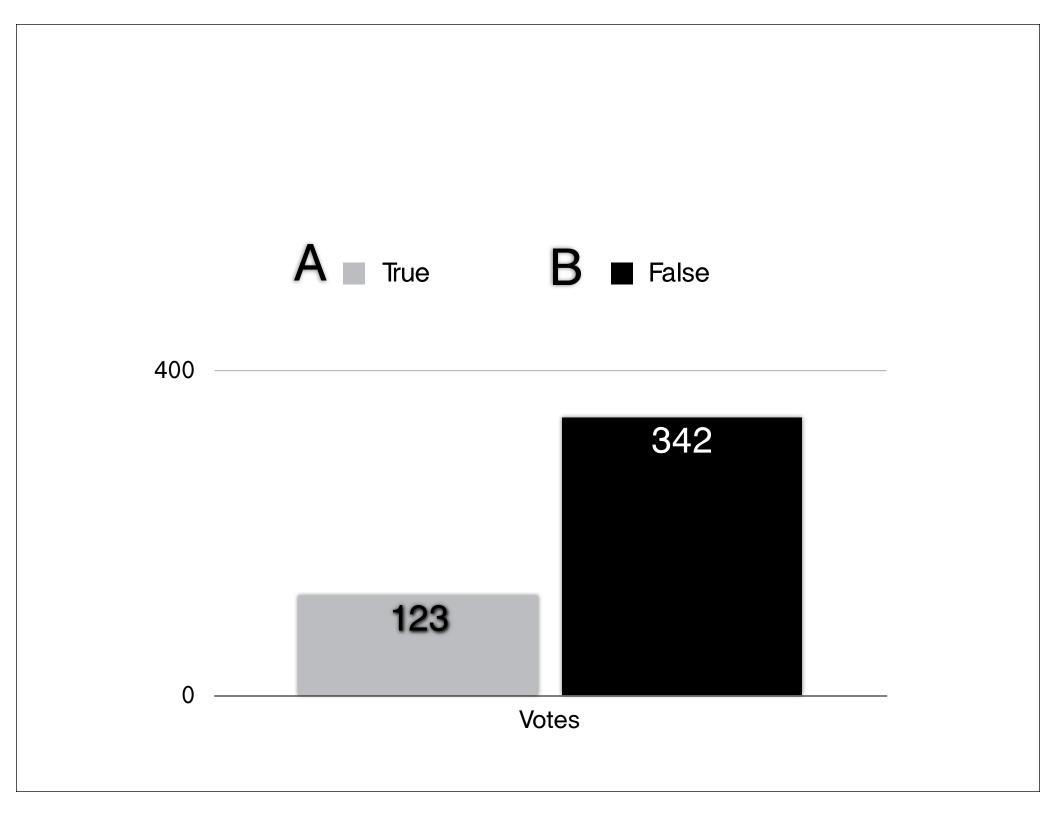


#### Why should I flip my classroom



# Students will love not having lecture in class.

A. True B. False



#### Students will resist flipped learning.

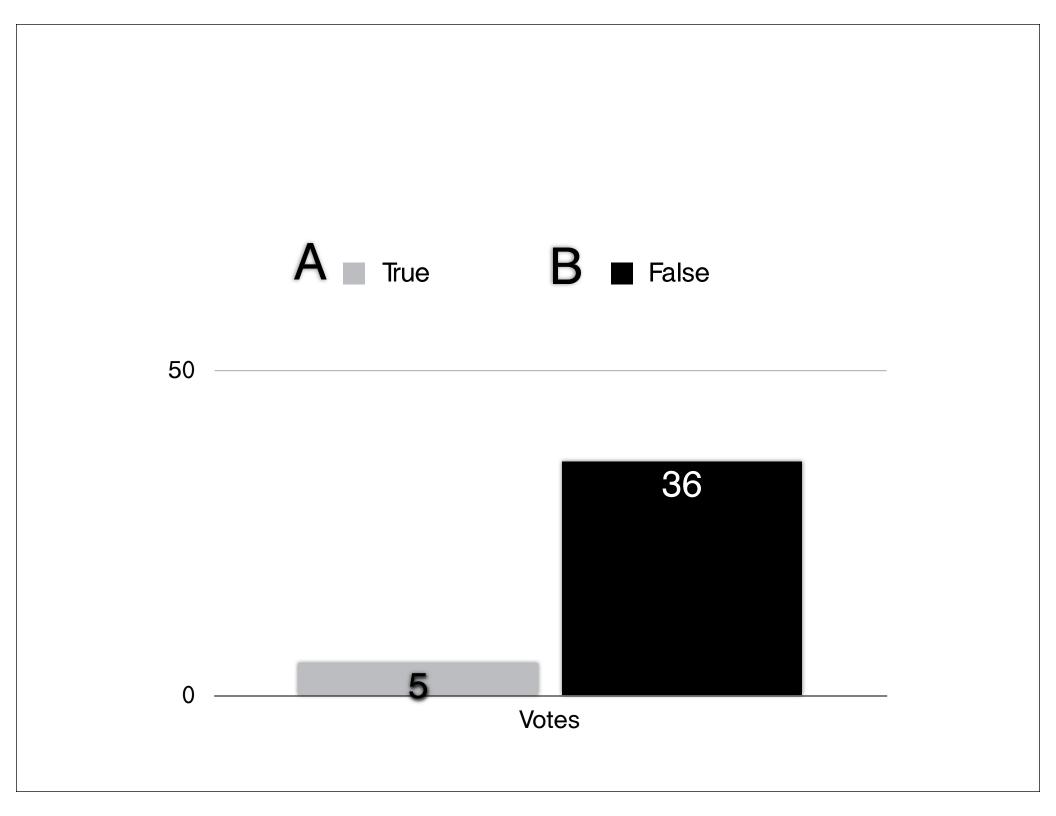
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#### Tip: Do a "stealth flip" - don't say "flipped classroom" or "experiment."

## Flipped classrooms means no more lecture.

6

#### A. True B. False



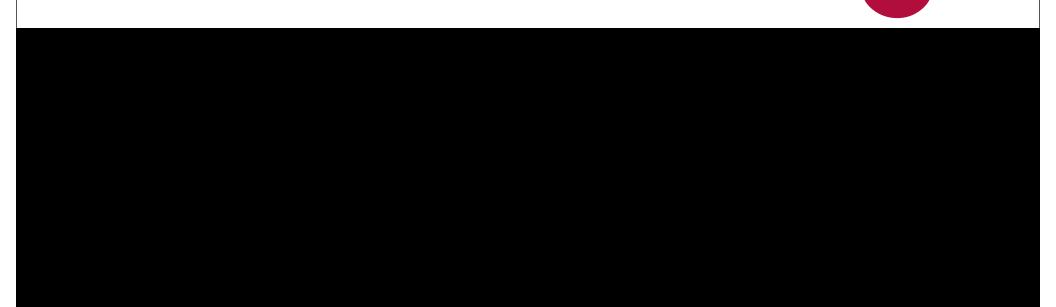


#### You can lecture a little.

6

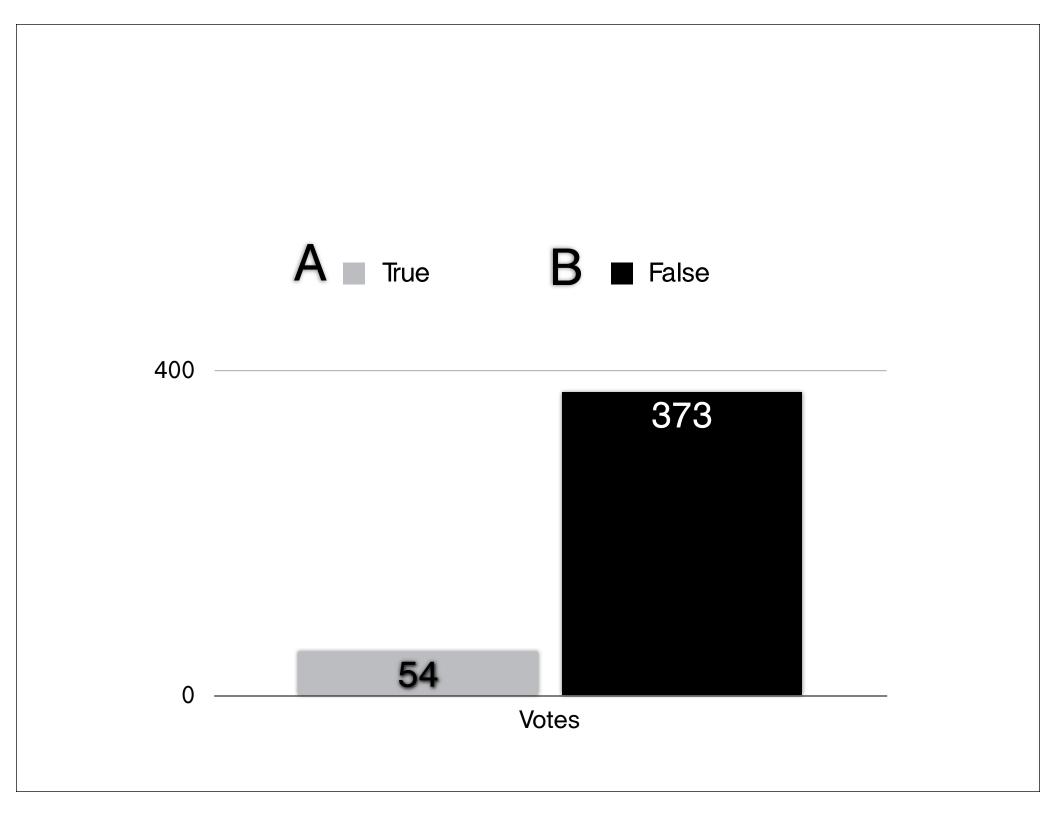
# Tip: Flipping builds prior knowledge loops, so more engaged in lecture.

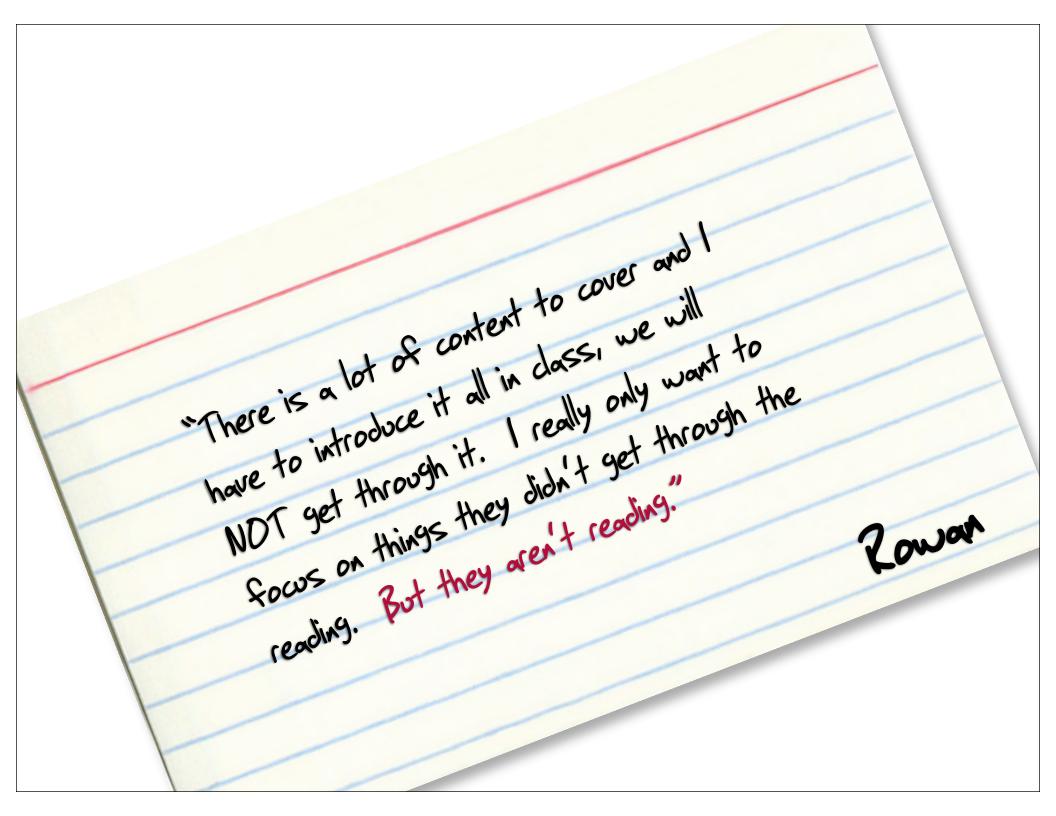
#### How do I flip my class

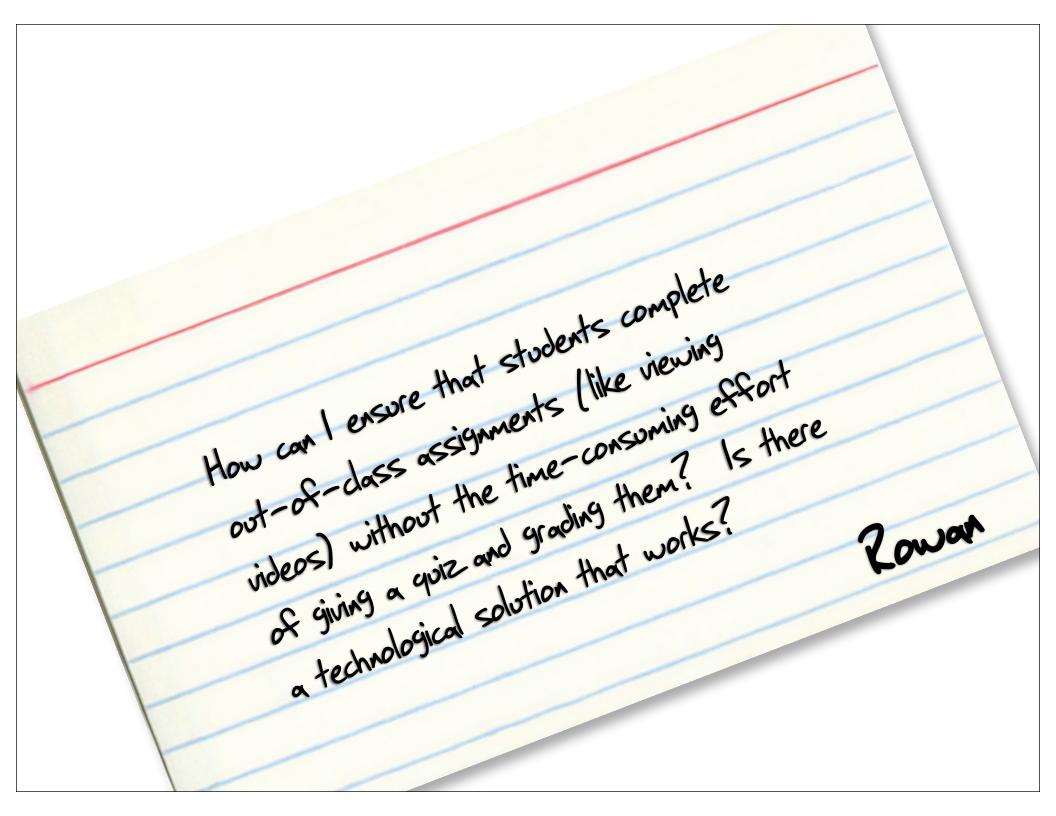


## My students will not do out-of-class work, even with credit for doing so.

A. True B. False







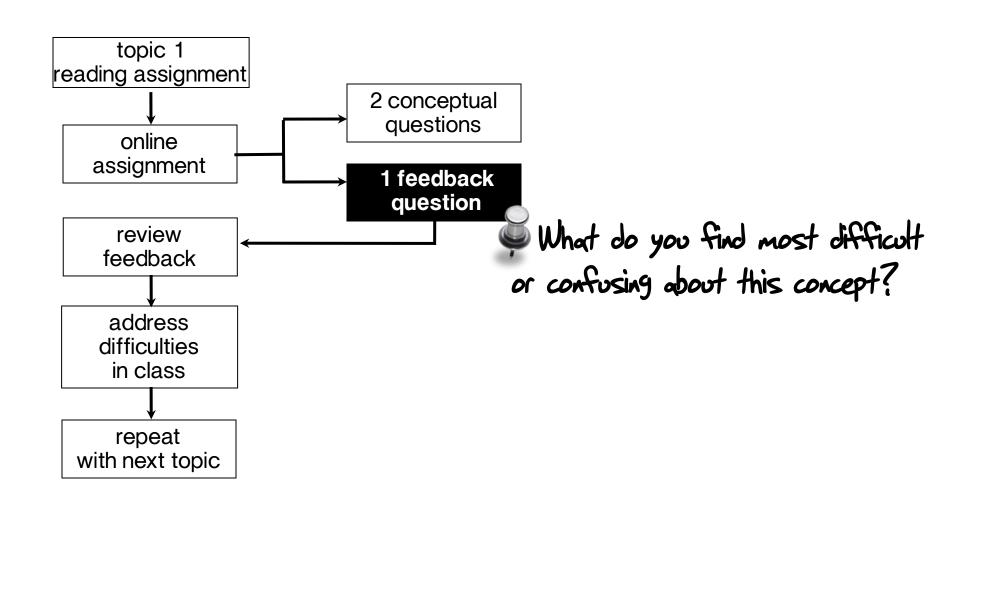


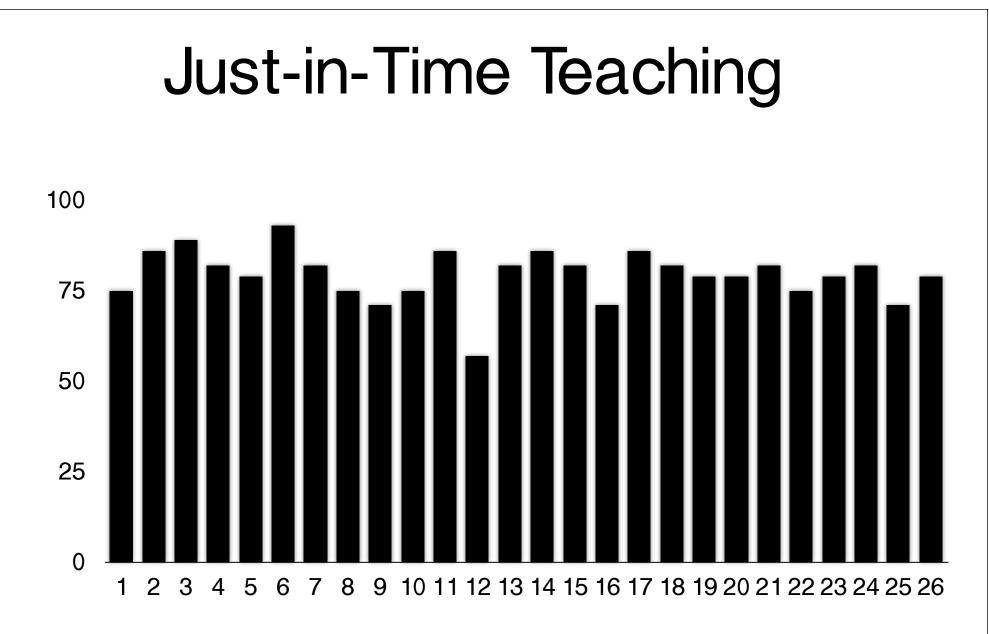


#### Tip: Assess pre-class content via low-stakes and high-stakes evaluations.

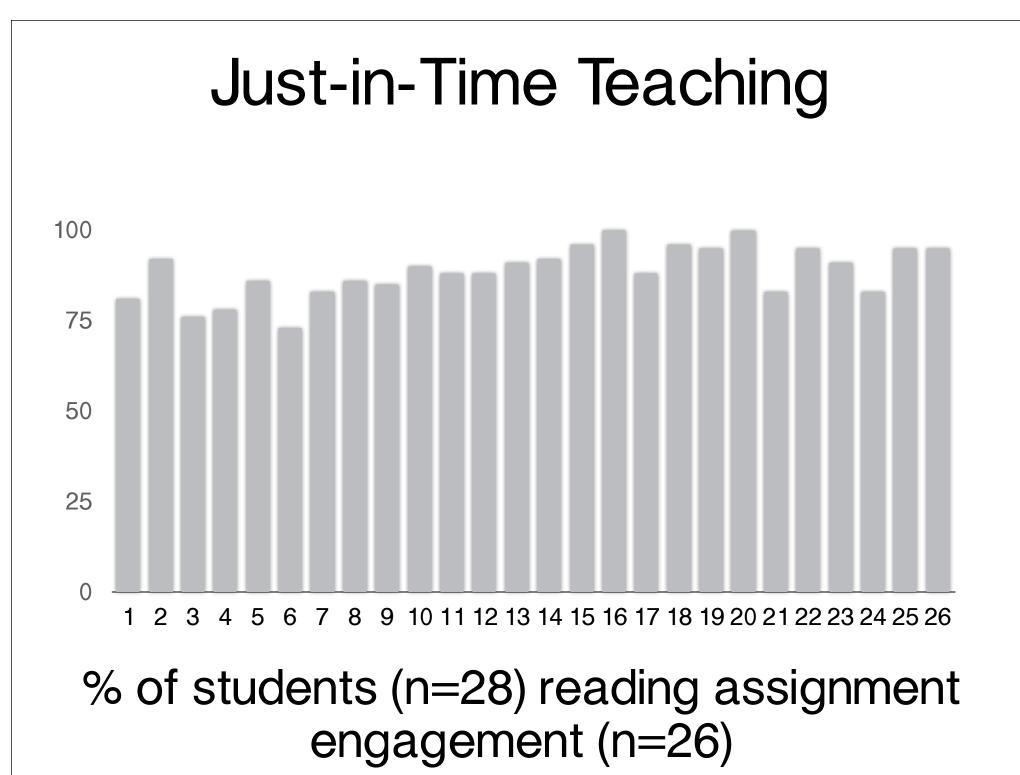
## Tip: Favorite out-of-class tool = Just-in-Time Teaching

#### Just-in-Time Teaching





## % of students (n=28) completing reading assignment (n=26)



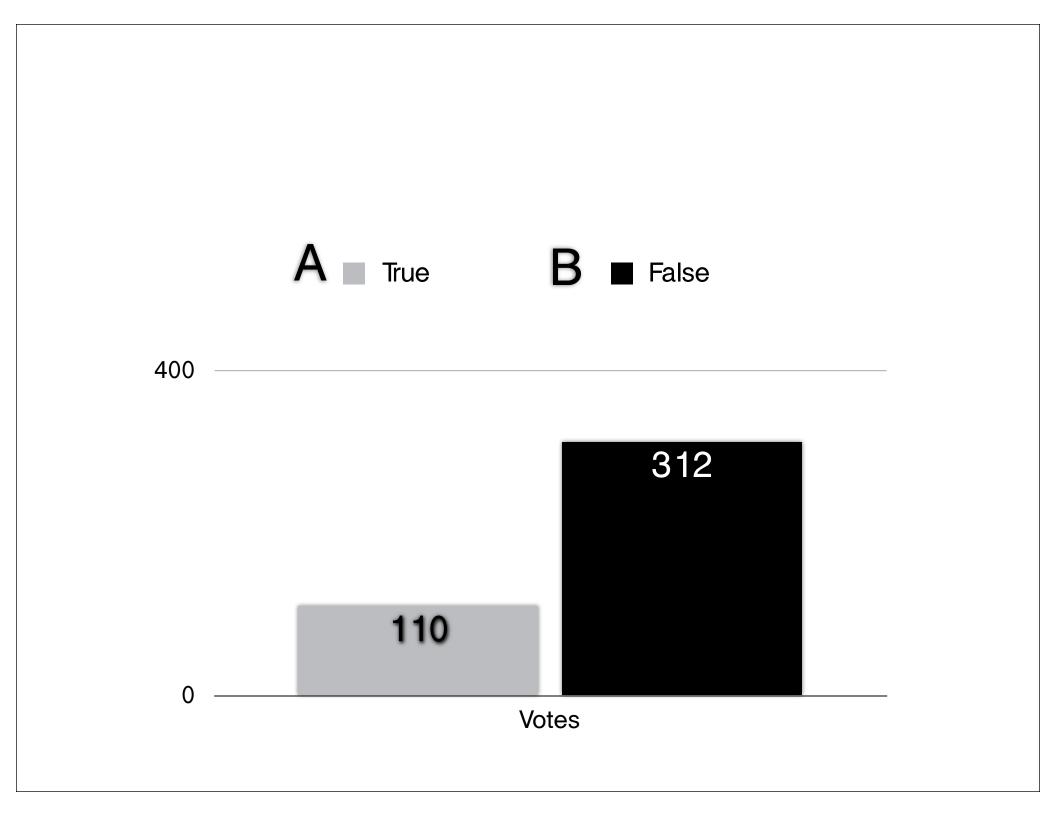
#### If you assess it, they will come.

7

#### There is one right way to flip a class.

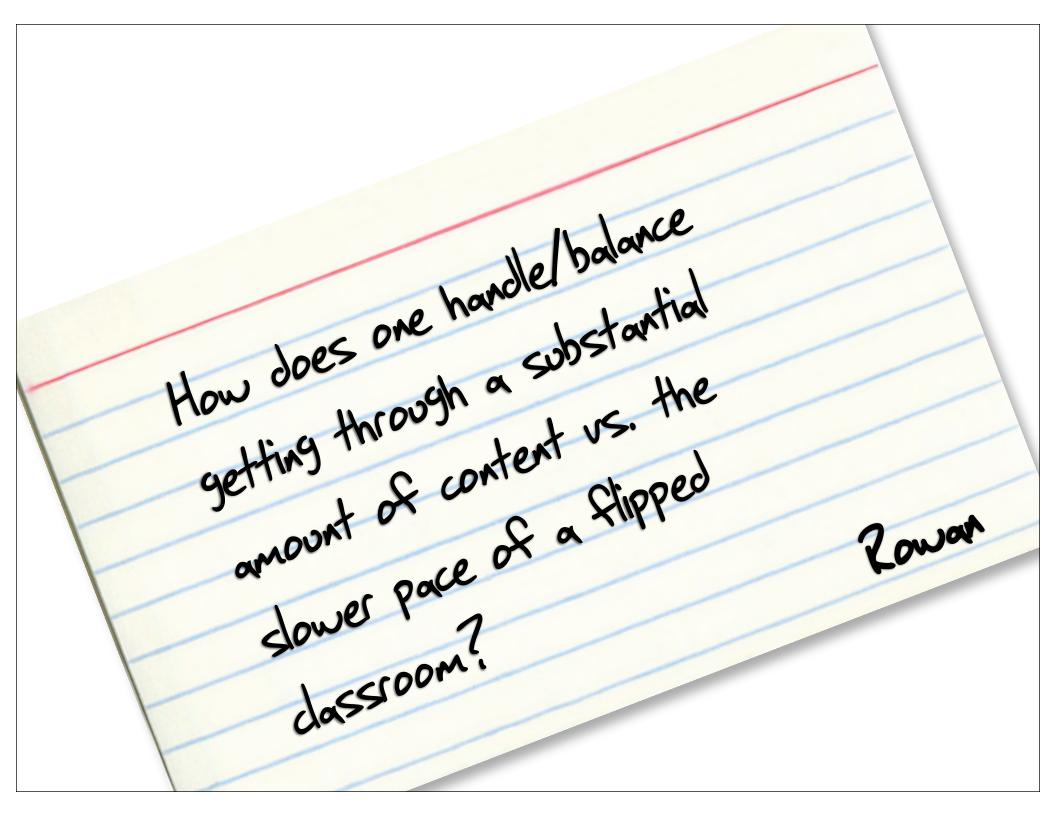
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A. True B. False



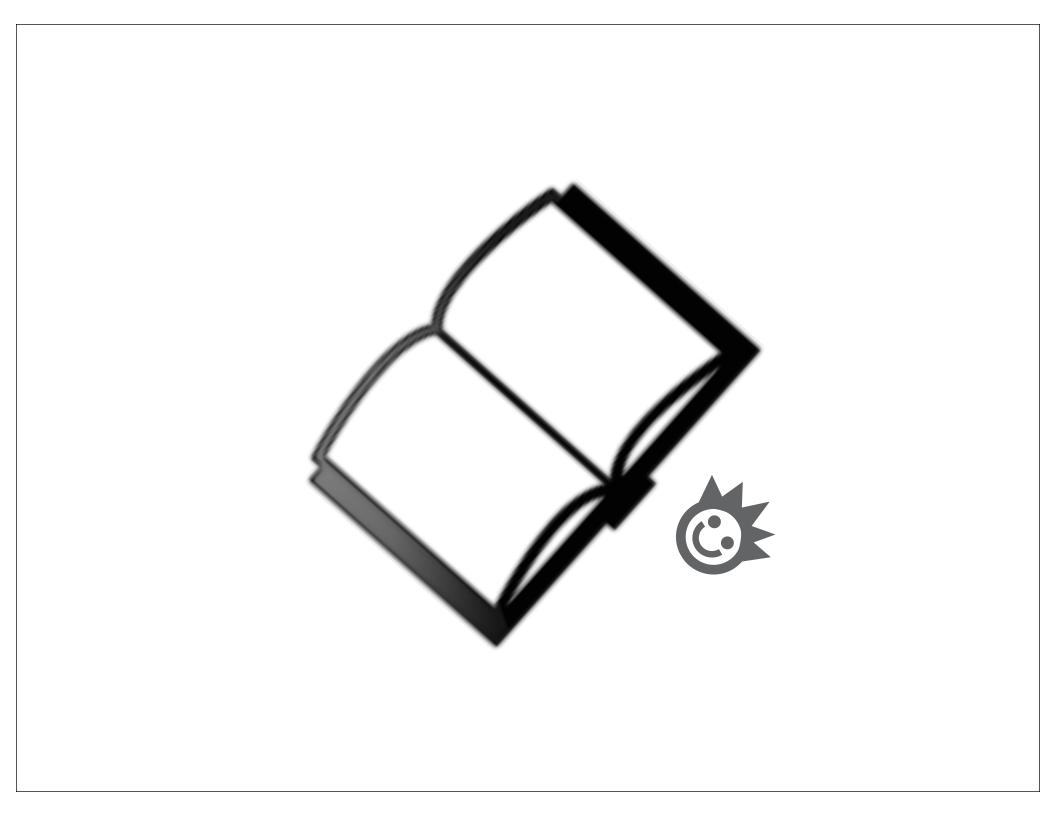
# There are many ways to flip a class and no one right way.

#### **2 Key Characteristics**

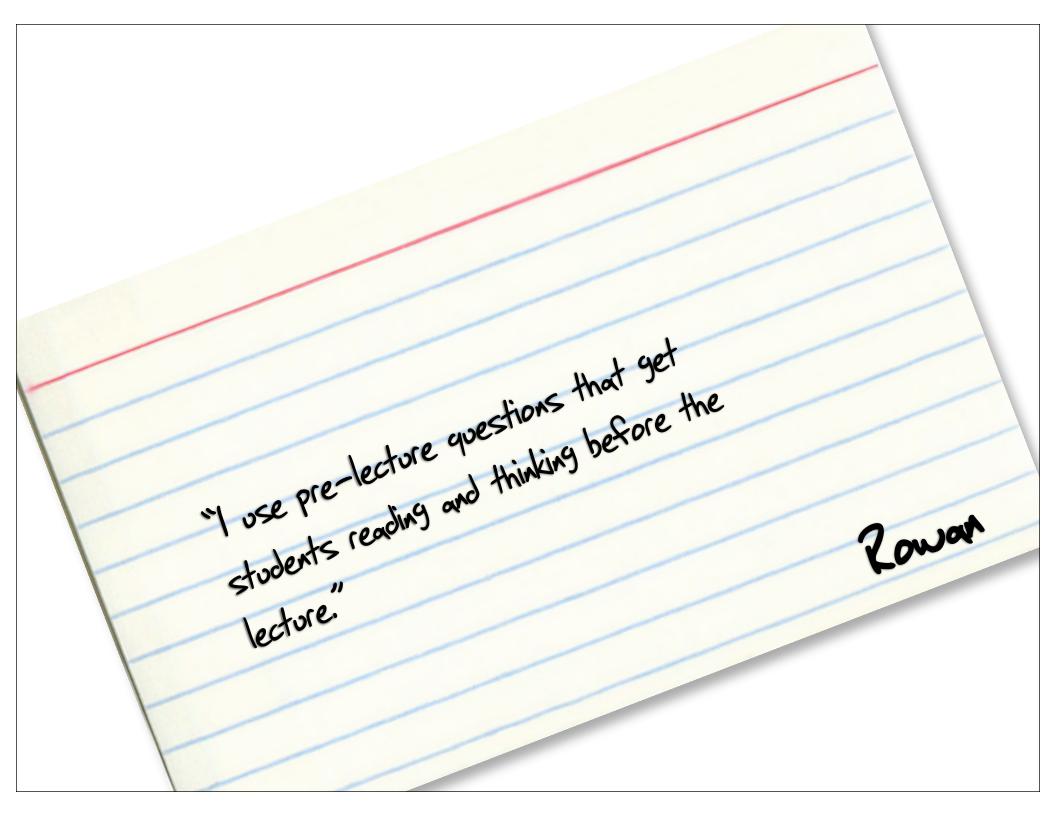


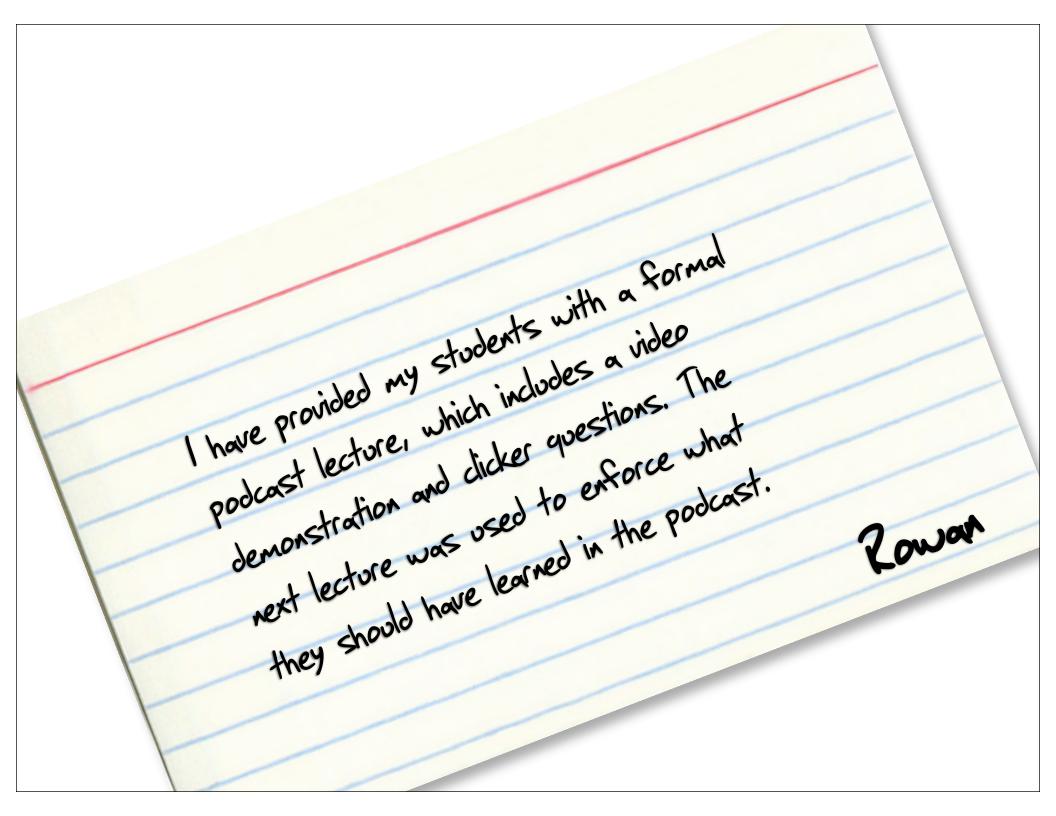


# Has more first exposure before class



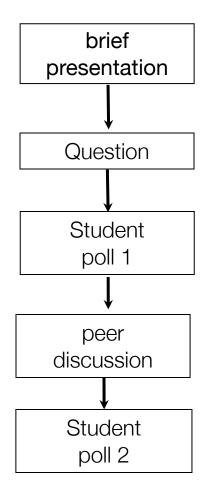
#### and more application in class

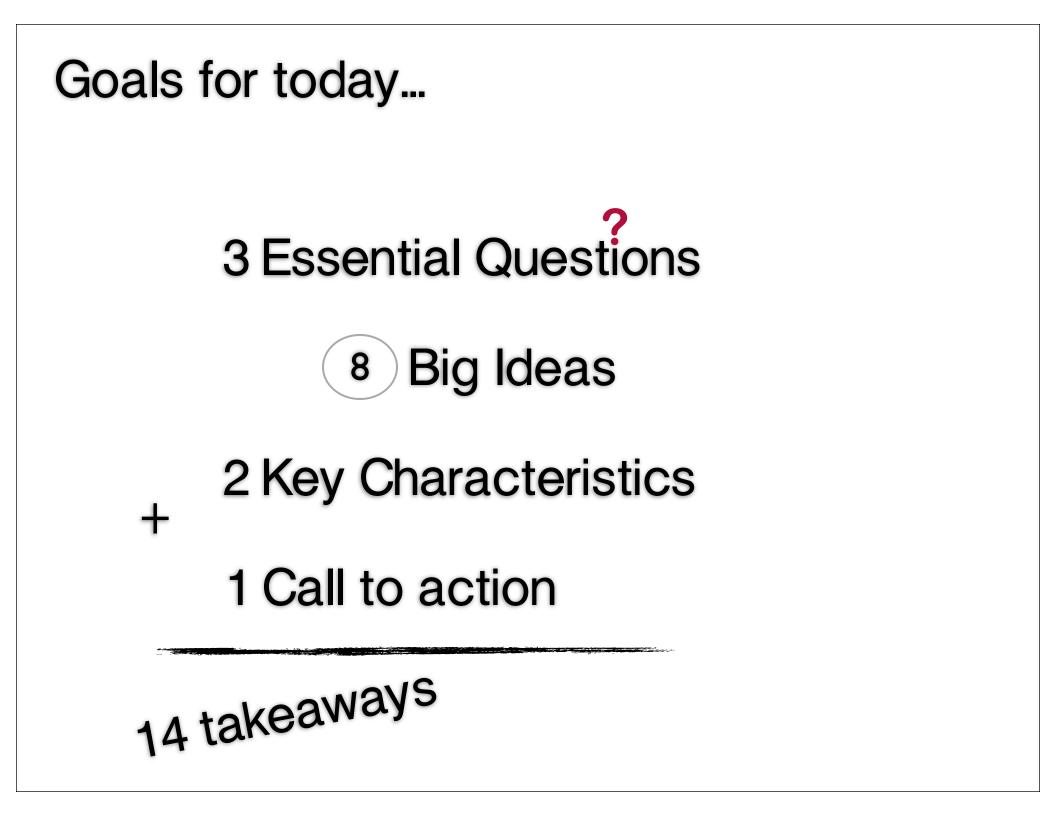




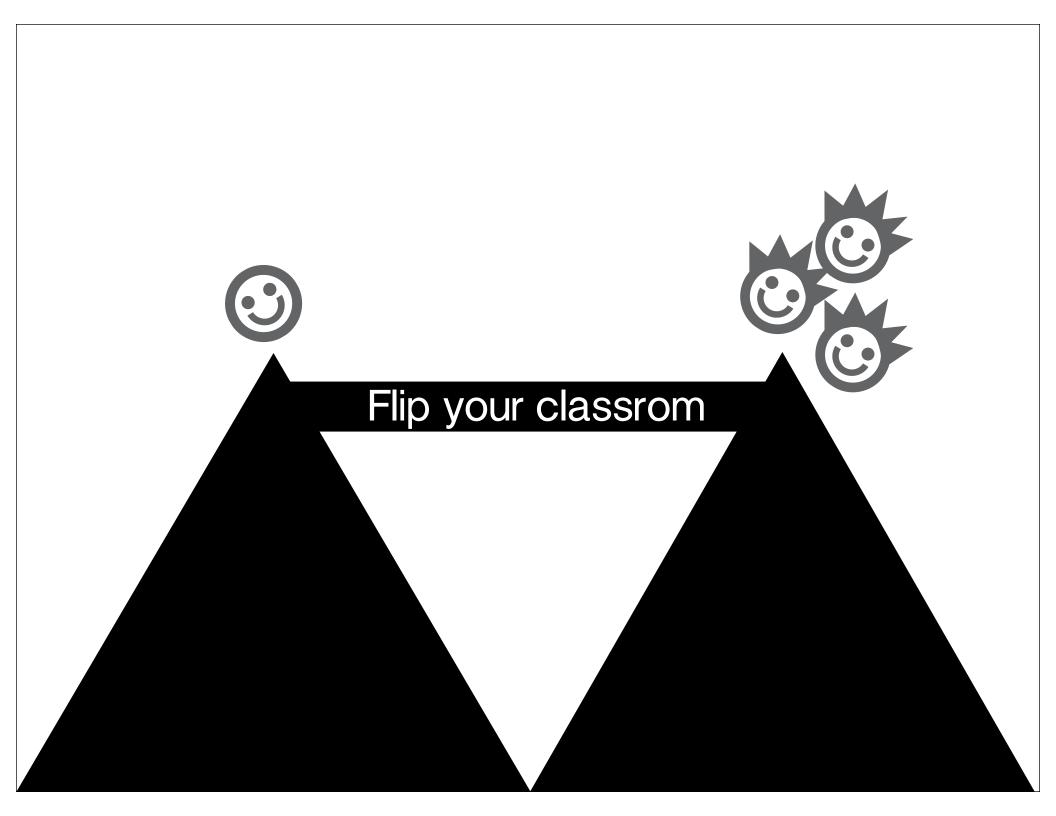
## Tip: Favorite in-class tool = Peer Instruction

## Peer Instruction





# What do you want me to do, Julie?





#### Call to action- FLIP

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

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



brianna girlie @bripaigegirlie

33 mins

I hate school. I hateschool. I HATE school. I h8 school. I hate skool. Ih8skool. I. hate. school. Eye h8 skool. I HATE SCHOOL. **#ihateschool** Expand **•** Reply **13** Retweet **\*** Favorite **•••** More



Tyson\_Awesome @tegrinse6146 hrstoday I developed my own proof for pythagorean's theorem. wooooyeah baby #genius

Expand



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### Acknowledgements

PEDPLE Eric Mazur

lves Araujo Cassandre Alvarado Brian Lukoff Dan Meyer Nancy Duarte BODKS Flip Your Classroom Peer Instruction a User's Manual Just-in-Time Teaching Slide: Dlogy

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