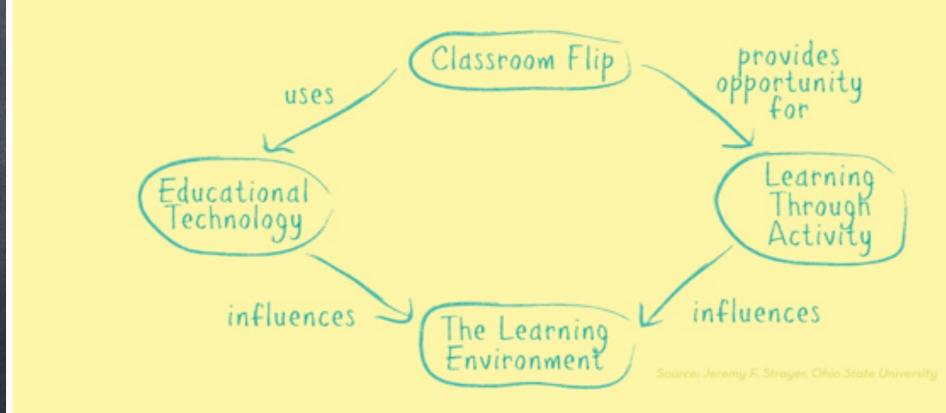
What is all the buzz about?

A THEORETICAL FRAMEWORK

Educational technology and activity learning are two key components of the flipped classroom model. They both influence student learning environments in fundamental ways.

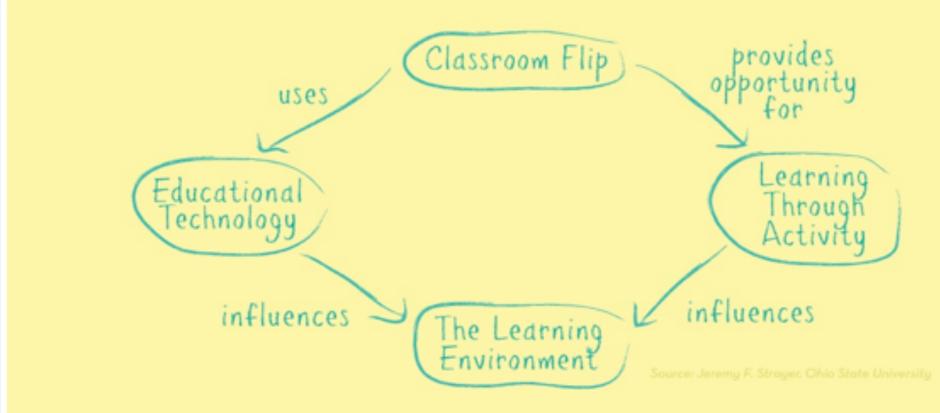


The Flipped Classroom:

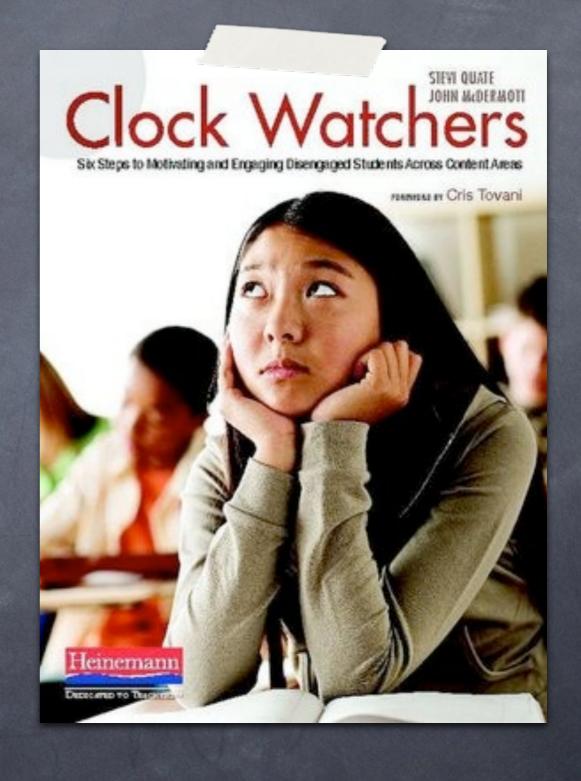
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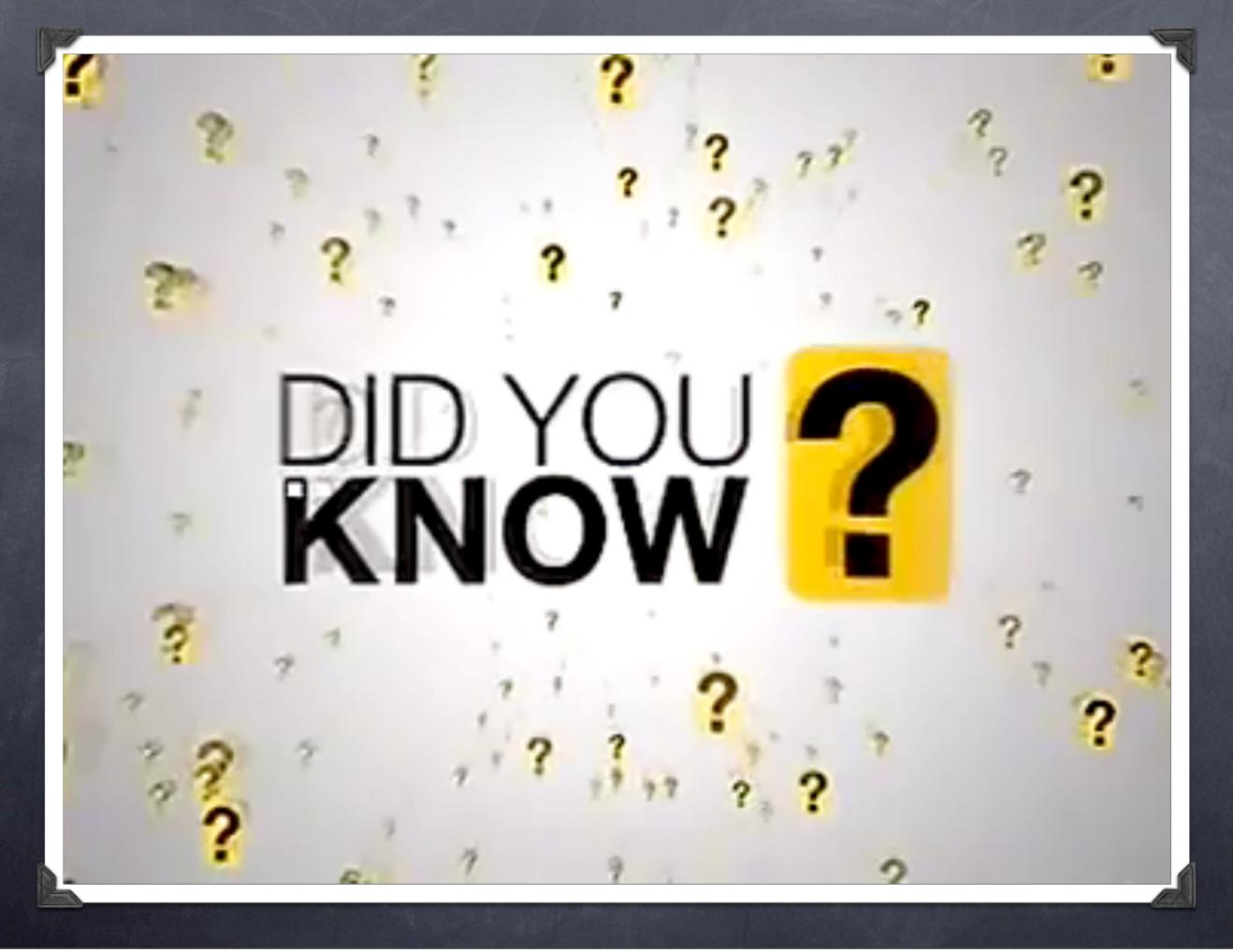
A THEORETICAL FRAMEWORK

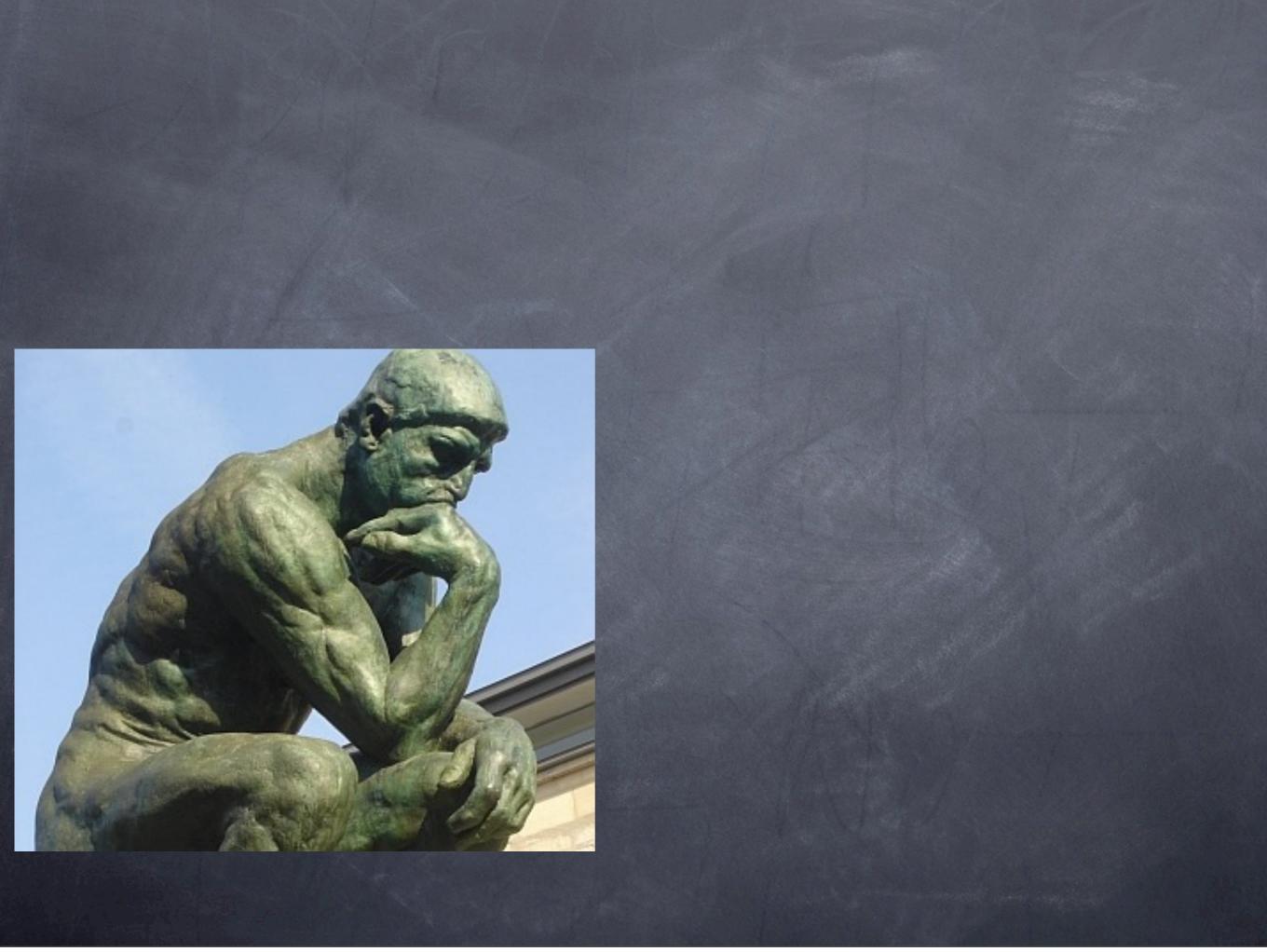
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Why do students seem less engaged?

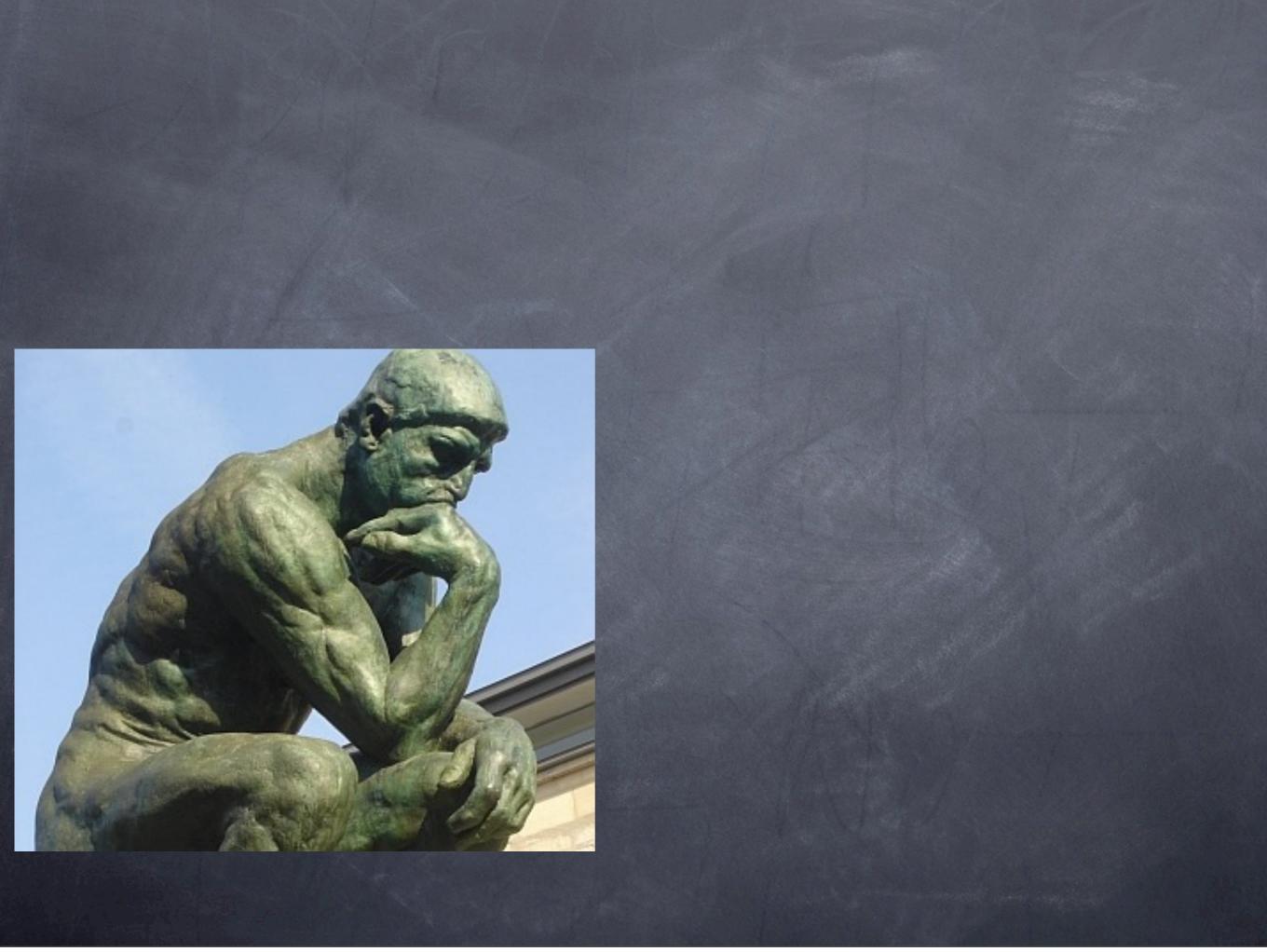






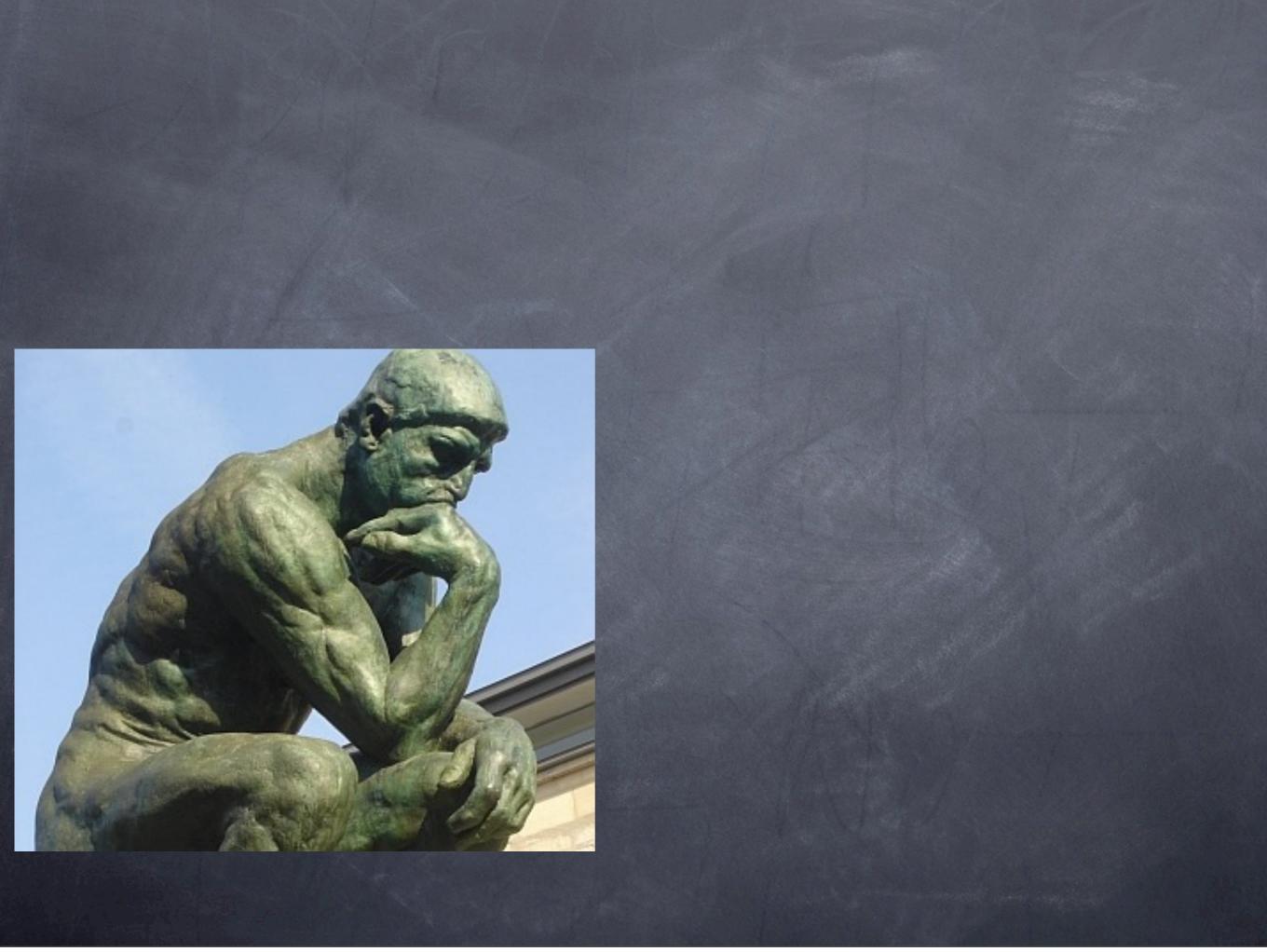
Friday, March 2, 2012



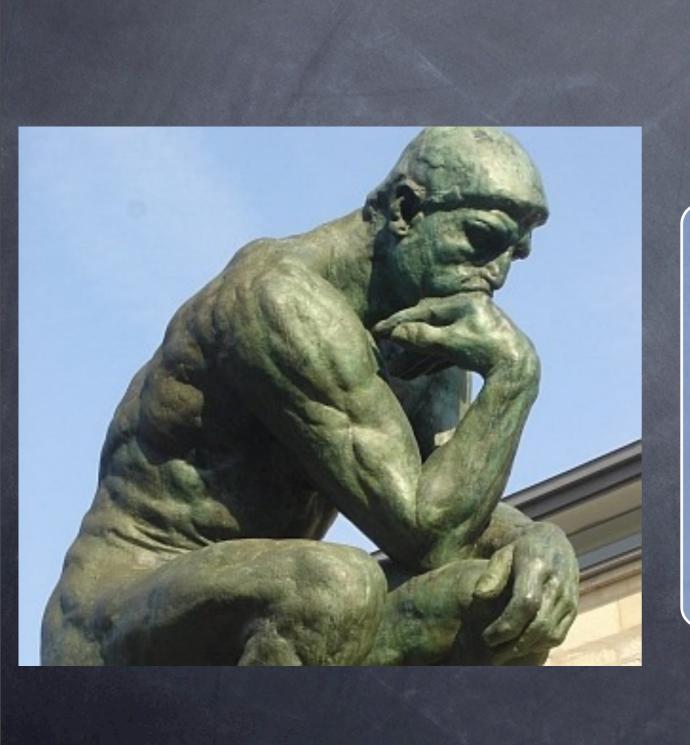


Friday, March 2, 2012

Do you want to maximize class time?



Friday, March 2, 2012



Perhaps "Flipping" is for you

a synonym for online videos

- a synonym for online videos
- replacing teachers with video

- a synonym for online videos
- replacing teachers with video
- a way to make class size larger

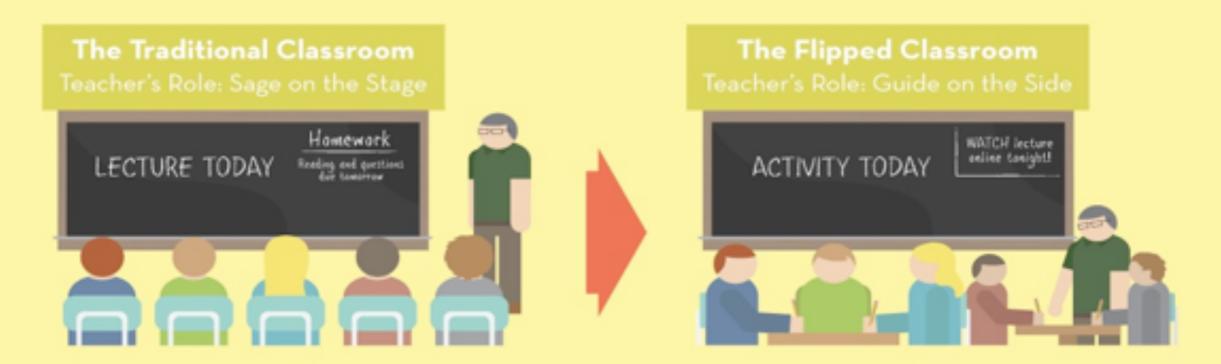
- a synonym for online videos
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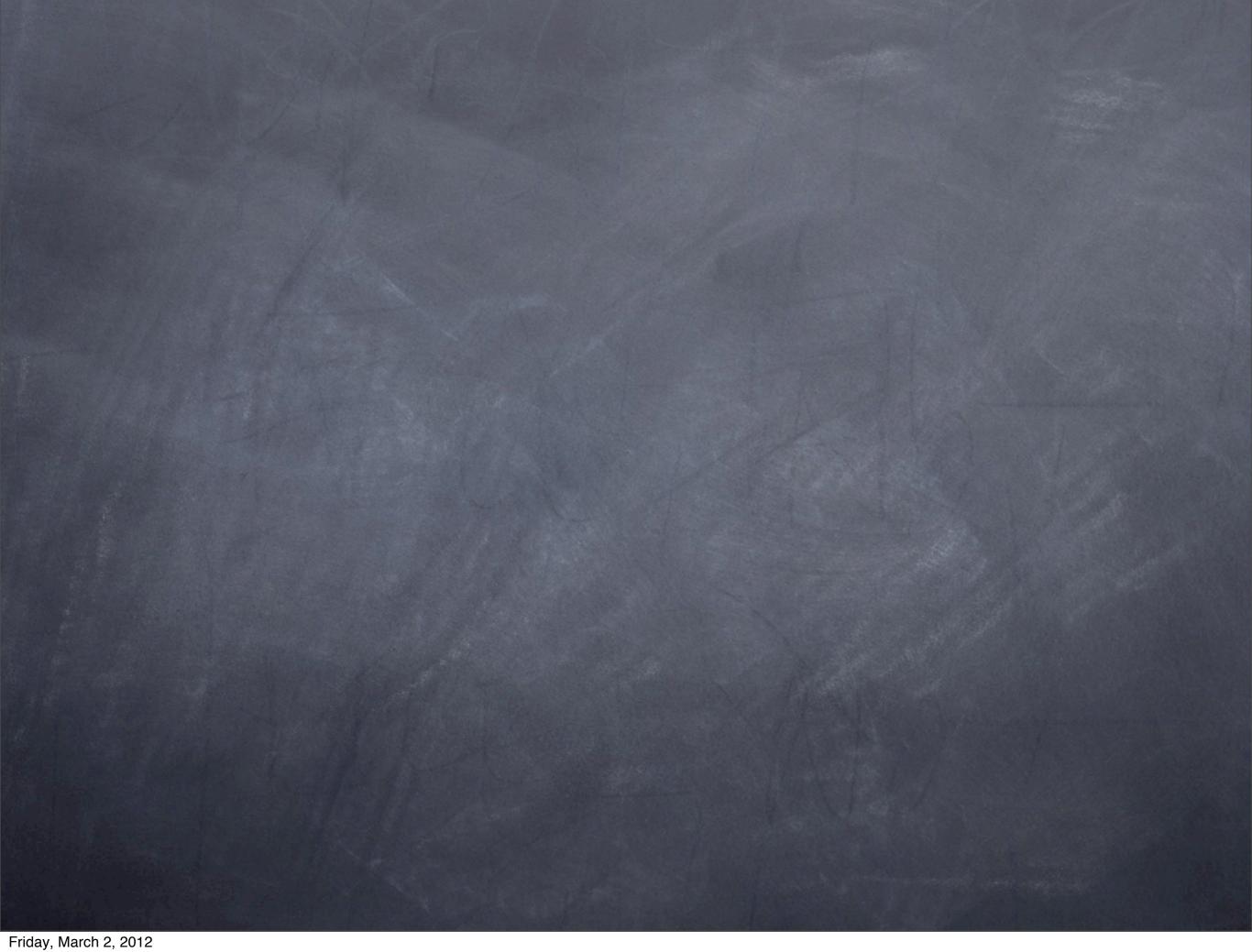
- a synonym for online videos
- replacing teachers with video
- a way to make class size larger
- an online course
- students spending the entire class sitting at a computer

WHAT IS THE FLIPPED CLASSROOM?

The flipped classroom inverts traditional teaching methods, delivering instruction online outside of class and moving "homework" into the classroom.

THE INVERSION

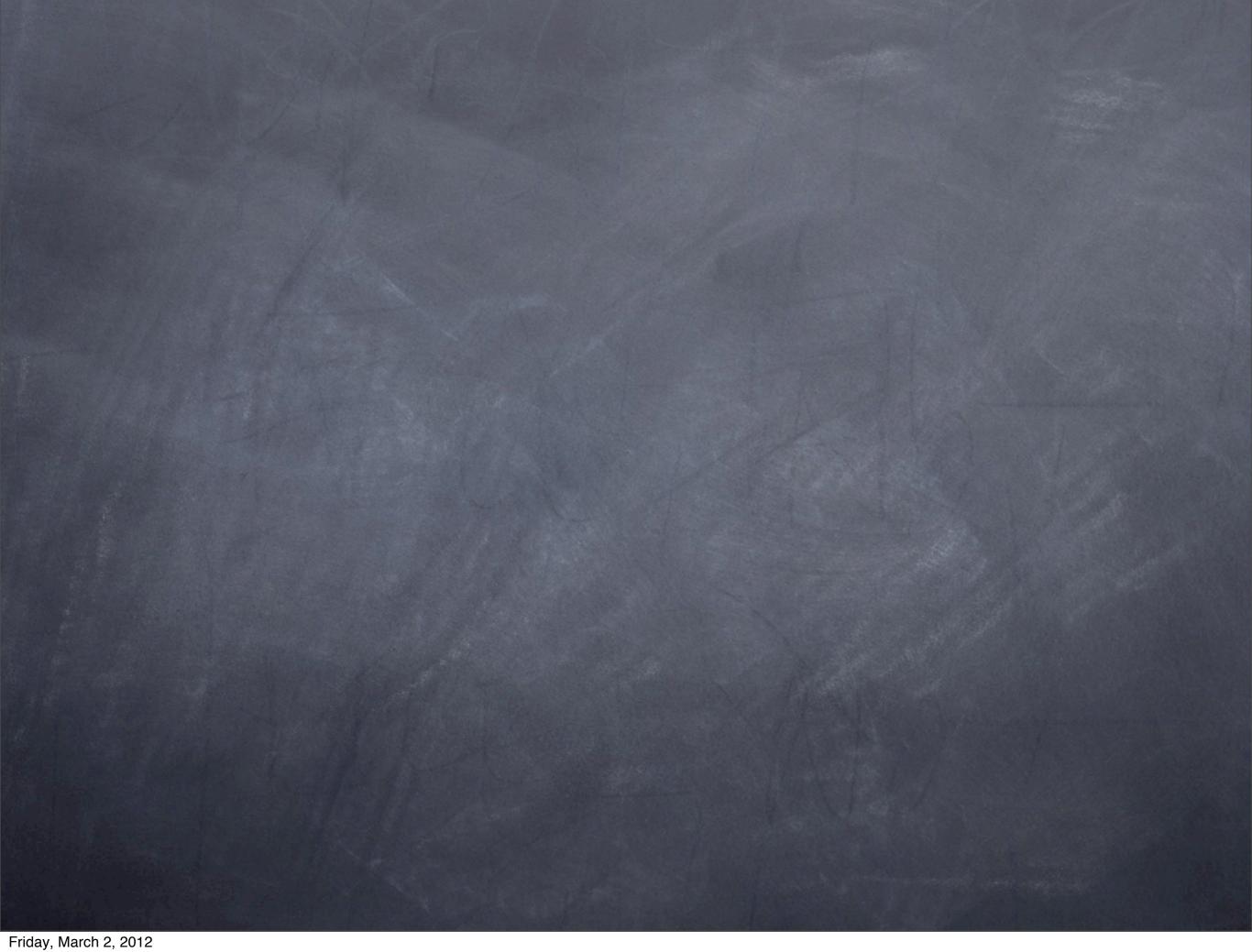




WHAT A FLIPPED CLASSROOM MODEL DOES



- Students watch lectures at home at their own pace, communicating with peers and teachers via online discussions.
- Concept engagement takes place in the classroom with the help of the instructor.



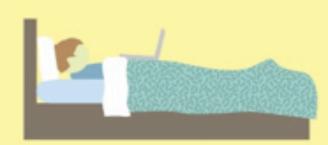
HOW IT CAME TO BE

Many factors influenced the creation and adoption of the flipped classroom model. However, two specific innovators played a key role.

ITS INFANCY.....



2007: Teachers Jonathan Bergman and Aaron Sams at Woodland Park High School in Woodland Park, CO, discovered software to record PowerPoint presentations



They recorded and posted their live lectures online for students who missed class.



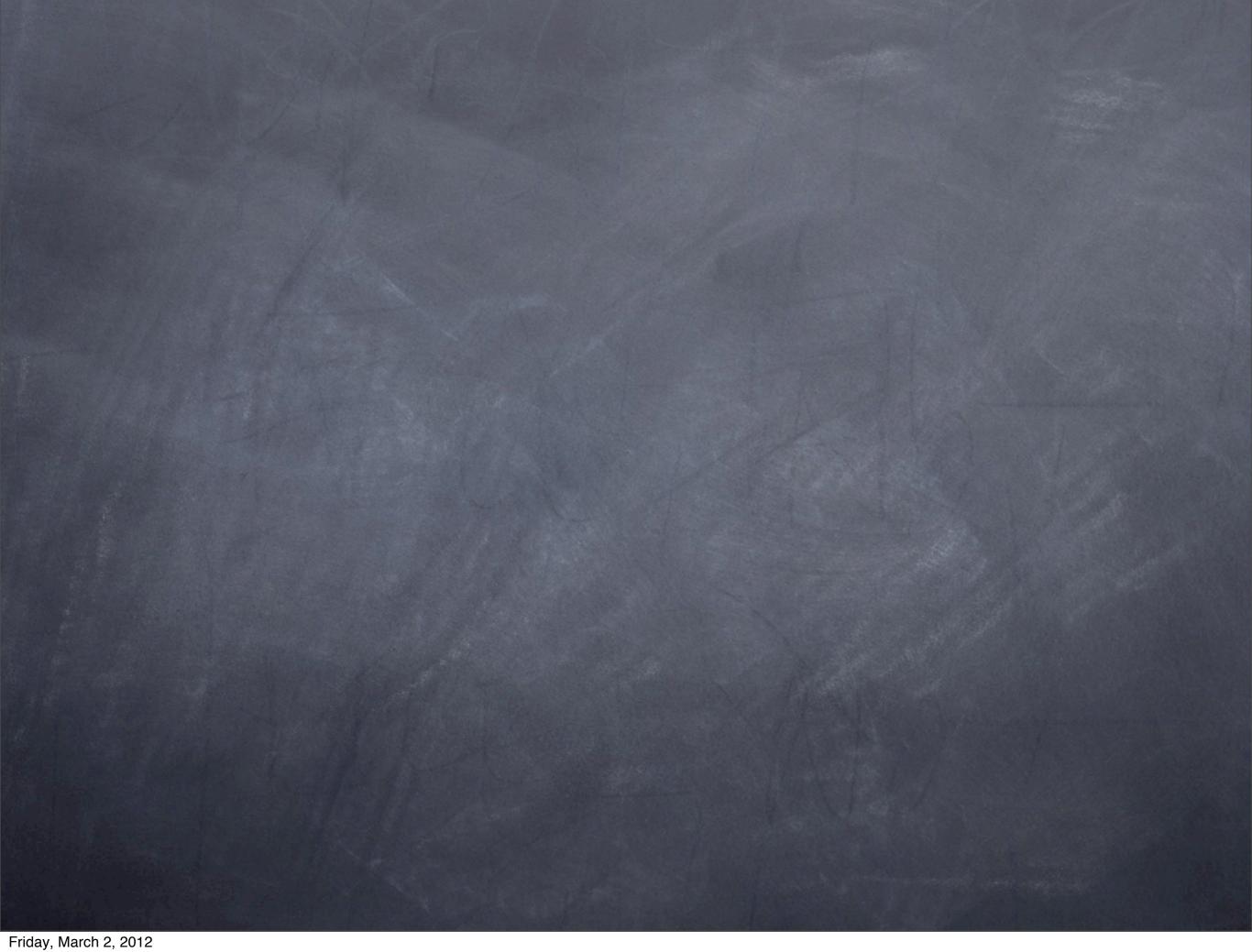
Bergman and Sams were asked to speak to teachers around the country about their methods.



The online lectures started spreading.



Teachers began using online videos and video podcasts to teach students outside class, reserving class time for collaborative work and concept mastery exercises.



WHAT'S DRIVING IT?

Two key factors are driving increased adoption of the flipped classroom model.

POOR LEARNING OUTCOMES

The traditional one-size-fits-all model of education often results in limited concept engagement and severe consequences.

69% graduate 31% don't

Only 69% of students who start high school finish four years later.



Yearly High School Dropouts

An average of **7,200** students DROP OUT of high school each day, totalling **1.3 million** a year.

PREVALENCE OF ONLINE VIDEO

The availability of online video and increasing student access to technology has paved the way for flipped classroom models.

Adults Who Have Viewed an Online Educational Video

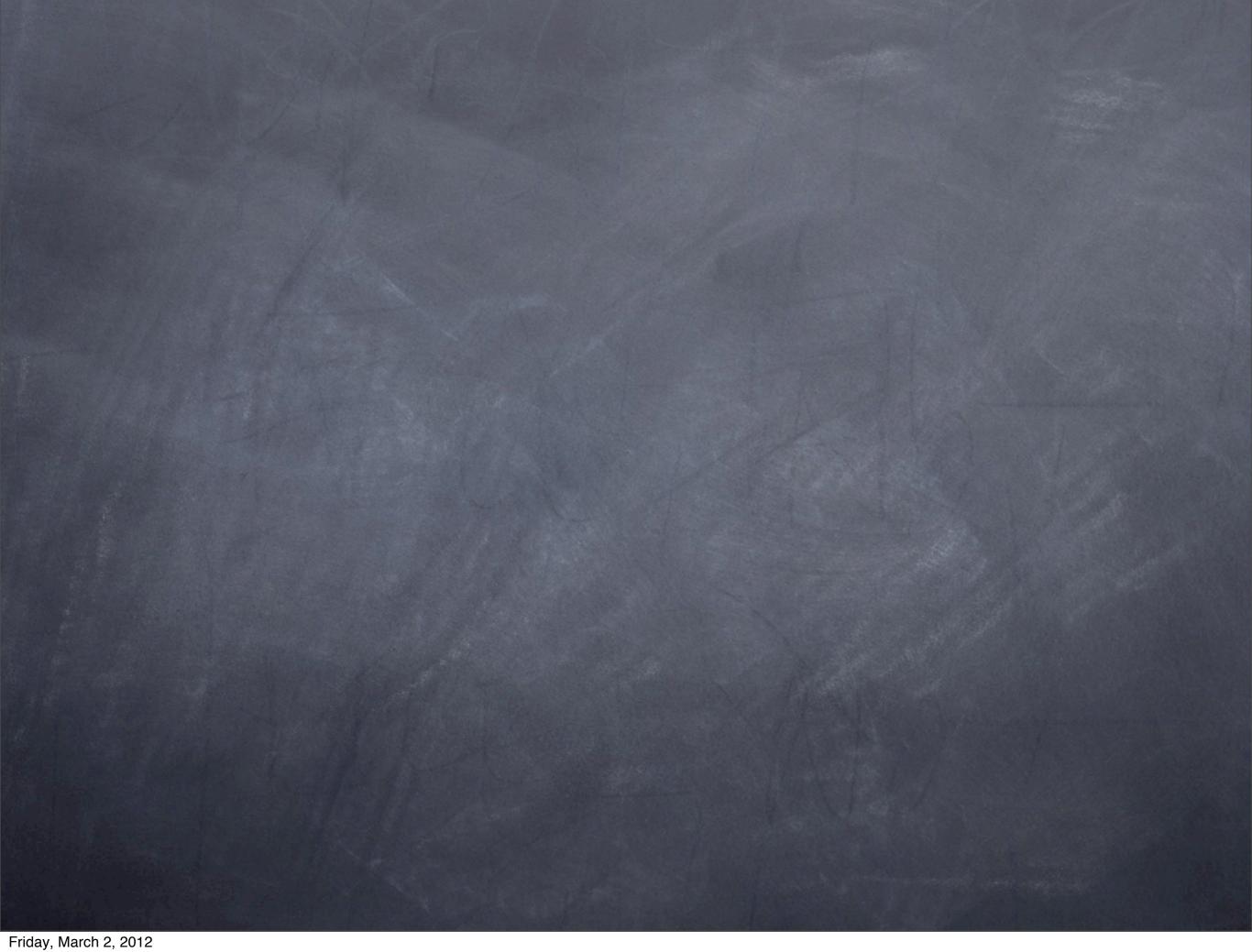
2007

15% of Internet Users

2010

30% of Internet Users

+2,400 online video lessons in Khan Academy



THE RESULTS

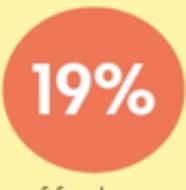
BEFORE THE FLIP

+50%
of freshmen
failed English

44% of freshmen failed math

736 discipline cases in one semester

AFTER THE FLIP



of freshmen failed English

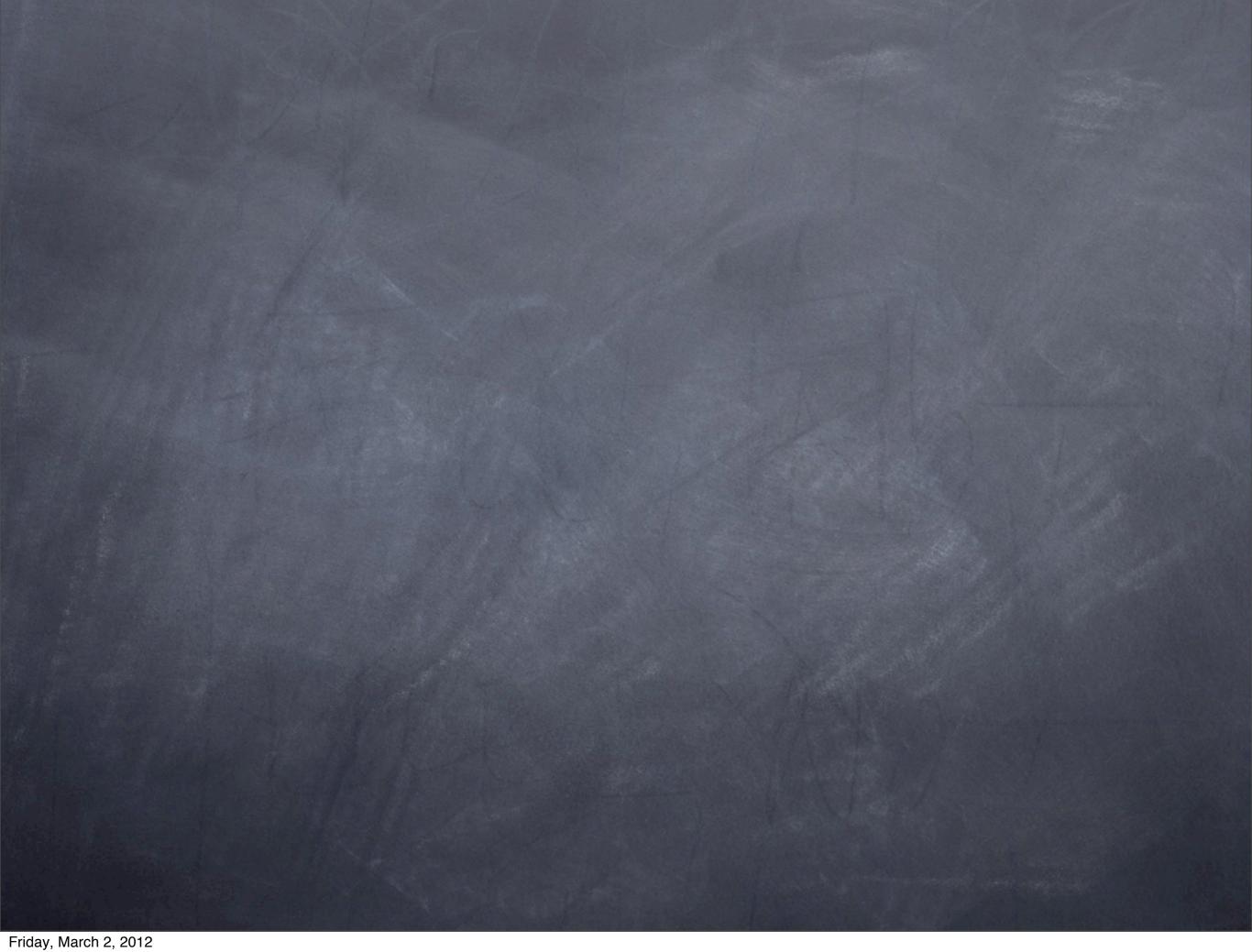


failed math

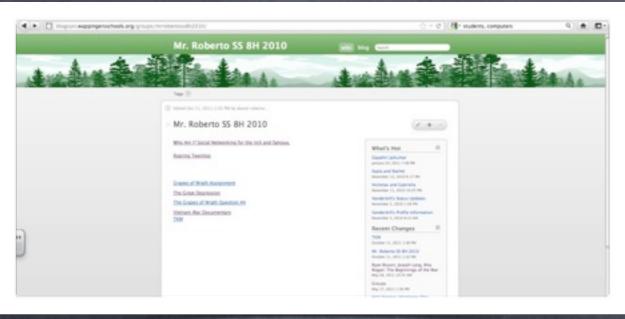
249 discipline cases in one semester

Sources: Jeremy F. Strayer, Ohio State University | Flipped Class Conference 2011 | Telegraph.co.uk | Blendedclassroom.blogspot.com | Khan Academy | Education Week | Converge Magazin

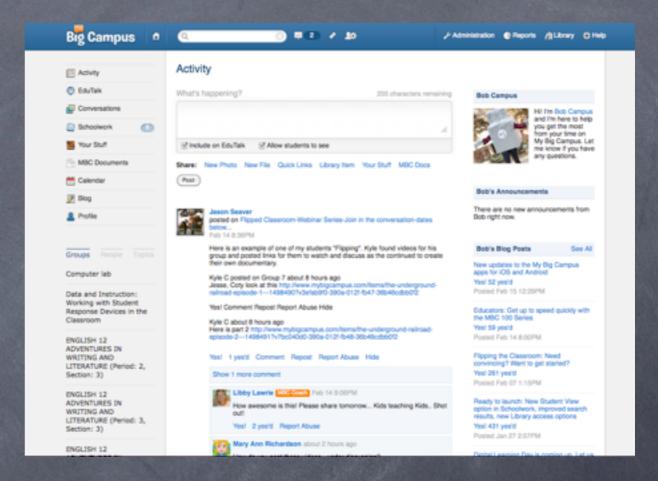




Examples:









lessons archived



- lessons archived
- students can watch at their own pace



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- students can watch at their own pace
- differentiate learning



- lessons archived
- students can watch at their own pace
- differentiate learning
- more time for critical thinking and group analysis

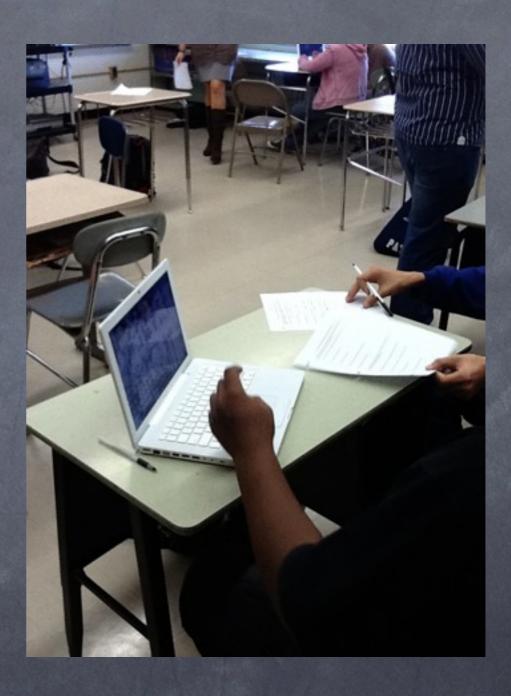


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- students take ownership of learning

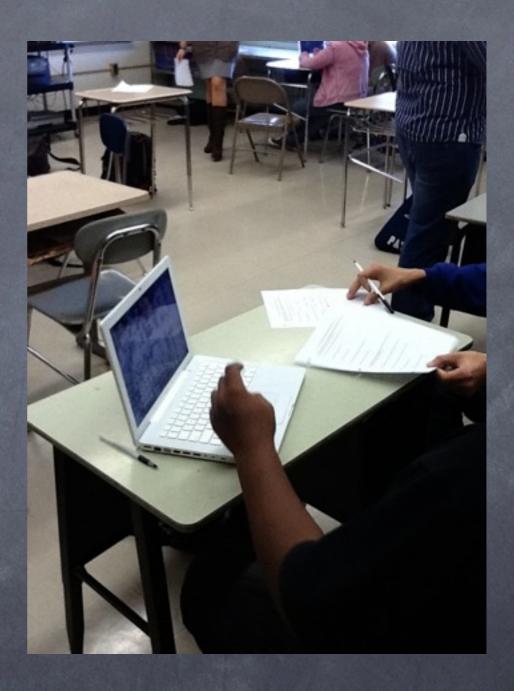


- lessons archived
- students can watch at their own pace
- differentiate learning
- more time for critical thinking and group analysis
- students take ownership of learning
- Increased interaction and personalized contact time

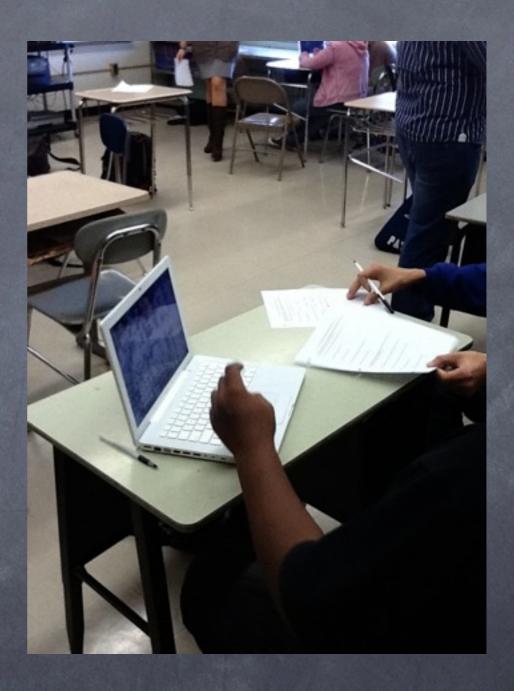




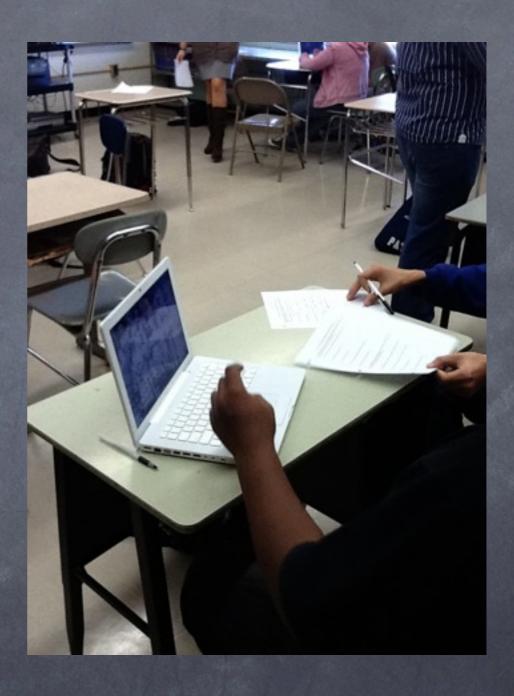
some students will be at a technological disadvantage



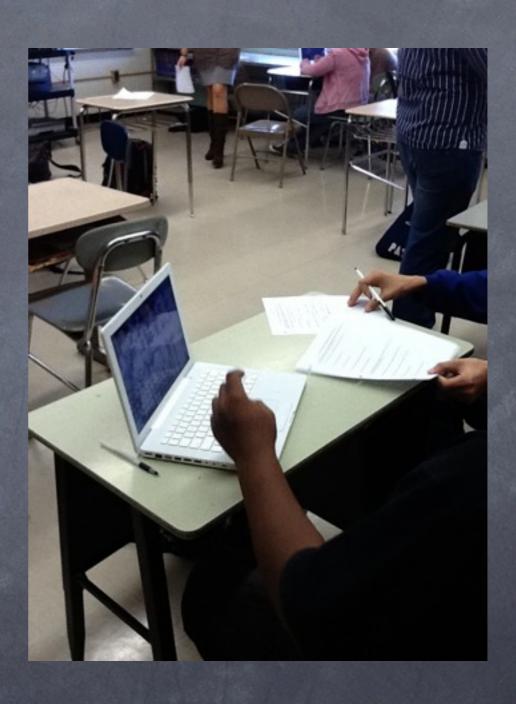
- some students will be at a technological disadvantage
- learn new technologies



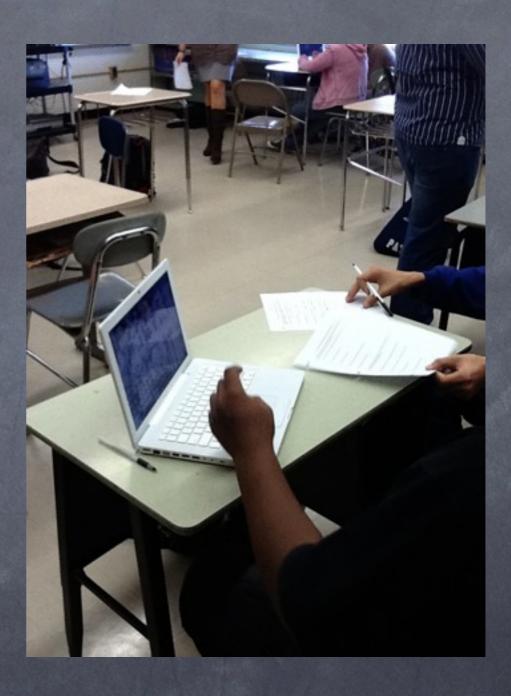
- some students will be at a technological disadvantage
- learn new technologies
- Be willing to commit the time



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- shift your ideas of where the walls of the classroom begin and end



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- shift your ideas of where the walls of the classroom begin and end
- o infrastructure





reflect on your teaching style



- reflect on your teaching style
- focus on the classroom experiences you would like to create



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- ask yourself, do I spend class time teaching procedural, low-level concepts?



- reflect on your teaching style
- focus on the classroom experiences you would like to create
- ask yourself, do I spend class time teaching procedural, low-level concepts?
- begin creating opportunities for students to learn these concepts outside of class



Tools:

Creating

Hosting

- Smart Recorder
- QuickTime Player (Mac)
- Jing
- Screencast-o-matic
- Educreations
- Show Me
- Vodcasting
- ScreenChomp
- Camtasia

- My Big Campus
- Google Sites
- Pen.io
- Wordpress
- Blogger
- SchoolWires
- Weebly
- Ning

Resources:

- http://wappingersschools.org/Page/252
- http://flipteaching.com
- http://www.khanacademy.org/
- http://www.edutopia.org/blog/flippedclassroom-best-practices-andrew-miller