

FLIPPING

the classroom

an After School Workshop at ROCTE

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What is a “flipped” classroom?

- ▶ The exact opposite of the historical method
 - Lecture is done AT HOME
 - Homework is done AT SCHOOL

- ▶ HOW?
 - Lectures posted online
 - Podcast
 - Original teacher-created video
 - Other relevant videos from the web
(not the preferred choice)

The Basics...

At HOME

- ▶ Students watch lectures
- ▶ Basic knowledge base is built

At SCHOOL

- ▶ Students complete homework with guidance
- ▶ Group projects are completed
- ▶ Questions are clarified
- ▶ Interaction increases

Why “flipping” makes sense

▶ HOMEWORK @ home

- Parents struggle to help
- Students can feel helpless
- Cheating often occurs
- Frustration can be high

▶ HOMEWORK @ school

- Guided/assisted by teacher
- Group projects facilitated
- More one-on-one
- Differentiated instruction

Why “flipping” makes sense

▶ LECTURE @ School

- Distractions
- Material is presented once
- No ability to pause, rewind, repeat
- Absent students miss out
- Parents are not present

▶ LECTURE @ Home

- Students watch...parents can too!
- Watch multiple times to learn...even more to review
- Basic knowledge base is built prior to class
- Time in class to practice higher order skills

The Flipped Classroom

- ▶ Paradigm Shift
- ▶ A significant change in structure to reflect the significant change in our world
- ▶ **It is 2012**
- ▶ Hesitation/reservations are expected
- ▶ Student response is overwhelmingly positive
- ▶ Practice of skills and involvement increases
- ▶ Remediation becomes easier

Creating a lecture video

- ▶ One take
- ▶ Up close and personal
- ▶ Can use “paperslides”
- ▶ Short (5–10 minutes) is possible because
 - No review
 - No questions
 - No classroom management
 - It’s like fast-forwarding through commercials!

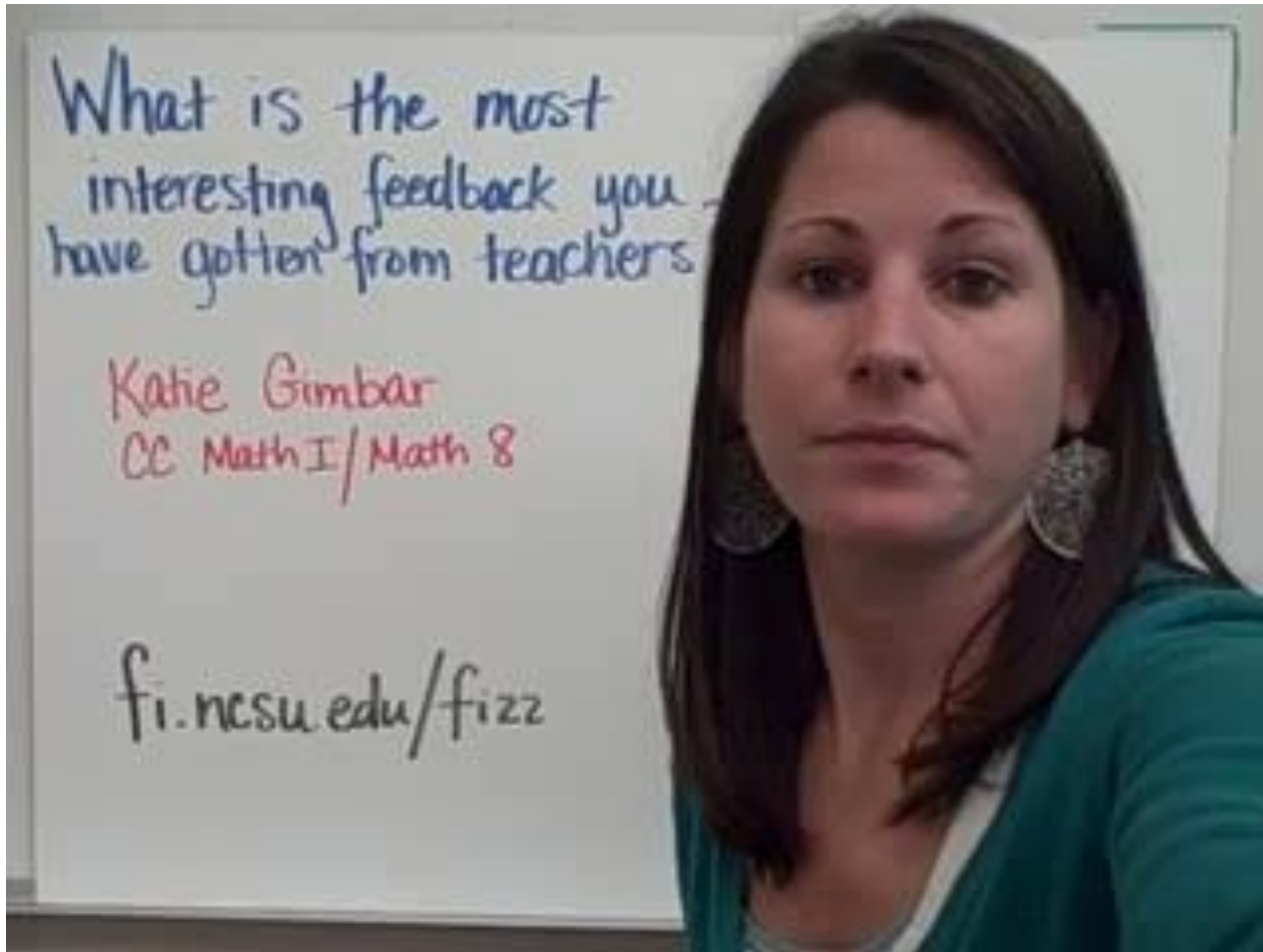
Implementation

- ▶ At your comfort level
 - One class at a time...one unit at a time...
- ▶ Videos
 - Stored on site of choice (based on district guidelines)
 - Youtube
 - Schooltube
 - Google Docs
- ▶ Screencasts
 - Screencast-o-matic (free online)
 - Can store on their site or upload to Youtube

The results

- ▶ You lecture ONCE
- ▶ Students hear the lecture UNLIMITED times

What teachers are saying...



When we “flip” the classroom...

*The technology makes the classroom a
MORE PERSONAL environment with
MORE FACE TO FACE interaction.*

Concerns and negative opinions:

- The teacher isn't even teaching anymore
- The kids won't watch it
- Totally detaches the teacher from the students
- I don't have the technology available

How do we respond??

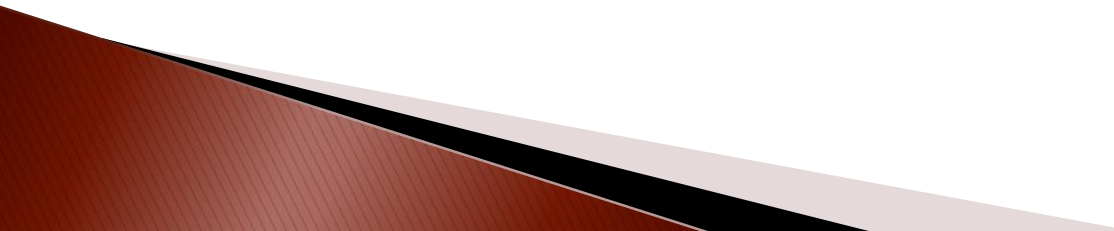
Leaders in the field

- ▶ Johnathan Bergmann & Aaron Sams
 - Chemistry Teachers
 - Have been “flipped” since 2007(ish)
 - Authors of: *Flip Your Classroom: Reach Every Student in Every Class Every Day*

- ▶ Katie Gimbar
 - Middle School Math Teacher
 - Has been flipped for 2 years

- ▶ The Friday Institute
 - North Carolina State University
 - Training materials online
 - <https://www.fi.ncsu.edu/project/fizz/>

Examples

- ▶ Math Classes
 - ▶ Consumer Education 1
 - ▶ Consumer Education 2
 - ▶ Consumer Education 3
 - ▶ Computer Education
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Watch some samples...

Katie's Math Videos

<https://sites.google.com/site/ccmgimbar/ccm1>

<https://sites.google.com/site/ccmgimbar/ccm8>

Katie demonstrating social studies:

<http://www.youtube.com/watch?v=bMUbfR8aUMw&feature=youtu.be>

Katie demonstrating language arts:

<http://www.youtube.com/watch?v=QaP-DtZ088o&feature=youtu.be>

Katie answer's questions from college students at Penn State:

<http://www.youtube.com/watch?v=7dwh5md5Z9U&feature=endscreen&NR=1>

Flipped High School—Clintondale High School, Michigan—What the students think:

<http://www.youtube.com/watch?v=5BTRk7yMmdA>

Another “what students think” video....

<http://www.youtube.com/watch?v=i2R62T5BSTg>

Channel of math videos

http://www.youtube.com/user/dmsflippedmath?feature=results_main

Jonathan Bergmann and Aaron Sams

<http://www.mindbites.com/series/312-general-chemistry-unit-1-matter-measurement>

Several flipped examples (various math teachers...various methods)

<http://www.youtube.com/watch?v=1TIEwAztv9w&feature=related>