Teaching a Flipped Classroom
• Introduction to the flipped classroom
  Ali Froehlich, CTLE

• The flipping experience
  Doug Berman, Physics

• Designing the course website
  Carlos Asarco, TLT

• Questions & demonstrations
Imagine what you want to do with your students that you don’t do today
Typical Lesson

lecture

takes place in the
Classroom

practice “homework”

takes place at
Home
Typical Lesson

- Lecture
- Practice “homework”

Classroom

Home
lecture
Flipped Lesson

practice “homework”

lecture

Classroom

Home
Flipped Lesson VS Hybrid Lesson
Flipped Lesson

Instruction moved online (outside of the class)

Practice moved into the classroom
Hybrid Lesson
Hybrid Lesson

Proportion of classroom activities occur online

Equivalent reduction in classroom time
Reduction in classroom time in proportion to online activity

Hybrid Lesson

Flipped Lesson

Reversal of lecture/homework paradigm
Flipped Lesson
Flipped Lesson

1. Video lectures

2. Get students to watch video lectures before class

3. Plan in-class activities
1. Video Lectures

Hypotheses
1. Video Lectures
Your students pay for Top Hat just like they would a textbook

Are you a student?  Start here

Start making every lecture count today

Starter
Professors Always Free
Students Free
  • 30 Student Limit
  • 1 Course Limit
  • Email Support
  • Phone Support
  • Personalized Training
  • LMS Integration*

Professional
Professors Always Free
Students pay $20
  • Unlimited Students
  • Unlimited Course
  • Email Support
  • Phone Support
  • Personalized Training
  • LMS Integration*
Tablet or Smartpen
Use Gauss–Jordan elimination or Gaussian elimination to solve the system.

\[
\begin{align*}
x + y - z &= 9 \\
-2 &= -2
\end{align*}
\]
Why I Flipped My Classroom
Recorded class session
2. Get students to watch video lectures *before* class
3. Plan in-class activities
3. Plan in-class activities
3. Plan in-class activities
3. Plan in-class activities

- One-on-one time with students
- Work on problems together
- Discussions
- Higher-level thinking
- Real-world applications
- Problems identified & immediately addressed
- More questions