

## FLIPPED LEARNING/INVERTED LEARNING/REVERSE INSTRUCTION

Flipped or Inverted Learning is a student-centered style of teaching that allows time for collaborative inquiry and problem solving in the classroom. Basically, the students (and teachers) are flipping (or reversing or inverting) their traditional approach to learning. Using technology, they learn the basics at home. (listen to a lecture, watch a Kahn Academy video) and then use the class time for collaborative problem solving, project-based work, face-to-face small group work with the teacher, etc.

Two flipped learning pioneers, Aaron Sams and Jonathan Bergmann, describe Flipped learning as helping teachers “move away from direct instruction as their primary teaching tool toward a more student-centered approach.” They add that “Flipped learning is not about how to use videos in your lessons. It’s about how to best use your in-class time with students.”

“Instead of coming to class to watch the teacher lecture and then going home to practice what they learned—thus the word *homework*—students watch the lecture at home and then come to class to practice what they've learned—that is, they're now doing homework in class. Freed from delivering whole-class instruction during that hour or so, the teacher can deliver targeted instruction to students one-on-one or in small groups, help those who struggle, and challenge those who have mastered the content.

Not all classrooms lend themselves to flipping. Courses that are more Socratic or inquiry-based, or those that don't have reams of factual content for students to learn, aren't particularly suited to flipping. On the other hand, courses that are more didactic, that consist of large quantities of content on the low end of Bloom's taxonomy—in the categories of *remembering* or *understanding*—will likely undergo a greater transformation in the flipped classroom model.”

Prepared Resources for Flipped Learning: Kahn Academy, Hippocampus, TeacherTube, iTunes University, Patrick JMT (Just Math Tutorials), PhET, TED-ed Lessons, Brightstorm, Learning Videos and Flex Books

Creating your own Flipped Learning Resources: Camstudio, Jing, Screencast-o-matic, iSpring, SnapKast, Showme Educreations

Wiki Source:

<http://shawlervision.wikispaces.com/Inverted+or+Flipped+Learning+Resources>

**Flipped Learning Network:** A Professional Learning community for teachers using screencasting in education. Includes forums, groups, videos, frequent postings, etc.  
<http://www.flippedclassroom.org>

(Video/Audio) Inverted Learning: “Inverted Learning Becomes a Trend” a lively 25-minute discussion about Inverted Classrooms//Flipped Classrooms - Hosted by Caroline Modarressy Tehrani. Guests include: Leonie Haimson, Jon Bergmann, Brian Bennett, and Josh Stumpenhorst; *Huffpost Live* (originally aired February 4, 2013)

<http://live.huffingtonpost.com/r/segment/inverted-learning/51071b6278c90a2013000132>

“16 Flipped Classrooms in Action Right Now,” Katie Lepi, Edudemic, November 24, 2012 <http://www.edudemic.com/16-examples-of-flipped-classrooms/>

**Videos” Jon Bergmann and Aaron Sams** – (authors of *Flip Your Classroom*)

<https://www.youtube.com/user/Learning4Mastery>

Beyond the Flipped Classroom: Flipped Mastery

Explain Everything & Google Drive Part 1: Sharing a Google folder

Explain Everything & Google Drive Part 2: Uploading Files to Explain...

Explain Everything & Google Drive Part 3: Make Your First Flipped ...

Explain Everything & Google Drive Part 4: Advanced Features

Explain Everything & Google Drive Part 5: Picture in Picture

Flipped Learning in the U.K.

Jon Bergmann Talks About Flipped Learning

Flipped-Mastery Course

Tech & Learning Top 10 Influencers Response by Jon Bergmann

The Flipped Glass at UT Brownsville

Flip Your Conference

Flipping the Assessment with a Document Camera

The Flipped Classroom Goes to Sweden

AP Chemistry Electrochemistry Review

AP Chemistry: Colligative Properties Review (plus other AP Chem videos)

Let’s Not Forget: Teaching is an Art – The Intersection between Relati...

The Flipped Classroom at the 2013 Learning Technologies MENA Conference in Dubai.

**Video: Ramsey Musallam: Flipteaching – Part 1**

<https://www.youtube.com/watch?v=rub1VNq2NvM>

also: Part 2, Part 3, Part 4

At the YouTube Teacher’s Studio, Ramsey Musallam discusses Flipteaching and how using tablets and screencasts make class time more meaningful.

ALSO, for a very, very long list of articles and blogs about Flipped Learning, see

<http://www.jonbergmann.com/newsroom/articles-blogs-about-flipped-learning/>

**Blog The Electric Educator: 10 Tools to Help you Flip Your Classroom**

<http://electriceducator.blogspot.com/2011/04/10-tools-to-help-you-flip-your.html>

**30 Flipped Classroom Tools from EdShelf (Teach Thought)**

<http://www.teachthought.com/apps-2/30-flipped-classroom-tools-from-edshelf/>

**21 Things 4 the 21<sup>st</sup> Century Educator: Flipping Your Classroom**

<http://www.21things4teachers.net/21--flipping-the-classroom.html>