



FLIPPING THE CLASSROOM

BY KRISTEN HESS & REBECCA NARRON

TRADITIONAL VS. FLIPPED
PEDAGOGICAL APPROACH
WEIGHING THE BENEFITS
BEST PRACTICES

TRADITIONAL VS. FLIPPED

Flipped institute.org:

<http://www.youtube.com/watch?v=iQWvc6qhTds>

<http://www.flippingphysics.com>:

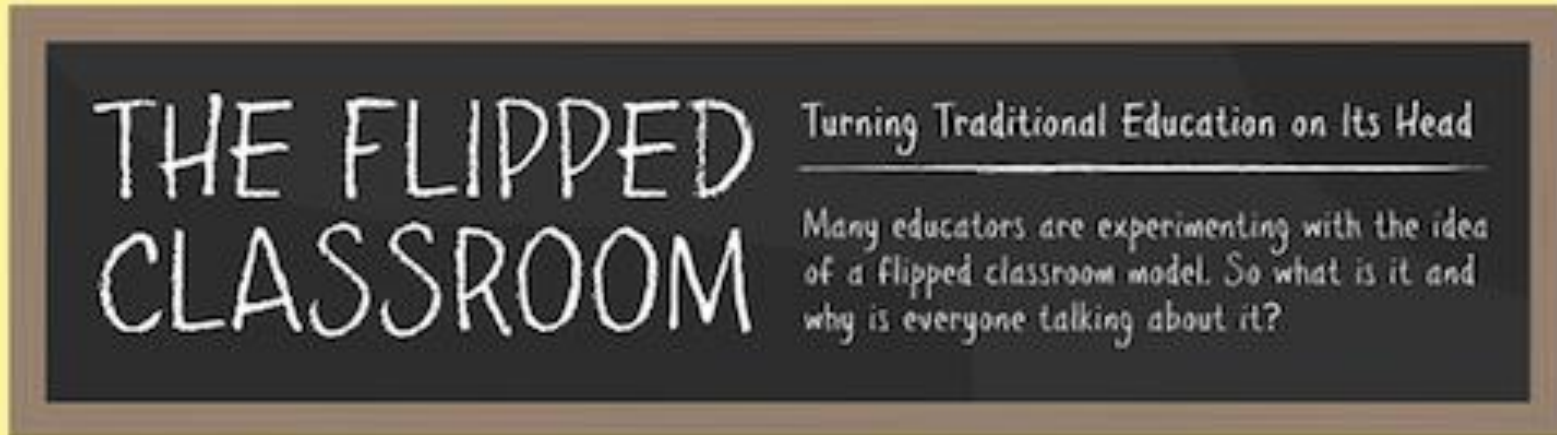
<http://www.youtube.com/watch?v=yzMFdDT6FSA>

MADDrawproductions:

<http://www.youtube.com/watch?v=ojiebVw8O0g>

Simply speaking videos:

http://www.youtube.com/watch?v=26pxh_gMppE

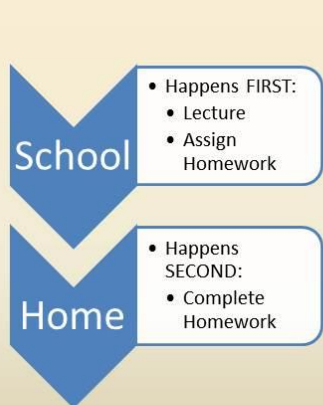


WHAT IS THE FLIPPED CLASSROOM?

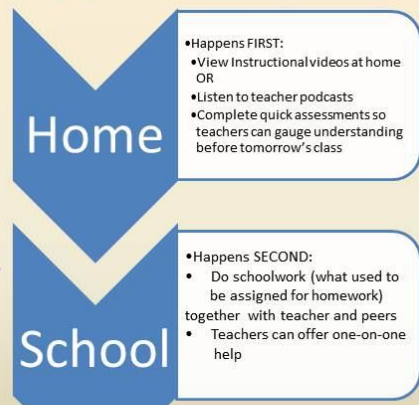
The flipped classroom inverts traditional teaching methods, delivering instruction online outside of class and moving "homework" into the classroom.

Flipped Classroom Made Easy

Traditional Classroom



Flipped Classroom



THE INVERSION



Definition of Flipped Learning

Flipped Learning is a pedagogical approach in which direct instruction moves from the group learning space to the individual learning space, and the resulting group space is transformed into a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in the subject matter.

PIONEERS AARON SAMS AND JONATHAN BERGMANN
STARTED EMPLOYING FLIPPED LEARNING IN 2007.

<LEFT> AARON SAMS:

<http://www.youtube.com/watch?v=2H4RkudFzlc&feature=channel&list=UL>

<RIGHT> JONATHAN BERGMANN:

<http://www.youtube.com/watch?v=nEfojG9ckYA&list=UL2H4RkudFzlc&index=208>



flipped
learning
network

PEDAGOGICAL APPROACH INVOLVED WITH FLIPPING THE CLASSROOM

<http://flippedlearning.org>

4 Pillars Of Flipped Learning

F Flexible Environment

Flipped Learning allows for a variety of learning modes; educators often physically rearrange their learning spaces to accommodate a lesson or unit, to support either group work or independent study. They create flexible spaces in which students choose when and where they learn. Furthermore, educators who flip their classes are flexible in their expectations of student timelines for learning and in their assessments of student learning.

I Intentional Content

Flipped Learning Educators continually think about how they can use the Flipped Learning model to help students develop conceptual understanding, as well as procedural fluency. They determine what they need to teach and what materials students should explore on their own. Educators use Intentional Content to maximize classroom time in order to adopt methods of student-centered, active learning strategies, depending on grade level and subject matter.

L Learning Culture

In the traditional teacher-centered model, the teacher is the primary source of information. By contrast, the Flipped Learning model deliberately shifts instruction to a learner-centered approach, where in-class time is dedicated to exploring topics in greater depth and creating rich learning opportunities. As a result, students are actively involved in knowledge construction as they participate in and evaluate their learning in a manner that is personally meaningful.

P Professional Educator

The role of a Professional Educator is even more important, and often more demanding, in a Flipped Classroom than in a traditional one. During class time, they continually observe their students, providing them with feedback relevant in the moment, and assessing their work. Professional Educators are reflective in their practice, connect with each other to improve their instruction, accept constructive criticism, and tolerate controlled chaos in their classrooms. While Professional Educators take on less visibly prominent roles in a flipped classroom, they remain the essential ingredient that enables Flipped Learning to occur.

TeachThought

Learner-Generated

Educator-Suggested

Now What

Experience

Creative,
Personalized
Projects
Presentations

Games,
Simulations
Interactives

Experiments



Community
Projects

Arts
Activities

Demonstration & Application

Experiential Engagement

Flipped Classroom The Full Picture

Meaning Making

Concept Exploration

Blogging

Video
Lectures



Reflective
Videos

Audio
Lectures



Audio-Visual
Reflections

Content-Rich
Websites

So What

What

Tests

Online
Chats

Learner-Generated

Educator-Suggested



JACKIE GERSTEIN, Ed.D:

<http://www.youtube.com/watch?v=cXcCBuU3ytU>

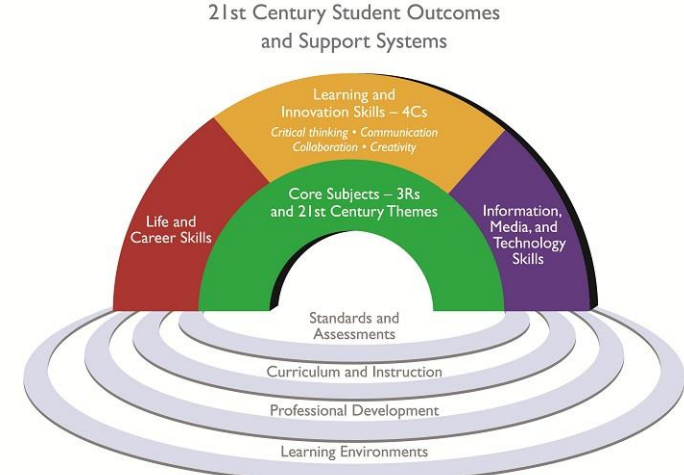
<http://usergeneratededucation.wordpress.com/2011/06/13/the-flipped-classroom-model-a-full-picture>

Aaron Sams Speaks to HOW Flipping the Classroom Meets our current education goals:

http://www.youtube.com/watch?v=4a7NbUIr_iQ

- ☑ Creativity and Innovation
- ☑ Critical Thinking, Problem Solving, Decision Making
- ☑ Learning to Learn, Metacognition Ways of Working
- ☑ Communication
- ☑ Collaboration (Teamwork)
- ☑ Tools for Working
- ☑ Information Literacy
- ☑ ICT Literacy
- ☑ Living in the World
- ☑ Citizenship - Local and Global
- ☑ Life and Career
- ☑ Personal / Social Responsibility

21st Century Skills



Partnership for 21st Century Skills: Framework for 21st Century Learning

The 21st Century Classroom

21st Century Skills are a combination of cognitive processes and the technologies that enable individuals to leverage these processes for the greatest impact. The 21st Century classroom is one that is student-centered, project based and focused on creating life-long learners.

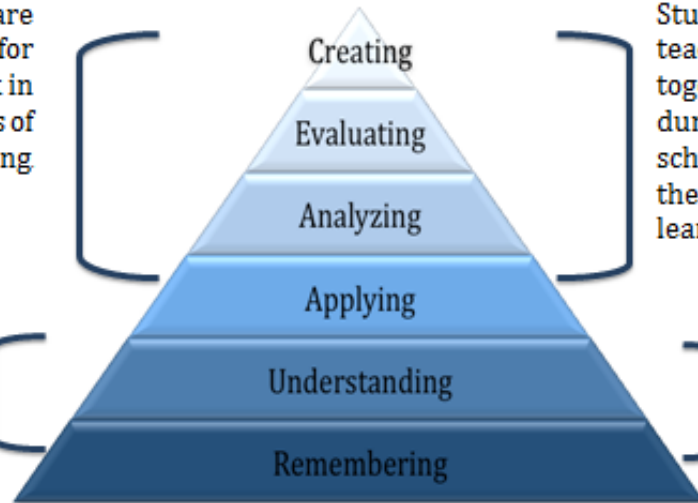
Research & Information Fluency	Problem Solving & Critical Thinking	Collaboration & Communication	Creativity & Innovation
<p>Teacher:</p> <ul style="list-style-type: none"> provides opportunities for students to develop and demonstrate essential skills. <p>Students:</p> <ul style="list-style-type: none"> select appropriate digital tools to assemble, evaluate, and utilize information. apply varied research skills to find and evaluate resources. use information and resources to accomplish real-world tasks. 	<p>Teacher:</p> <ul style="list-style-type: none"> provides opportunities for students to develop and demonstrate essential skills. <p>Students:</p> <ul style="list-style-type: none"> use multiple resources to plan, design, and execute real-world problems. use technology to collaborate and solve authentic problems. develop and answer open-ended questions using higher order thinking skills 	<p>Teacher:</p> <ul style="list-style-type: none"> creates structures, provides opportunities, and assesses student performances <p>Students:</p> <ul style="list-style-type: none"> Initiate communication in real and non-real time. communicate and collaborate with learners of diverse cultural backgrounds. form collaborative teams to solve real-world problems and create original works. 	<p>Teacher:</p> <ul style="list-style-type: none"> provides opportunities for students to develop and demonstrate essential skills. <p>Students:</p> <ul style="list-style-type: none"> apply critical thinking, research methods, and communication tools to create original work. collaborate effectively with an audience beyond the classroom to create original work.

Traditional Model

Flipped Model

Students are responsible for homework in these levels of understanding

Teachers introduce new material to students.



Students and teachers work together during the school day on these levels of learning.

New material is introduced to students outside of class as their homework.

Blooms Taxonomy

WEIGHING THE BENEFITS

<http://www.teachthought.com/trends/10-pros-cons-flipped-classroom>



Pros	Cons
Students no longer struggle with challenging concepts alone outside of class time.	Making sure every student has a computer and Internet access.
Students can skip parts of the lesson they already understand and re-watch new or challenging ideas.	Students cannot ask questions for clarification during a recorded lesson.
Applied learning in the classroom.	Technology issues.
Differentiated instruction.	Designing and grading frequent quizzes.
Students are given ownership and responsibility for their own learning.	Students have trouble "buying in" to instruction, especially when it is not created by the instructor.
Students come to class prepped and ready to learn. No down time.	Determining how to handle students who do not complete the homework video.
Videos include links for deeper thinking and further learning.	Creating or finding quality videos for each lesson.
Teacher can spend class-time working one-on-one or in small groups with students.	

Benefits of a Flipped Classroom

Students

- Students learn at varying speeds.
- Students are provided opportunities for review.
- Lessons front-load students for classroom activities.
- Materials are ready and prepared for students who are absent or sick.
- Parents can view lessons and better assist students.
- Students do not struggle with completing homework because they “forgot” how.
- Students take ownership of their learning.
- Students are actively working with their peers.

Teachers

- Teachers focus on being the “Guide on the Side” not the “Sage on the Stage”
- Teachers spend more time supporting students with practice.
- Teachers are involved with student learning rather than lecture.
- Teachers spend less time on classroom management of student behaviors.
- Teachers are able to provide one on one and small group assistance.
- Teachers are not spending extra hours tutoring and re-explaining to students who didn’t understand the class lesson.
- Teachers collaborate with peers in creating materials.
- Teachers connect with students.



BEST PRACTICES

Five Best Practices: <http://www.edutopia.org/blog/flipped-classroom-best-practices-andrew-miller>

The Flipped Classroom is NOT:

- A synonym for online videos. When most people hear about the flipped class all they think about are the videos. It is the the interaction and the meaningful learning activities that occur during the face-to-face time that is most important.
- About replacing teachers with videos.
- An online course.
- Students working without structure.
- Students spending the entire class staring at a computer screen.
- Students working in isolation.

The Flipped Classroom IS:

- A means to INCREASE interaction and personalized **contact time** between students and teachers.
- An environment where students take **responsibility for their own learning**.
- A classroom where the teacher is not the "sage on the stage", but the "**guide** on the side".
- A **blending** of direct instruction with constructivist learning.
- A classroom where students who are **absent** due to illness or extra-curricular activities such as athletics or field-trips, don't get left behind.
- A class where content is permanently **archived** for review or remediation.
- A class where all students are **engaged** in their learning.
- A place where all students can get a **personalized** education.

Remember the
Four Pillars!

<http://www.thedailyriff.com/articles/the-flipped-class-conversation-689.php>

Video Philosophy by Kristen Hess

- My biggest piece of advice is to not worry about making or finding the perfect video because, well, it doesn't exist.
- If you use outsourced videos, please make sure you have watched the entire video and personally endorse it's content as valuable and meaningful to your class.
- When you make your own videos, keep them under 10 minutes. Use humor at times. . If you make a mistake, just fix it, as you would in a live class.
- Most importantly as you create your own video remember to focus on the fact that this is you teaching! BE YOURSELF! Your recorded video is still your instruction....your delivery...your personality. Same value! Same importance!

Some personal samples

Laptop recording, using Windows 8 Movie Maker and posted to Vimeo: <https://vimeo.com/84923244>

Document camera recording, using Luna document camera (<http://www.learningresources.com/product/luna--8482--interactive+projection+camera.do>) and posted to TeacherTube: <http://www.teachertube.com/video/inverse-functions-hw1-327950>

iPad recording using free Educreations App (iPad only, www.educreations.com) contributed by Jeni Kemp, LDHS: <http://www.educreations.com/lesson/view/geometry-lesson-10-8-equations-of-circles-1314/19264674/?ref=link>

Screen cast using free Screencast-o-matic (<http://screencast-o-matic.com>) showing how I set up my Bb for Flipping: <http://screencast-o-matic.com/watch/c2jqfJnMGN>

My most commonly used for outsourced videos

<http://www.virtualnerd.com>

<http://mathvids.com>

<http://www.statisticslectures.com>

ADDITIONAL RESOURCES

- <http://flippedlearning.org>
- <http://flippedinstitute.org>
- <http://thejournal.com/Articles/2012/06/20/Flipped-learning-founders-q-and-a.aspx?Page=1&p=1>
- <http://jonbergmann.com>
- <http://youwillflip.pbworks.com>
- <https://docs.google.com/document/d/1sPk5RX4Weto13QNPtBuWy4TGpqkvqCSB9J3GQ59I7CY/edit?usp=sharing>
- <http://www.screencast-o-matic.com>
- <http://educreations.com>



Good Luck as you embark on this new journey!