Flipped Learning: 
Meeting the Demands of 21st Century Students

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It’s time for change!
½ of students text in-class

92% access social media

80% watch videos on phones

29% own tablets

What’s working for 21st Century Learners?

- Accelerated learning
- Blended learning
- Differentiated learning
- Flipped classrooms
- Targeting deficiencies as soon as possible
- Multiple modes of assessment
- Real Life connections to learning

View the research at: http://ecs.org/
**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.
### The Flipped Classroom Model

<table>
<thead>
<tr>
<th>TRADITIONAL</th>
<th>FLIPPED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>Lecture</td>
</tr>
<tr>
<td></td>
<td>Homework activities</td>
</tr>
<tr>
<td></td>
<td>Classroom activities</td>
</tr>
</tbody>
</table>

1. Gain exposure prior to class through (online) materials
2. Incentive to prepare for class
3. Assesses students’ understandings
4. Uses in-class, higher cognitive level activities
5. Students are in control of their learning processes

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Of 200 teachers who flipped their classrooms...

- 85% saw improved grades
- 30% corresponded with students outside of class using technology
- 25% used class time to delve deeper into subject matters
- 20% transformed from lecture to interactive format

http://www.sophia.org/flipped-classroom/flipped-results

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What is adaptive learning software?

- determines how students learn best
- targets students’ learning styles
- determines what content should be reviewed before moving forward
- mastery of concepts through practice and application
- challenges students
- improves students’ skills & memory recall

[http://www.youtube.com/watch?v=zHdUXFlqJjg&sns=em](http://www.youtube.com/watch?v=zHdUXFlqJjg&sns=em) Nerds on the Board for Knewton
Adaptive Learning Software:

*Connect LearnSmart by McGraw Hill*

http://www.youtube.com/watch?v=FIG9Rylwdhl&sns=em

E-book with options to purchase

Available for Multiple Semesters

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Benefits of an Adaptive Learning, Flipped Classroom

- Adapted to Learning Styles
- Differentiated & Personalized learning
- Lectures/videos available 24/7
- Supplemental materials
- Exercises for mastery
- Application of concepts/skills in class
- Practice of concepts/skills
- One-on-one tutoring
- Peer collaboration
- Peer teaching
- Improved attendance
- Improved grades

Better understanding and application of materials = Better Grades!

12 students in IRW Pilot

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Class Schedule

10 minutes (approximate)
Journaling and Sharing

15 minutes (approximate)
Reviews of skills as needed, Q & A

Remainder of Class Time:
In-class activities, instructor & student grading conferences, essay writings, next day homework, peer discussions, peer workshoppings, peer teachings, one-on-one/small group tutoring, reviews of online lectures and materials...
**Sample Lesson Plan**

**Reminder:**
Keep out-of-class instructional videos and skills practices to manageable time frames. Don’t overwhelm students!

<table>
<thead>
<tr>
<th>Video: Why Writers Analyze Literature</th>
<th>4 min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture: Literary Analysis</td>
<td>4 min</td>
</tr>
<tr>
<td>How-to Guide for Lit Analysis</td>
<td>2 min</td>
</tr>
<tr>
<td>Subject-Verb Agreement</td>
<td>10 min</td>
</tr>
<tr>
<td>Subjects and Verbs (Simple Sentences)</td>
<td>10 min</td>
</tr>
</tbody>
</table>

Log-in: Blackboard or [www.mhhm.com](http://www.mhhm.com)

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Educreations

Free, works with multiple devices, similar to whiteboard, easy recording and use

**Writer as Reader: The Many Roles of a Writer**


http://www.educreations.com/lesson/view/using-i-me/11235091/?ref=appemail
The Great Adaptive Learning Experiment

Lost Tuition Recovered: $12,000,000.00

Increase in Pass Rates: 18%

Drop in Student Withdrawals: 47%

2013 Funded by Gates Foundation
Student Testimonials

“It helped me to understand materials better. I got to watch the lectures over and over again. I liked the [virtual] coach who helped me. English is hard for me, so this really helped!”

Elena

“I could do the work anywhere—at my job or home. I like being able to see it on my tablet. The worst part was since I couldn’t beat it [the system] I had to learn the materials!”

Zach
"Flipping the classroom has transformed my class from a lecture-type forum into an interactive learning environment."

"Flipping the classroom enables me to better understand whether students are understanding the material that is presented to them because there is more time to interact with them."
Where can I find *free* resources to flip my classroom?

- Academic Earth
- Creative Commons
- Educreations
- Edmodo
- Discovery Education
- Evernote
- Federal Registry for Educational Excellence
- Flipped Learning Network
- Flocabulary
- Google Education
- iTunes U
- K-12 Tech Tools
- Khan Academy
- LiveBinders
- National Geographic Education
- OER Commons
- Open Source
- PBS Education
- Poll Everywhere
- Share My Lesson
- Shmoop
- Tegrity
- Teachability
- Teaching Channel
- Teacher Tube
- Ted Ed
- Twitter
- United States Department of Education Virtual Field Trips
- Web 2.0 Guru
- YouTube/YouTube Edu

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Where can I learn more? Where can I get support?

Flipped Learning Network at www.flippedlearning.org

Free course: As We May Teach: Educational Technology, From Theory Into Practice by Dr. Ruben Puentedura at Itunes https://itunes.apple.com/us/itunes-u/as-we-may-teach-educational/id380294705?mt=10

Free webinars with professional development CE certificates at EdWeb or http://home.edweb.net/

Contact Beth Hammett at: mbhammett@aol.com or bhammett@com.edu or www.bethhammett.blogspot.com

Fears & Worries/Q & A

1. Instructor as coach/facilitator (not the “Sage on the Stage" but the “Guide on the Side“)

2. Will students come to class if they have everything they need online?

3. Oh no! Another (adaptive learning) software program?

4. Can peers “step-up” to re-teach concepts?

5. Fear of change?

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Bibliography and Resources

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- http://testkitchen.colorado.edu/reports/smartphone/smartphone-survey/
- http://www.ecs.org/
- http://www.sophia.org/flipped-classroom
- http://www.washington.edu/teaching/teaching-resources/flipping-the-classroom/
- http://www.youtube.com/watch?v=zhdUXFiguGi&sns=em  Nerds on the Board for Knewton
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