Flipping the Classroom Using Screencasting Technology

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Topic Outline

I. Background and basic information on the flip
   A. History
   B. Definition
   C. Benefits
   D. FAQs/Troubleshooting

II. How I flip my classroom
    A. How I started
    B. Technologies I utilize
Brief History of the Flip

- Late 90s-higher education
- 2004-Salman Khan begins recording videos
- 2007-Jonathan Bergmann and Aaron Sams
- 2011-Clintonondale HS
What Flipping is...

- A teaching model where student homework is to watch video instruction on a topic, and class time is devoted to teacher assisted practice/application of skills/concepts

- 2 separate components:
  - Video instruction outside of class
  - In class application and activities
What Flipping is NOT...

- Easy
- A “one size fits all” approach
- A replacement for teachers
- A magic cure for all educational woes
- All about the videos—it is what you do in class that matters most!
Benefits of the Flip

- Places responsibility for learning on the students
- Content is archived and students watch it individually
  - Absent students still receive quality instruction; return prepared
  - Students can re-watch videos as needed
  - Students can pause, rewind
Benefits of the Flip

- Removing lecture frees up class time
  - Teacher can assist with skill practice
  - Collaboration and communication is increased
  - Students come to class prepared to interact with and reflect on the topic
  - Allows for higher-level, authentic, varied activities
  - Promotes individualization and differentiation
Student Feedback

“It made me more responsible because it allowed us to study as much as we please and for us to re-watch the videos if we did not understand the concept”

“Usually in class if I am taking notes, sometimes I won’t hear some things Sra. says because I may lose attention for a brief moment. But doing this as homework, I can watch the videos when I feel like it.”

“The best thing is when you are absent you can do the notes at home and still be caught up with the class”

“It allowed me to do notes at home and do more activities and ask questions in class.”

“I like that we do more fun partner work in class and have much less homework.”
Flipping FAQs/Troubleshooting

(See PDF “Gierhart Flipping FAQs”)

- What if students don’t have internet access?
- What if students don’t have a home computer?
- How do you hold students accountable?
- What if student’s have questions about the content?
My Flipping Journey

- Stumbled upon it 3 years ago while researching differentiation
- Clearly articulate why I wanted to flip; how it would help me meet the standards
- Set up a meeting with T.I.S.; came up with flipping plan/timeline
- Got principal and tech director to okay a pilot program
- Sent letter to parents explaining the flip (still send one home each year)
- Had students/parents fill out tech survey
- Create Moodle course
- Learn technology to create/record/post videos (SEVERAL versions)
- Flipped one quarter with one class period
- Collected student and parent feedback
Creating the Presentation

(See PDF “Gierhart Flipping Step Sheet”)

- Presentation software
  - SMART Notebook
  - Keynote with OmiDazzel
- Writing tablet
  - Bamboo tablet
  - Monoprice tablet
Recording the Presentation

(See PDF “Gierhart Flipping Step Sheet”)

- Screencast-o-matic
  - has pause button while recording
  - free to download and use up to 15 minutes
- Quicktime player
- Camtasia
Tips for Recording

- Keep bottom right of slide empty for video box
- Try to keep videos short - under 10 minutes
- Talk how you would naturally teach, be relaxed
- If you mess up just correct and KEEP GOING
- Use video box to increase students’ attention
- Don’t pause for students to write- they will pause you
- End with examples for students and/or short assessment
Posting the Video
(See PDF “Gierhart Flipping Step Sheet”)

* Learning Management Systems
  (Moodle, Blackboard, Canvas, Edmodo, Schoology)

* Google Drive

* YouTube (TeacherTube, SchoolTube)
Moodle

- Assignments and Calendar
- PDFs of all guided notes/handouts
- Video tutorials
- Forums
- Quizzes
- Reports
More Information

(See PDF “Gierhart Flipping FAQs”)

www.knewton.com/flipped-classroom/
   An easy to understand infographic about the flipping the classroom.

www.flipteaching.com
   If you click on “Resources” at the top right it takes you to a page full of articles, videos, research, and sites on the topic.

www.thestateoftech.org/2012/04/episode-14-podcast-flipped-classroom.html
   The podcast is great although the discussion of the flip does not start until about 20 minutes in. Also on this site are several useful links and additional resources.

flippedclassroom.org
   A professional community for teachers working with the flip or those who want to know more about it.

www.thedailyriff.com
   Do a search for “flipping the classroom” in this site and it will generate a lot of good articles.

www.khanacademy.org/
   Ready-made videos for math and science that can be used in the flip.