

Lessons Learned in Flipping Online Classrooms to Apply in Your School COSA 2015

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Introduction

This session will focus on lessons we've learned designing a flipped classroom approach to engage our students. We will highlight approaches that can be used in a wide range of classrooms including yours. It will also examine resources that students can use to demonstrate understanding through solo and group work during live classes.

[Starter Video](#)

To peek your interest this video illustrates the types of things you'll see and why we flip and so should you!

Presentation

[Link to Prezi](#)

[InfoGraphic](#)

E-Learning Strand <http://elearning-cosa.strikingly.com/>

Supplemental Resources

Flipped Classroom Information:

- [Flipped Learning Network](#)
- Video explanation by [Jon Berman](#), one of the originators of flipping
- Another overview of flipping, by [Aaron Sams](#) one of the originators of flipping
- Overview of [Flipped Learning pedagogy](#) and lesson planning by User Generated Education
- [New York Times article on Flipping:](#)
- New York Times editorial on [Flipped Mastery Learning](#)
- [Flipped Learning: A Response to Five Common Criticisms:](#) good reminders about what not to do when flipping
- [The Flipped Classroom: Pro and Con](#) by Mary Beth Hertz

Online video resources:

Examples of ORVA Starter Videos:

Art- 7 min video lesson on Symmetry in Art

Science- 1 ½ min video starter on Chemical Formulas and Physical Science

Open Source Starter Video Resources:

You tube: www.youtube.com

- **Crash Course.** Excellent short videos for a variety of subjects
- **EconMovies by ACDC Leadership.** Economic concepts explained with movies!
- **Tyler Dewitt.** Chemistry videos
- **Veritasium channel** - excellent science videos
- There is a lot out there!

Teacher Tube: Videos on all subjects, submitted by teachers: www.teachertube.com

Vimeo: Upload, share, and view videos: <https://vimeo.com/>

Slideshare: free PowerPoint videos on any topic: <http://www.slideshare.net/>

TedEd: Use lessons created by TedEd community members or create your own:
<http://ed.ted.com/>

Phet Simulations: Simulations for all areas of science created by the University of Colorado Boulder (especially useful for physics and chemistry):
<http://phet.colorado.edu/>

Khan Academy: math, sciences, arts, and humanities
<https://www.khanacademy.org/>

Knowmia – over 25,000 short video lessons: <http://www.knowmia.com/>

Dan Meyer's 3 Act Math Tasks: math lessons with videos and lesson plans:
<http://tinyurl.com/dmeyer-3act>

Estimation 180: middle school math lessons: <http://estimation180.com>

Elementary 3 Act Math Tasks: math lessons with videos: <http://tinyurl.com/elementary-3act>

Robert Kaplinsky's K-12 Math Lessons: math lessons with video:
<http://robertkaplinsky.com/lessons/>

Collegiate Lectures!

LearnersTV: <http://www.learnerstv.com/videos.php>

Academic Earth: <http://academicearth.org/>

Open Culture: <http://www.openculture.com/freeonlinecourses>

Coursera <https://www.coursera.org/>

Sites to make the most of your videos

Educanon: an online learning environment to build and share interactive video lessons. Use your favorite videos to create interactive lessons and online quizzes:

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

EDPuzzle: crop, add voice over, and embed questions with this site.

<http://edpuzzle.com/>

Safeshare: This site removes advertising and community comments from your YouTube video so that they are “safe” to share anywhere: <http://safeshare.tv/>

TubeChop: allows you to chop youtube videos and eliminate advertisements for student safety.: <http://www.tubechop.com>

Tools for Making Your Own Videos/Screencasts:

Jing – free, for screencasts that are only a few minutes long. Also good for screen captures.

Camtasia – like Jing, but more powerful, and not free.

ScreenFlow (for Mac)

GoAnimate – make animated videos yourself

Flipped Class Video Repository – a collection of videos uploaded by teachers – these could be good examples to inspire and help you make your own.

Screencast-o-matic: Create short videos (15 min max).

Screencastify- free google product that allows for webcam embedding, screen captures, Powerpoints, etc. (10 min max).

Resources for online collaboration:

Google Drive – create, share, and collaborate on documents online. _

Google Apps for Education – free Web-based email, calendar, & documents for collaborative study.

YuJa is a free site where you can post videos/questions and students can comment. You can also hold a hangout regardless of what email domain your students use. _

Thinkbinder - online private study session (like Facebook) but only invite specific people. Can post items and notes and follow thoughts.

Examtime – students create, share, and discover study resources. They can build and share mind maps, flashcards, quizzes, and notes for free.

Dropmark – virtual collaboration site (upload files, collaborate, present online – PowerPoint not needed).

Meetings.io - set up free video conferencing for up to five people. Watch videos together: _

Slatebox, MindMup, Realtime Board – three different collaborative mind-mapping/visual learning/note taking sites – like a chalkboard in the cloud, only better.

Watch2Gether – watch and comment on videos.

Other Tools and Resources:

Socratic.org – ask just about any science question and get an amazing answer:

<https://socratic.org/>

Quizlet – students and teachers can create online study materials here, or use materials created by others: <http://quizlet.com/>

Thinglink – teachers or students can create interactive images:

<https://www.thinglink.com/learn>

Symbaloo – access your bookmarks from anywhere, because they are stored in the cloud. Teachers can create “webmixes,” list of bookmarked resources, and share them with students: <https://www.symbaloo.com/home/mix/13eOcK1fiV>

Poll Everywhere – kids can answer in-class polls instantly using their cell phones, results immediately display onscreen: <http://www.polleverywhere.com>

Infographic Makers:

<http://piktochart.com/>

<https://venngage.com/>

Search Engines:

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

<http://scholar.google.com/>

Stock photos that don't suck:

<https://medium.com/@dustin/stock-photos-that-dont-suck-62ae4bcbe01b>

My favorites :

[Unsplash](#)

[Little Visuals](#)

[Death to stock photos](#)

[New Old Stock](#)

Slide Ideas!

<http://www.slideshare.net/damonnofar/8-tips-for-slideshare>

<http://www.slideshare.net/itseugene/7-tips-to-beautiful-powerpoint-by-itseugene?related=1>

<http://www.slideshare.net/itseugene/quick-dirty-tips-for-better-powerpoint-presentations-faster>

Fonts:

They are important!

Please never use Comic Sans

[Understanding fonts](#)

Add some cool fonts to your system:

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

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

Blogs and Inspiration:

k12's parent blog

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

<http://www.dangerouslyirrelevant.org/>

<http://www.iste.org/>

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