

# 21 st Century Educational Technology and Learning

JULY 18, 2012 · 1:26 PM

## Flipping The Classroom... A Goldmine of Research and Resources To Keep You On Your Feet

5 Votes



*Greetings from Boston and BLC12 (Alan November's Building Learning Communities Conference). If you wish to follow the happenings at BLC12 check out the hashtag #BLC12 on Twitter. Welcome to another post rich in resources on the Flipped Classroom. If you have come here looking for links that will guide you to videos and multimedia to use in a Flipped Classroom you will find that in the second half of this post. Perhaps you have tried a little Flip of your own and want to learn more. If you are beginning to investigate what a Flipped Classroom is, with the thought of possibly trying some kind of Flip yourself... then this is also the right place. I have researched and tried to find you the very best resources to get educators in all positions thinking about what a Flipped Classroom" really is"? I know that if you take a look at the resources provided you will walk away with a better understanding, and a well thought out implementation. It is the understanding and implementation that hold the key to success. Before taking this narrative journey please take a moment to subscribe to this blog by RSS or email. I appreciate you taking that time and remember you can follow me on Twitter*

at [mjpgormans](#). Last, please give this article a retweet and pass it on to other educators. It might just give them a reason to FLIP... in a well-planned manner! As always... thanks and have a great week! – Mike Gorman ([21centuryedtech.wordpress.com](#))

*Quick Note – I have been getting a lot of request asking if I will make a visit to your school, organization, or conference. Please be aware that I am available to assist you in providing professional development and presentations. I have had the opportunity to network in person across the country and invite your inquiry at [mjpgormans@gmail.com](mailto:mjpgormans@gmail.com).*

## Introduction To The Flip

Many educators are beginning to become aware of the growing teaching method referred to as “Flipping The Classroom”. Simply put... the teacher provides videos for homework, while traditional home work is done in class under teacher supervision. Unfortunately this might be just too simplistic of a definition. Possible this is why using the words “simply put” may not be the best practice in explaining anything.

You see, at first this definition does make a lot of sense, and like so many “best practices” I see great value in the idea. In fact, how many parents have sat at the study table with their child only wishing that the teacher was available to explain a math problem? How many students have had to wait until the next day to ask that important question before finishing homework? Before hauling out the video camera and writing your lesson scripts or perhaps linking to the entire Khan Academy video selection... I have several points of reflection.

Yes, I am a proponent of incorporating various multimedia and online learning in a blended environment. In fact... there is no doubt that this is the future of education. I say blended because I firmly believe that it is a real teacher that can really make a difference. Blended learning also incorporates some on-line instructional activities. Now, before jumping in the air and doing a full flip, educators must spend some time investigating and contemplating what might work best for their individual situation. Please spend a few moments and allow me to not only provide you with some resources... but also as you explore these resources, you may develop some points to ponder. It is my full intention to assist you in coming up with your own definition of the “Flipped Classroom”. As you go through the resources below... click on the links and immerse yourself. I have tried to find resources that really say it in a way that we can all understand. You may just begin to Flip your idea of Flipping!

## Resources To Better Understand Flipping the Classroom

- [Blend My Learning \(The Envision Experiment\)](#) – Oakland, California high school students who had failed algebra were randomly assigned to one of two summer school classes. The “control” classroom received a traditional five-week summer school curriculum for Algebra 1. The “treatment” classroom used Khan Academy for almost all of the period each day, and both classes had the same teacher. Take a look at their findings.
- [The Economist: Teaching Methods – An Alternative Vote... Using Science To Teach Science](#) – This study involves the theory of “deliberate practice” by psychologist [Anders Ericsson](#). This research team introduced a more interactive, discussion-based and assessment-oriented approach to physics class that strongly implies major improvements to science and engineering instruction in general. Read what they learned.
- [Learning About The Khan Academy](#) – You have heard about Khan and have possible even used the tutorials. Before making your own... take a moment to learn from Khan and discover the method of his success. There really is a lot of thought in each of those clips. Jack McShea in his blog [HG2S Training Blog](#) gives an awesome explanation, provides a link to [Khan’s TED Talk](#), and provides other useful Khan Links.
- [The Flipped Classroom \(Shedding Light on The Confusion, Critique, and Hype\)](#) – A wonderful article by [Aaron Sams](#), considered a co-creator of the flipped class model and the co-author of the book on the flipped class. In this article Aaron does a wonderful job of describing that one must be careful in defining the “Flipped Classroom”. He makes it clearly understood that Khan is just one type of Flip. A great article allowing educators to begin contemplating what their idea of a Flipped Classroom is.
- [The Telegraph – Think Tank – Flip – Thinking – The New Buzz Word Sweeping The US](#) – Well know writer Daniel Pink ([A Whole New Mind](#) and [Drive](#)) explains how education may be changing. Daniel tells the story of Karl Fisch ([author of an awesome blog... Fischbowl](#)) who is a 20-year veteran of Arapahoe High School located south of Denver, Colorado. He describes how Karl has found success with the Flip.
- [New York Times – \(Learning In The Dorm Because Class Is On The Web\)](#) – Is this the future? If this turns into a college norm... are K12 schools getting students ready? How might K12 incorporate Flipping (or blended learning) to help students transition to such an environment?
- [Plan B: Flip The Classroom... Every Teacher Should Do This](#) – I include this because the writer, Donald Clark, does an excellent job of pointing out both formative and summative assessment. Before using any Flip concept an educator should investigate their

knowledge and practice involving both formative and summative assessment. How might “Flipping the Classroom” facilitate summative assessment through the incorporation of formative teaching and assessment strategies?

- [The Flipped Classroom InfoGraphic](#) – OK... if you are a person who learns best by pictures, this just might be your ticket. While this gives a great image of what a Flipped Classroom might be... could there be more emphasis on instructional strategies? It mentions ideas and concepts such as “learning through activity” and “educational technology”. Not a whole lot of graphics illustrating these important elements. Perhaps you need to decide what they will be. I feel this is where a Flip done correctly allows for the teacher to create engaging high level activities, incorporate PBL, and leverage technology beyond the video lecture. Before Flipping an educator must seriously consider these aspects
- [USA Today: Flipped...Classrooms Take Advantage Of Technology](#) – USA Today article that points out both advantages and some disadvantages to a Flipped Classroom model. This article provides essential ideas to ponder before making the Flip.
- [The Flipped Classroom](#) – A short but very enlightening article on positive applications involved in “Flipping a Class”. This article produced by the Center for Excellence in Teaching and Learning provides an important point to reflect on at the conclusion of the article. It states, “*While I’m glad many educators seem to be jumping onboard with this model, my concerns are that some teachers may simply transfer their lectures to video and then have their students write papers or fill out worksheets during class. To me, that is bad pedagogy. However, if significant learning opportunities are capitalized on during class time, this could truly change learning and solve the problem, at least temporarily, of engaging students with material outside of the classroom*” Wow... well said! Take a look at the video while you are there.
- [Electronic Educator](#) – Flip Your Classroom Through Reverse Instruction – Follow one teachers path toward Flipping (Reverse Instruction). Once again it is emphasized that class time must be carefully planned with innovative and engaging ideas. It is more than just helping students with what use to be homework! Also it points out that all stakeholders must be informed about the Flip. Make sure you see the videos.
- [The Flipped Classroom Model](#) – The Full Picture – And a full picture it is from a very informative and engaging blog entitled, “[UserGeneratedEducation](#)”. After reading this article any educator will walk away with the idea that the Flipped Classroom is more than just videos followed by paper work. [Jackie Gerstein](#) does a wonderful job of bringing the whole idea of the process together. The graphics do a wonderful job of showing how asynchronous and synchronous connections work together to involve both the individual and the group. Plan on having a little time to spend... which will be well worth it.

### **Higher Level Thinking Skills... Two Way Interaction.... Formative Learning... 21st Century Skills**

The flipped classroom of today should incorporate more than a one way street that only incorporates student consumption. The original Web 1.0 was one way. Delivering videos that allow the student to only be consumers of information will never allow student higher order levels of learning . Today the Web 2.0 allows for multi-directional interaction. Students can be learners, consumers, producers, collaborators, critical thinkers all at the same time. The analog days of the one way street are over. The Web 2.0 allows us all to be producers. Students should be entering Bloom’s higher order action verbs that go beyond remembering and understanding. They should be analyzing, evaluating and creating. A flipped classroom should provide opportunities that are:

- action based
- authentic
- connected and collaborative
- innovative
- high level
- engaging
- experience based
- project based
- inquiry based
- self actualizing

The Flipped Classroom should provide experiences that provide for a formative learning experience. Note that I am not calling it formative assessment. It is the formative learning and on-going assessment in a video game that is powerful in engaging students. In a game, players understand where they stand and where they need to improve. In the flipped classroom, formative learning should be incorporated both on and off line. Formative learning can incorporate video, audio, simulations, games, journals, blogging, peer review and collaboration, and inquiry based activities both in the classroom and on the flip. Last, formative learning should include self-evaluation that can be one of a number of methods including self -checks, reflections, and journals. Most of all, remember that the role of formative learning is to give

quality to the final outcome, support the standards, and support real learning. Last, it should be decided how the 21st century skills will be incorporated, facilitated, and assessed. I present a special challenge to those teachers that are always on the flip, in other words “The Virtual Schools”. It is important that these educators find a way to incorporate Bloom’s higher order action verbs, formative learning, and 21st century facilitation and assessment.

### **Resources To Promote Higher Level Thinking, 21st Century Skills, and Formative Learning in the Flip.**

#### Resources

- [Thinkfinity](#) – Verizon Thinkfinity offers comprehensive teaching and learning resources created by [content partners](#) – the most respected organizations in each academic subject and literacy. The easy-to-navigate K-12 resources are grade-specific and are aligned with [state standards](#).
- [30 Online Multimedia Resources for PBL and Flipped Classrooms](#) – The power of formative learning activities with online technology allows teachers to provide multimedia that can be used individually, in groups, or even at home. The multimedia may be a movie, sound clip, picture, simulation, reading, or game. In PBL, the multimedia may be an entry event, a tutorial, a basis for further discussion and inquiry, or a tool that measures student understanding. It could possibly even be an assignment or activity for students to investigate at home. Best of all, students can even be in control of the speed of delivery and even control their own remediation by repeating sessions. Multimedia can be used to flip the classroom, allowing students to participate and formulate their own inquiry through teacher facilitated posts in content delivery systems such as Edmodo or My Big Campus. Let’s take a look at some of these large mega resource sites.
- [PBS Teachers](#) – PBS Teachers is PBS’ national web destination for high-quality preK-12 educational resources. Here you’ll find classroom materials suitable for a wide range of subjects and grade levels. We provide thousands of lesson plans, teaching activities, on-demand video assets, and interactive games and simulations. These resources are correlated to state and national educational standards and are tied to PBS’ award-winning on-air and online programming like NOVA, Nature, Cyberchase, Between the Lions and more.
- [NeoK12](#) – Kids learn best when they ‘see’ how things work, when, where and why they happen. Watching educational videos is a great way to learn because it allows kids to build a visual picture or model in their mind. The visual dimension not only helps them understand concepts better, but also stimulates curiosity and encourages self-learning. Educational videos are possibly one of the most effective learning tools, and honestly, even most grown-ups will find them enriching and entertaining as well. NeoK12™ also features Web2.0 tools for learning and teaching. Our School Presentation tool, a mashup of Flickr and Wikipedia, allows users to create and share interesting school presentations online. Our Quizzes, Interactive Diagrams and other Educational Games & Puzzles are a fun, interactive way to improve learning. These are also excellent interactive whiteboard resources for the classroom. Other tools allow teachers to create and share video playlists with notes and instructions for their students; find and recommend new videos for NeoK12.
- [Classtools.net](#) – This is a site that you are bound to find useful in your classroom. The tools are incredible and may even include items you have used on paper in the past... but can now bring digitally into the 21st century!
- Intel Thinking Tools – Welcome to a series of articles based on Intel Thinking Tools, an amazing set of free tools from Intel. The three tools I will be highlighting in this and future posts are just a small set of what Intel offers for free: [Free: Visual Ranking Thinking Tool... Powerful Student Collaboration!](#), [Free: Seeing Reason Tool...High Order Thinking, Mapping, And Collaboration!](#), [Free: Showing Evidence Tool... Collaboratively Construct, Evaluate, And Defend!](#)

#### Research

- [Learning with Media](#) – Research article that contrasts the idea of students learning from technology to learning with technology.
- [A Model of Learning Objectives](#) – Among other modifications, Anderson and Krathwohl’s (2001) revision of the original Bloom’s taxonomy (Bloom & Krathwohl, 1956) redefines the cognitive domain as the intersection of the Cognitive Process Dimension and the Knowledge Dimension. This document offers a three-dimensional representation of the revised taxonomy of the cognitive domain. You may find this [document](#) useful as you explore.
- [A Model of Learning Objectives](#) – Among other modifications, Anderson and Krathwohl’s (2001) revision of the original Bloom’s taxonomy (Bloom & Krathwohl, 1956) redefines the cognitive domain as the intersection of the Cognitive Process Dimension and the Knowledge Dimension. This document offers a three-dimensional representation of the revised taxonomy of the cognitive domain. You may find this [document](#) useful as you explore.
- [Ten Sites Supporting Digital Classroom Collaboration In Project Based Learning](#) – This PBL Mania post will explore some of those collaborative Web 2.0 tools that can enhance the PBL experience. Allowing students to network while immersed in PBL is so important. This could include communication and collaboration student to student, student to teacher, and student to expert. Below you will find a small collection of tools that might just help make collaboration even more amazing through the use of the online

environment. Whenever using any online tool make sure students are practicing good digital citizenship and responsibility. Also be sure you are aware of your school's AUP and each site's user policy. Now let's take a look at some of these tools.

#### Home Base For Flipping

- [Edmodo](#) – This website is a secure, social learning platform for teachers, students, schools and districts. The site provides a safe and easy way a class to connect and collaborate, share content and access homework, grades and school notices. A goal of Edmodo is to allow educators to harness the power of social media to customize the classroom for each and every learner.
- [My Big Campus](#) – I like to describe this as a mix of Edmodo, Blackboard, Twitter, and Facebook built for the educational community. It is a wonderful and safe place for students and teachers to conduct communication, collaboration, or an entire class. It has all of the resources needed to host a PBL unit. On amazing feature, it incorporates Lightspeed's filters to monitor and report on student action. Best of all it is free. Learn more about My Big Campus at this past [21centuryedtech](#) Post.
- [Moodle](#) – I would not want to forget free an open source Moodle. It has been a friend of many classrooms for years. It can be installed on school networks and there are various Moodle servers.

#### Global Communities

- [ePals](#) – This link will direct you to the free portion of ePals Global Community. It is the world's largest network of K-12 classrooms, enabling students and teachers to safely connect and collaborate with classrooms in more than 200 countries and territories. Offered at no cost to classrooms, educators can access the community to find collaborative projects, join discussions in the community forums, and search thousands of classroom profiles to engage with others in authentic exchanges – all within in a safe, protected online environment. This free community provides a platform to make PBL a relevant real world experience.
- [iEARN](#) – An amazing community and platform covering 130 Countries, 30 Languages, 40,000 Educators, and 2 Million Youth. iEARN (International Education and Resource Network) is the world's largest non-profit global network that enables teachers and youth to use the Internet and other technologies to collaborate on projects that enhance learning and make a difference in the world. At iEARN you will a unique way to engage students in project based learning that extends beyond the four classroom walls.
- [GlobalShoolNet](#) – A group that includes a mission to support 21st century learning and improve academic performance through content-driven collaboration. You will discover e-learning projects worldwide to develop science, math, literacy and communication skills, foster teamwork, civic responsibility and collaboration, encourage workforce preparedness and create multi-cultural understanding. Take a look at some of the outstanding efforts including a Product [Registry](#) area that allows educators to find projects and potential partners. How about an International [Cyber Fair](#) or check out the [Doors to Diplomacy](#) project.

#### New and Latest

[Ted-ed](#) – TED-Ed's commitment to creating lessons worth sharing is an extension of TED's mission of spreading great ideas. Within the growing TED-Ed video library, you will find carefully curated educational videos, many of which represent collaborations between talented educators and animators nominated through the TED-Ed platform. This platform also allows users to take any useful educational video, not just TED's, and easily create a customized lesson around the video. Users can distribute the lessons, publicly or privately, and track their impact on the world, a class, or an individual student. TED-Ed's videos aim to capture and amplify the voices of the world's greatest educators. To achieve this, we pair extraordinary educators with talented animators to produce a new library of exceptional educational videos. This website, similar to TED.com, is ever-evolving and we depend on you, the TED community, to nominate inspiring teachers that have touched your life or clever animators who have the skills to bring a gifted teacher's lesson to life.

#### In Conclusion

As you can see... the simple definition, "the teacher provides videos for homework while traditional home work is done in class under teacher supervision" does not quite fit the bill. In fact, this alone may turn a Flip into a Flop. Educators must first begin any Flip with a well thought out understanding and follow that with a plan of action. After developing your concept of a Flip classroom you may decide to take a little more time reading, researching and planning. Most importantly remember that students should always be at the center of instruction. The idea of Flipping is another one of those wonderful peripherals we find in the true 21<sup>st</sup> century classroom.

*Thanks for joining me on this wonderful journey of 21<sup>st</sup> century learning. Join me in future weeks as together we continue to explore several more posts devoted to the Flipped Classroom, including strategies to consider before implementing! If you have some great Flip resources please comment and send them my way. I enjoy learning from all of you. Also remember to subscribe to this blog by RSS or email and follow me on twitter at [mjgormans](#). I also appreciate your sharing of this post and any retweets. Along with more Flipping be ready for information on STEM, PBL, Web 2.0, 21<sup>st</sup> Century Learning... Mike Gorman ([21centuryedtech.wordpress.com](#))*



some leads to flip classroom folks in the area who might be interested in putting on a workshop for a conference comprised of about 1200 teacher educators. You can reach me at J White [8@Mac.com](mailto:8@Mac.com). Thanks for your consideration

[Reply](#)

**mjgormans**

September 20, 2012 at 2:01 am



I will look into it. Thanks for the contact! Wish you the best at your conference!

[Reply](#)

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**Jared Stein**

July 25, 2012 at 2:37 pm



Not only is this a great set of resources, the context you provide makes them really useful—and leads us, I think, toward a deeper conversation about the “flipped” strategy than what the surface description suggests.

[Reply](#)

**mjgormans**

September 20, 2012 at 2:00 am



Thanks for the thoughts and reflection!

[Reply](#)

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**Anita Harris**

July 25, 2012 at 9:15 pm



Mike, you always do such a great job with your posts! Here is a link to the Faculty Flip I shared recently from Steve Anderson’s blog: <http://goo.gl/GMnic> Great concept and one that I am also sharing along with some other “flip” ideas. Look forward to some more great posts from you! 😊

[Reply](#)

**mjgormans**

July 25, 2012 at 9:41 pm



Anita,

You are awesome. We have to catch up some time when both of us can get a breath!

Mike

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[Reply](#)

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**JR**

July 27, 2012 at 1:56 am



Hi. I recently completed a doctoral dissertation on the topic. You might find it helpful. <http://theflippedclassroom.org/>

[Reply](#)

**mjgormans**

September 20, 2012 at 1:58 am



Thanks for the resource... looks awesome! – Mike

[Reply](#)

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Pingback: [The Best Posts On The “Flipped Classroom” Idea | Larry Ferlazzo’s Websites of the Day...](#)

**mjgormans**

September 20, 2012 at 1:53 am



Thanks for including a link on your site! – Mike

[Reply](#)

**Barbi Honeycutt, Ph.D.**

August 27, 2012 at 11:13 pm



Great list of resources...thank you for sharing them all in one place! I can't wait to dig into some of these in more detail.

[Reply](#)

**mjgormans**

September 20, 2012 at 1:41 am



Thank you for teh kind words and the sharing! – Mike

[Reply](#)

**mjgormans**

September 20, 2012 at 1:48 am



Thanks for the input and the reflection in your blog! – Mike

[Reply](#)

**mjgormans**

September 20, 2012 at 2:14 am



I enjoyed reading of your experiences in Sweden. I think homework is a challenge all over. I wish you the best as you continue to contribute to your students' learning! – Mike

[Reply](#)

**Dan Stuntz**

October 4, 2012 at 2:11 pm



Mike,

This is great. Thanks for putting together a very thorough list of research and resources. Have you seen anything on the flipped classroom utilized in a language classroom setting? Most of what I have read and gone through is focusing on math and science for the most part, but virtually nothing on second-language acquisition. I would greatly appreciate any insight you have on this.

Thanks for your time!

Daniel Stuntz

Josai International University

[Reply](#)

**mjgormans**

October 23, 2012 at 1:47 pm



I really feel that flipping a language arts classroom can be a combination of flipping instruction and flipping learning. Probably one of the better ways is to post something to view, listen to, and analyze. Encourage high level discussion and interaction. This is just one technique... flipping does not have to be all instruction although there are areas in LA where this would even work.

[Reply](#)

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Pingback: [Flipping through the Flipped Classroom Buzz – Part 1, Preliminary Concerns](#) « [Techniques in Learning & Teaching](#)

**mjgormans**

February 28, 2013 at 2:26 am



Thanks for sharing!

[Reply](#)

**mjgormans**

February 26, 2013 at 4:34 pm



Thanks for sharing! – Mike

[Reply](#)

**Glen IRvin**

July 31, 2013 at 4:22 pm



Thanks so much I appreciate all of your hard work as I'm currently working on a Capstone paper on the flip this is amazing!!

[Reply](#)

**mjgormans**

September 10, 2013 at 1:09 am



I am so glad that it helped you out! Please continue to return! – Mike

[Reply](#)



**Danielle Yemma**

September 21, 2013 at 3:41 am



Great collection of articles and information. Can you offer any suggestions on gaps in research? Beginning my dissertation shortly and looking for an avenue to take it. Probably qualitative as I won't have access to a control group. But what do we still need to know?

[Reply](#)**mjgormans**

September 27, 2013 at 2:00 pm



Thanks for the question. You may want to check this newer blog relating more to post k12 but great information that can apply to all levels.

[http://blogs.edweek.org/edweek/edtechresearcher/2013/09/will\\_flipped\\_classrooms\\_reveal\\_the\\_lack\\_of\\_value\\_of\\_assigned\\_work.html](http://blogs.edweek.org/edweek/edtechresearcher/2013/09/will_flipped_classrooms_reveal_the_lack_of_value_of_assigned_work.html)

Also this page from the Flipoped Learning Network has some good current research. <http://www.flippedlearning.org/research>

Wishing you the best as you continue you journey! Again thanks for reaching out! ... Mike

[Reply](#)**Susan**

March 10, 2014 at 11:15 pm



Thank you for your wonderful page of resources. I am also beginning the dissertation process, but I will be focusing on flipped professional development. There isn't much out there using the flipped model in PD. Can you suggest any resources for me?

**mjgormans**

March 11, 2014 at 2:56 am



Hi Susan... Thanks for the kind words. I agree there is not much scholarly work on the PD Flip. You may find some links in this article from November Learning <http://novemberlearning.com/the-pro-d-flip/> Also... there was an edweek article that might point to something <http://www.edweek.org/dd/articles/2013/06/12/03whatworks.ho6.html> Wishing you the best as you move forward! ... Mike

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Pingback: [Should Lutheran Teachers Flip Their Classrooms? | Issues in Lutheran Education](#)

**mjgormans**

November 11, 2013 at 1:54 pm



Thanks for sharing! ... Mike

[Reply](#)**Gerry Sawrey**

December 1, 2013 at 7:25 pm



Hello. Are you aware of any rubrics that have been developed for evaluating the implementation of the flipped classroom? Thanks a bunch!

[Reply](#)

**mjgormans**

January 3, 2014 at 4:40 am



Great question... I will have to take a look. You may wish to check the Flipped Learning network! – Mike

[Reply](#)

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Pingback: [Flipping the classroom | Random acts of learning](#)

**mjgormans**

September 21, 2015 at 1:30 am



Thanks so much for sharing with others! ... Mike

[Reply](#)

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## 33 responses to “*Flipping The Classroom... A Goldmine of Research and Resources To Keep You On Your Feet*”

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### **Kate Petty**

July 22, 2012 at 11:33 pm



Wow- what a great, comprehensive source- I love that you added Thinkfinity- it is good source for me as well. I've "evernoted" this page for future reference as I attempt a second semester of flipping.

[Reply](#)

### **mjgormans**

September 20, 2012 at 2:13 am



Thanks for the comment and I wish you the best as you try new things in the classroom!

[Reply](#)

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### **JOhn**

July 24, 2012 at 12:10 am



Mr. Gorman,  
my name is John White. I am a professor of teacher education at Austin College interment Texas. I am also responsible for putting together some workshops for a national conference to be held in Atlanta in February, 2013. I would appreciate it if you could give me