

Samantha Slifer
Technology-Learning Initiative
CEP 815

Part I:

A problem that some teachers face is that they don't have enough time to teach all of the content that they want to. Teachers teach students of varying levels and abilities. Some of their students need extra time with a concept or they need to be able to see the teacher teach the concept more than one time. Teachers are trying to solve this problems by flipping the classroom. However, there are some problems that teachers run into. On the teachers end there are many resources, applications and software that teachers can use to flip the classroom, but they don't know HOW to use it.

For my technology-learning initiative I will be trying to solve the problems of teachers not know the proper tools to use to flip the classroom. Many schools have the resources such as ELMO machines that have video recording capabilities, but the computers might not have the software downloaded on it because no one knows how to use it. There is a push for teachers to flip the classroom because it maximizes instruction time and allows for more in class practice, but the teachers don't have the technological knowledge to do this.

The technologies that I would like to use are the ELMO camera. With the ELMO software, teachers are able to record videos using the camera. I would also like to use the screencast program JING, for teachers to record their voice, computer screen and mouse. I would also like to use the iPad applications such as ShowMe and the Knowmia Teach to record to record screencasts and lessons. Teach allows teachers to post their lessons to knowmia.com. In the perfect school each teacher would also have their own iPad and laptop. I would also like to use applications like Join.me when teachers can share their screens. I would also hook the iPad/laptop up to a project screen so I could show the teachers exactly what I was doing so they could follow along. I would make sure to teach the other teachers how to use these tools and then teach them how to use them in order to flip the classroom.

Some background knowledge that the teachers must have in order to be successful in the implementation of flipping the classroom is the content that they are teaching, the state/national standards and the accommodations necessary for their students with IEPs. If the teacher has this knowledge, it will help them to be able to create lessons for their students so that they can learn outside of class. Once the teachers have this knowledge and the knowledge of how these tools work, they will be able to create lessons using these tools. The teacher will need to have the lessons very organized on a website, LMS or on the teach website. The students will also need to be disciplined and actually watch the videos that the teacher creates in order to be successful in class and to have a successful classroom flip.

Part II:

Category	Description	Requisite Knowledge
PK	Knowledge about pedagogy and instructional strategies	Knowledge about teaching pedagogically sound and appropriate lesson plans to teach.
CK	Knowledge about content in teachers' curriculum	Knowledge about the content and lessons that they will be teaching as well as the state standards and/or national standards.
TK	Knowledge about technology and how to use specific technological tools	Knowledge about technology tools that can be used to flip the classroom and how to appropriately use them.
TPK	Knowledge about how to teach with specific technologies	Knowledge about to teach students using screencasts and tutorials. Teachers will need to learn the tools that can be used to help their students such as highlighting tools on the various software and applications to flip the classroom.
TCK	Knowledge about how technology aligns to various curricular content or concepts	Knowledge about how to change their previously successful lessons into lessons that can be done using the technological tools to flip the classroom. As well, they will need to know how to show their students how to view the lessons.
PCK	Knowledge about how to teach specific curricular content or concepts	Knowledge about how to teach specific concepts. Teachers must be able to represent the content in an appropriate way that the students can understand it while viewing it outside the classroom.

TPACK	Synthesized knowledge about how to use technology and instructional strategies to teach specific concepts as well as about how the use of technology changes our understanding of the content and of how to teach the content	Knowledge in the content area, appropriate pedagogical strategies and the technology tools. With incorporating all the components of TPACK, teachers will be able to effectively flip the classroom using technological tools such as JING, ELMO camera, Teach and ShowMe to deliver pedagogically sound lessons to their students.
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