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How to Prevent Your Flip from Flopping: Five Key Mistakes to Avoid When Switching to the Flipped Classroom Model

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Objectives
Contrary to popular perception, successfully adopting the flipped (or inverted) classroom model requires more than just recording videos of lectures for students to watch outside of class. This poster will highlight five key mistakes that teachers sometimes make when adopting the flipped classroom model, and outline effective strategies to avoid them.

Methods
The following sources were analyzed for common factors identified as contributing to either the success or failure of a flipped classroom initiative:

- Flip Your Classroom: Reach Every Student in Every Class Every Day by Jonathan Bergmann and Aaron Sams, the two teachers credited with launching the flipped classroom movement
- The research studies and reviews listed in a bibliography on the Flipped Learning Network's Research, Reports, and Stories webpage
- Three recently published research articles from the medical literature that describe efforts to convert a course to the flipped classroom model. These articles were found by conducting a search in PubMed for the keywords “flipped classroom” OR “inverted classroom”.

These common factors were grouped into categories and the five most frequently repeating problems were identified. Recommended practices to address these problems were synthesized from the literature.

Results
Based on the research, there are five key mistakes that teachers make when adopting the flipped classroom model:

1. Failure to convince students to embrace the flipped classroom model
2. Failure to anticipate the time and costs associated with the flipped classroom model
3. Failure to incorporate effective assessment methods into the course
4. Failure to adopt appropriate technology for the information being taught
5. Failure to adjust the course structure to fit the new model

One of these mistakes alone will not cause a course to fail, but committing more than one makes it increasingly difficult to be successful.

Conclusions
Adopting the flipped classroom model requires careful planning and lots of hard work in order to be successful. By understanding and avoiding the five key mistakes outlined in this poster, teachers can increase their chances of success and create a classroom environment that encourages students to learn.

References

A complete list of the resources used in this project can be found at http://go.uvm.edu/ef9vo

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1. Failure to convince students to embrace the flipped classroom model

**The Problem**
Not all students automatically embrace the flipped classroom model. Specific obstacles include:

- Reluctance to assume more responsibility for their own learning
- Fear of the unknown practices associated with the new format
- Concerns about getting enough attention from the teacher during in-class work

**Possible Solutions**
- Start the first class by explaining what the flipped classroom model is, how it works, why it was adopted, and how it will benefit students
- Create side that demonstrates how to effectively study and learn in the flipped classroom model
- Assess how students are adjusting and be prepared to make adjustments to the structure (e.g. changing the number or nature of projects) if necessary
- Provide extra reinforcement and support during the initial days/weeks of the class and create as many positive experiences as possible

2. Failure to anticipate the time and costs associated with the flipped classroom model

**The Problem**
Many teachers fail to anticipate just how much time it takes to create the learning objects required to convert a class, and frequently forget that there may be a financial cost for resources (e.g. new software/hardware).

**Key things to be aware of:**
- Converting lecture to flipped classroom assignments requires significantly more prep time. One study reported that each lecture took 2 hours of development and 2 hours of filming.
- The time requirement will shrink, but not disappear, in subsequent years because the content will need to be updated
- Teachers may need to purchase equipment (e.g. video cameras, editing software) or pay for long term storage

**Possible Solutions**
- Whenever possible, take advantage of pre-existing materials (e.g. MedEd Portal)
- Co-teach with another teacher in order to divide the workload
- Take advantage of other resources (e.g. student workers, instructional designers, etc.) if they are available
- Search for grant opportunities that may help pay for equipment

3. Failure to incorporate effective assessment methods into the course

**The Problem**
The type and frequency of assessments for a traditional course are frequently inadequate for a flipped classroom model. Specific issues include:

- Students need more formative feedback during class to ensure they are meeting learning objectives and correctly applying the concepts that have been covered
- Traditional summative assessments (e.g. exams and projects), while still necessary, do not provide enough insight into the day-to-day learning that takes place
- Fear of assessment hourwast among students

**Possible Solutions**
- Use multiple formative assessments in each class session (e.g. clicker questions, mini-group exercises), and capture data from in-class work
- Create low-stakes assessments so that students keep up with their work, but do not obsess over their grades
- Incorporate active observation into daily practice in order to identify when students are struggling
- Provide opportunities for for individual, small group, and class feedback with the teacher

4. Failure to adopt appropriate technology for the information being taught

**The Problem**
Some assume that videos are the only technology that can be used in a flipped classroom setting, which can lead to structural problems such as:

- Ignoring other technologies, even simple ones like workbooks, that are more appropriate to the material being studied
- Overloading students with one format, which frequently results in boredom and decreased retention
- Overlooking inherent weaknesses or tensions associated with the video format

**Possible Solutions**
- Use an accepted curriculum design process (e.g. backwards design) to frame the instructional goal, and then select an appropriate technology to achieve them
- Use multiple technologies to present information
- Follow recommended standards for each technology (e.g. recommended video length, format)
- Provide alternative options/formats to learn the material (e.g. students with slow/no internet access should be given the opportunity to view videos at school)

5. Failure to adjust the course structure to fit the new model

**The Problem**
Flipping a class requires more than updating lectures. The overall course structure must also be redesigned to empower students to take responsibility for their own learning. Key design challenges include:

- Creating authentic and scaffolded in-class activities for students to demonstrate what they have learned outside of class
- Compensating for the fact that students learn at an asynchronous pace
- Creating more content for in-class work, not less
- Preparing for the fact that a class may proceed in a non-linear fashion

**Possible Solutions**
- Provide multiple opportunities for students to demonstrate understanding (e.g. group projects, experiments, simulations)
- Develop a strategy ahead of time to ensure that students receive necessary, timely, and appropriate feedback and help during each class meeting
- The teacher should master the course content so that they can easily shift from one topic to the next without having to consult notes, textbooks, etc.
- Consider rearranging the classroom space to encourage more active/collaborative learning