What are the impacts of a flipped classroom?

The flipped classroom model was implemented at uOttawa in first to third year organic chemistry and spectroscopy courses. Research showed that the flipped classroom model was correlated with higher grades and lower withdrawal and failure rates when compared to the traditional lecture model.1

**What is the flipped classroom model?**

- The intended learning outcomes are explained
- Class time is dedicated to interactive learning activities using a classroom response system
- Students can tackle harder questions in a group setting
- Challenging concepts are addressed in class in more depth

**How a flipped classroom works:**

1. **Watch video and/or read textbook**
2. **Online assignment**
3. **Online test before class**
4. **CLASSES: Learning activities**
5. **Extra interactions: tutorials, office hours...**
6. **Achieve learning outcomes**

Watching all these videos takes up too much time! I would rather just be taught everything in class.

It may seem like watching videos takes a lot of time, but it actually makes our learning process more efficient. We get the information before class, and learn to use it in class.

Why change now? I prefer learning in class. I’m paying for this, so why isn’t the professor just telling me what I need to know?

The professor is creating opportunities for us to learn! This model gives us the most time to solve problems and get feedback, and lots of time for asking questions with an expert.

Oh, I see what you mean. But how do they know that it works?

They’ve done the research and it shows that this pedagogical approach has many benefits, like higher grades and lower failure rates.1

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