

Item	Flipping the mathematics classroom
Introduction	A flipped classroom is an instructional strategy and a type of blended learning focused on student engagement and active learning. It moves activities, including those that may have traditionally been considered homework, into the classroom. In a flipped classroom, students watch online lectures, collaborate in online discussions, or carry out research at home while engaging in concepts in the classroom with the guidance of a mentor. Professor Simon Benjamin has successfully applied this technique with students in the Department of Materials, looking for a way to free up lecture time for more interactive and interesting problem-solving discussions
Type of institution involved	Higher Education institute
Title of the methodology used	Flipped classroom for mathematics
Type of educator	HE teacher
Tool/tools used	Video lessons uploaded on youtube + quizzes on a Virtual Learning Environment (moodle)
Main Challenges, Key Success and Enabling Factors	<ul style="list-style-type: none"> - Give students the opportunity to learn at their own pace, getting theoretical input with video lessons they can use at their own convenience rather than “wasting” all the class time taking notes from a blackboard. - Class time becomes more interactive and engaging, leaving behind the previous approach where students passively just receive information
Lessons Learnt and Recommendations	This way, students often arrive at lectures equipped with an improved understanding of the topic under discussion and (hopefully) some probing questions ready to pose to the tutor. Consequently, each lecture takes on a different shape from those in previous years since students’ comments and questions differ. Teaching thus become more exciting and challenging.
Country	UK
Name of the Institution/Education Center	University of Oxford

Source

<https://www.ctl.ox.ac.uk/files/case-study-flipping-mathematics-classroompdf>



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