

## Chapter 87

# Flipping the Academic Writing Classroom

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### ABSTRACT

*Over the past two decades, flipped learning has become a buzz word in education discussions. Flipped learning was first applied to science teaching, where lecture has traditionally been the primary means of delivering new content to students (Bergmann & Sams, 2012). While many teachers have heard the term, it is often not well understood, and its application to English language teaching has not yet been explored in depth. This chapter aims to show how the flipped learning paradigm can be applied to an EFL academic writing class. This will be supported with empirical research involving surveys of students in an EFL scientific writing class, to examine how students interact with the video content, and their perceptions of the flipped learning format. This research differs from most previous research in focusing on how students are interacting with the materials in a flipped classroom context, rather than only focusing on the learning outcomes.*

### INTRODUCTION

Over the past two decades, flipped learning has become somewhat of a buzz word in education discussions. Flipped learning was first applied to science teaching, where lecture has traditionally been the primary means of delivering new content to students (Bergmann & Sams, 2012). While many teachers have heard the term, it is often not well understood, and its application to English language teaching has not yet been explored in depth (Başal, 2012; Zhang & Chen, 2014).

The term flipped classroom was coined by high school chemistry teachers Jonathan Bergmann and Aaron Sams, after recording their chemistry lectures to be watched at home by students who couldn't attend class because of sports (Bergmann & Sams, 2012). The terms flipped learning (Sams & Bergmann, 2013) and inverted classroom (Lage, Platt, & Treglia, 2000) have also been used to label this approach.

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In the traditional classroom, new material is presented to students in class through lectures by the teacher. Students then apply the material covered in the lectures to exercises done outside of class. In the flipped-learning approach, students generally learn new material by watching videos of the lectures at home, and then apply that material to exercises done in class (Tucker, 2012). The “flipping” is essentially that the lecture is done at home, and that the homework is done in class. Although video-recorded lectures are the well-known aspect of this approach, written materials could be used in lieu of videos (Bishop & Verleger, 2013; Talbert, 2012) the most important innovations are in the activities that can be done in the classroom in place of the traditional lectures (Bishop & Verleger, 2013; Sams & Bergmann, 2013). This allows more time for group work and teacher-student interaction in class.

Although flipped learning has been applied to and researched within science education, it has only recently been applied to second language learning (for example) (Mehring, 2014). English language teaching within the Communicative Language Teaching paradigm has long been focused on activities that would be described as “active learning”, and is not as focused on presentation of large amounts of information in lectures as science classes generally are. However, in this chapter, the benefits for both teachers and students that flipped learning can have for an ESL academic writing class will be demonstrated through descriptions of the materials used in the course, and through research into how students actually used and benefitted from those materials.

## **BACKGROUND**

### **Justifying the Flipped Classroom**

The course that will be described in this chapter is an EFL science writing course for first-year Japanese university students. This course is comprised of thirteen 105-minute classes that meet once per week. The goal of the course is to teach students how to write a typical scientific research paper in the IMRaD format (Introduction, Method, Results, and Discussion), including both the content and structure of each section, and the relevant academic language and stylistic points. Students are required to write one research paper of approximately 8-12 pages over the 13 weeks, based on a simple scientific experiment of their own design. Typically, students are not only new to academic writing in English, but also new to the creative and critical thinking processes needed to design original scientific experiments. The experiment is generally very simple, but must involve a phenomenon that is unknown to the students. For example, a student might find an existing research paper that shows that chili seeds have a higher rate of germination when basil plants are nearby, even when they are separated by a black plastic barrier, suggesting that nanomechanical vibrations might be the method of communication between the plants (Gagliano & Renton, 2013). Based on this research, they might design an experiment to test the effect of distance between the plants on the germination rate of the chili seeds. They would then carry out the experiment (typically, at home), and write a paper based on the results. The course is broken down into sections for designing the experiment based on previous research, and then focuses on the writing of each section of the paper: first the Method, then the Introduction, the Results, and finally the Discussion. The final complete paper is the major component of the student’s grade.

A scientific writing class is somewhat different from a typical university-level academic writing class in that there is scientific content, such as experiment design and the design of graphs and tables for

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