



# FLIPPED CLASSROOM LEARNING

**\*Mrs. S.Suganthi,**

M.Sc (N), Professor\*\*Mrs.P.Chitra, M.sc (N), Associate Professor

V.V.Vanniaperumal Nursing College for Women, Virudhunagar

## Abstract

Flipped classroom is otherwise called as in- class activities. It shifts the instruction to a learner centered model. Militsa Nechkina, she is the person first proposed the flipped classroom model in the year of 1984. Video collection, digital slide shows, student discussion are the components of flipped classroom. It provides increased enjoyment, decreased boredom to the students. The pandemic caused a surge in the use of flipped classroom. Chen, F, Lul, A.M; & Martinelli, S.M. (2017) conducted a systematic review on effectiveness of flipped classrooms in medical education with different learning outcomes. The study revealed that the effect of flipped classroom in student learning, with some suggesting benefits while others reporting negligible improvement over traditional teaching methods. Regarding perception of flipped classroom, students were generally satisfied with the approach, particularly the usefulness of the online module. Regarding attitude, positive changes were reported in this study.

**Key words: flipped classroom, learner centered, in – class activities**

## Introduction

A flipped classroom is an instructional strategy and a type of blended learning. It helps to increase student engagement & learning by having pupils complete readings at home & work on live problem solving during class time. It shifts the instruction to a learner centered model. In flipped classroom the teacher's interaction with the students is more personalized and less didactic. The students are actively involved in knowledge acquisition, participate in and evaluating their learning. Currently, the amount of research available is not enough to create rigorous practical guidelines for all teachers to use. Therefore, some teachers may conduct the flipped classroom more effectively than others. In addition, the level of intensity of the course may also play a crucial role in the efficacy of the flipped model. Researchers witness a more defined performance increase in K-12 education as opposed to college or graduate education.

## Definition

Flipped classroom is a “pedagogical approach in which direct instruction moves from the group learning space to the individual learning space, and the resulting group space is transformed into a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in the subject matter.”

## History

Militsa Nechkina, a member of the USSR Academy of Pedagogical Sciences, first proposed the flipped classroom model in 1984. In 1980s and 1990s, teachers in Russia tried this instructional strategy. Woodland Park

High School chemistry teachers Jonathan Bergmann and Aaron Sams began practicing flipped teaching at the high school level. In 2007, they recorded their lectures and posted them online to accommodate students who missed their classes. They developed the "Flipped-Mastery" model and wrote extensively about it in their book *Flip Your Classroom*.

On June 27, 2016, Jonathan Bergmann, one of the originators of flipped learning, launched the Flipped Learning Global Initiative, led by Errol St. Clair Smith. On January 26, 2018 the Flipped Learning Global Initiative introduced its International Faculty, created to deliver a consistent standard of training and ongoing support to schools and school systems around the world.

### Components of flipped classroom

The international society for teaching in education, lists four components required for flipped classroom.

#### 1. Building relationship

Have a positive relationship with peers and teachers in the classroom. Therefore the classes are more authentic.

#### 2. Personalized learning

It gives opportunities to address diverse learning styles & abilities.

#### 3. Passion based learning

Flipped classroom offer great opportunities to the students to explore their passion in learning i.e.) high level on Blooms taxonomy.

#### 4. Project based learning

It allows students to apply their skills hands on within the context of real life situations.

Flipped classroom is composed of various components, such as

- Video collections
- Digital slideshows
- Student discussion
- Teacher and student online communication

### Benefits

1. A college reading empirical study identified that the flipped classroom's approach as including all forms of learning (i.e. oral, visual, listening, hands on, problem solving, etc.).

2. The flipped classroom uses a more application-based approach for students (i.e. hands on and problem solving activities).

3. The flipped classroom is extremely convenient, especially for the students who face difficulties in traveling to the physical classroom.

4. Communication is greatly emphasized in a flipped classroom setting i.e.) student-student and student-teacher interactions.

5. The flipped classroom uses a student-centered teaching model to ensure that the course is primarily aimed at contributing to the student's overall success in obtaining a proper, effective education.
6. It avoids the overarching idea of "cramming" for exams.
7. It encourages students to understand the underlying rationale behind the information provided being provided to them.
8. Students must account for their responsibility to learn the foundational information provided, as their personal work and contribution will be reflected in the grade that they receive at the end of the course.
8. The questions aroused during watching the video could serve as the raw materials for subsequent class activities, such as discussion. As a result, students are more focused in the in-class session.
9. Recent applications have demonstrated that students not exclusively exhibit amplified demeanor towards accomplishment of an exercise, but also show elevated passion for their progression and output.

### **Limitation and criticism**

1. For students, there exists a 'digital divide'. Access to computers or video-viewing technology outside of the school environment is not possible for all students.
2. Some students may struggle due to their developing personal responsibility. In a self-directed, home learning environment student who are not at the developmental stage required to keep on-task with independent learning may fall rapidly behind their peers.
3. Flipped classroom leads to increased computer time in an era where adolescents already spend too much time in front of computer screens.
4. Flipped classrooms rely on videos to deliver instruction.
5. Increased preparation time is initially needed for the teacher.
6. As creating high quality videos requires teachers to contribute significant time and effort.
7. Funding may also be required to procure training for teachers to navigate computer technologies involved in the successful implementation of this model.

### **Why should we flip our classroom?**

There are a couple of reasons why teachers should consider flipping

- Flipping speaks the language of today's students.
- Flipping helps busy students.
- Flipping helps struggling students.
- Flipping helps students of all abilities to excel.
- Flipping allows students to pause and rewind their teacher.
- Flipping increases student-teacher interaction.
- Flipping allows teachers to know their students better.
- Flipping increases student-student interaction.
- Flipping allows for real differentiation.

- Flipping changes classroom management.
- Flipping changes the way we talk to parents.
- Flipping educate parents.
- Flipping makes your class transparent.
- Flipping is a great technique for absent teachers.
- Flipping can lead to the flipped mastery program.

### How to implement a flipped classroom?

Jeff Dunn (2014) has wrote a short piece on “The 6-step guide to flipping your classroom”,

#### 1. Plan

Outline the key learning outcomes and a lesson plan.

#### 2. Record

Instead of teaching this lesson in-person, make a video. Make sure it contains all the key elements you'd mention in the classroom.

#### 3. Share

Send the video to your students. Make it engaging and clear. Explain that the video's content will be fully discussed in class.

#### 4. Change

Now your students have viewed your lesson, they're prepared to actually go more in-depth than ever before.

#### 5. Group

An effective way to discuss the topic is to separate into groups where students are given a task to perform. Write a poem, a play, make a video, etc.

#### 6. Regroup

Get the class back together to share the individual group's work with everyone.

After the six steps, Review, Revise, and Repeat!

Some other strategies that can be used in in-class activities include:

- **Active learning** - Allow students to apply concepts in class where they can ask peers or instructors for feedback and clarification.
- **Peer instruction** - Students can teach each other by explaining concepts or working on small problems.
- **Collaborative learning** - Collaborative learning activities could increase student engagement, enhance student understanding, and promote collective intelligence.

- **Problem-based learning** - Class time can be spent working on problems that can last for the duration of a semester.
- **Discussions or debate** - Give students the opportunity to articulate their thoughts on the spot and to develop their arguments in support of their opinions or claims.

### Future of the flipped classroom

The pandemic caused a surge in the use of flipped classroom model, as educators and students could no longer rely solely on meeting in person. Flipped classroom are here to stay. Their efficacy during the pandemic proved that this pedagogical approach can transcend time & location offering unparalleled flexibility for all involved.

### References

- Bergmann, J., & Sams, A. (2012). Flip your classroom: Reach every student in every class every day. Eugene, or: International Society for Technology in Education.
- Center for Teaching Innovation at Cornell University. (2017). Flipping the classroom. Retrieved from <https://www.cte.cornell.edu/teaching-ideas/designing-your-course/flipping-the-classroom.html>.
- Chen, F., Lui, A. M., & Martinelli, S. M. (2017). A systematic review of the effectiveness of flipped classrooms in medical education. *Medical Education*, 51(6), 585–597. <https://doi.org/10.1111/medu.13272>
- Dunn, J. (2014). The 6-step guide to flipping your classroom. Retrieved from <https://kitzu.org/flipped-classroom-model/>

