

# Flipped Classroom

Dr. Dipak Chavan  
Professor,  
Tilak College of Education,  
Pune 30



# **FLIPPED CLASSROOM FLIPPED**

## **Instructional Goal**

**To provide teachers with the requisite conceptual and pedagogical knowledge to implement a flipped classroom.**

## **Main Objectives**

**Develop a conceptual understanding of the Flipped Classroom model**

## **Audience**

**Teachers in Grades 11-12**

# Objective Questions

- What is Traditional Classroom?
- What is Flipped Classroom?
- What the flipped classroom is not?
- Why to flip the classroom?
- Steps of flipping the classroom?
- Advantages flipped classroom?
- Limitations of flipped classroom?

# The traditional Classroom



Teachers: Lecturing  
Students: Listening



Teachers: Still Lecturing  
Students: Out Cold

# Traditional Classroom

Teacher instructs

Students take notes

Students follow guided instruction

Teacher gives assessment

Students have homework

## The Problem

- ✗ Students: Passive Learners
- ✗ Teachers: "Sage on the Stage"

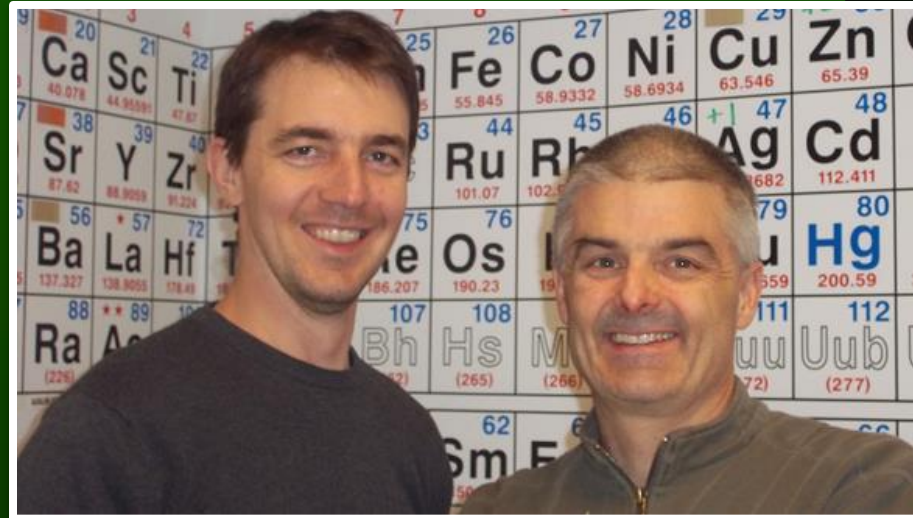


## The Solution

- ✓ Students: Active Learners
- ✓ Teachers: "Guide on the Side"

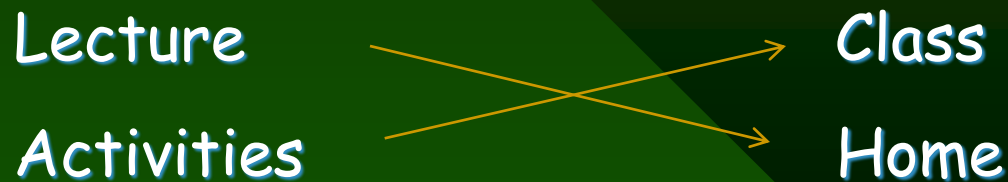


# The Pioneers



Aaron Sams & Tom Bergmann

## The Method



## The Steps

1. Record Lecture & Post Online
2. Assign Video as Homework
3. Use Class for Activities

# Flipped Classroom...

- The term "Flipped Classroom" was coined and popularized by Bergmann and Sams teachers from Colorado, in 2007. They adopted a strategy to reverse the timing of homework and lectures. Video lectures were provided for students before class and then exercises (homework) was done in class under supervision.



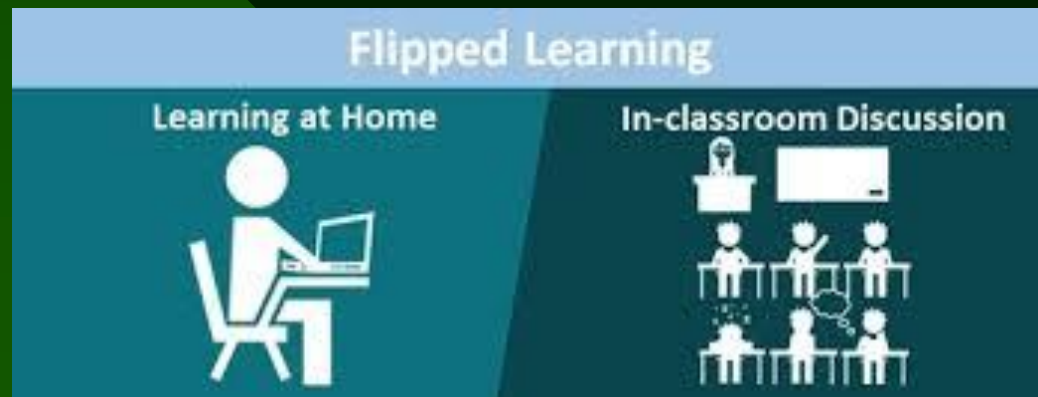
# Flipped Classroom



- A reversal of traditional teaching where students gain first exposure to new material outside of class, usually via reading or lecture videos,  
and then class time is used to do the harder work of assimilating that knowledge through strategies such as problem-solving, discussion or debates is known as the flipped classroom.

# Flipped Classroom...

- Lectures took place outside of class and class time is devoted to group and individual problem solving, discussion, critical thinking and experiments.



# Flipped Classroom...

- There is no set formula for the flipped classroom. Each implementation will differ because of wide variables such as class size, discipline, teaching style, technology and resources.
- A common theme is that there is a greater focus on students' concept exploration, meaning making and demonstration with more opportunities for discussion, formative assessment and feedback.

**FLIPPED  
CLASSROOM  
FLIPPED**

# Flipped Classroom...

- Flipped classroom is an instructional strategy and a type of blended learning that reverses the traditional educational arrangement by delivering instructional content, often online, outside of the classroom.
- 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 and engage in concepts in the classroom with the guidance of a teacher.

# Flipped

Teacher instructs lesson at home  
(video / podcast / book/ website)

Students work in class.

- Deeper understanding of concepts, applications, and connections to content are made.
- Students receive support as needed.

# Flipped Classroom...

- A flipped classroom (also known as flip teaching and the Thayer Method, Inverted Classroom)
  - is a learning environment where students learn new content on their own by watching video lectures or other online sources and assigned problems (traditional "homework") are completed in class with teachers offering personalized guidance instead of lectures. Essentially the classroom has been flipped from a traditional learning environment.

# The Flipped Classroom is:

- A means to increase interaction and personalized contact time between students and teachers.
- An environment where students take responsibility for their own learning.
- A classroom where the teacher is not the "sage on the stage", but the "guide on the side".
- A blending of direct instruction with constructivist learning.

# The Flipped Classroom is...

- A classroom where students who are absent due to illness or extra-curricular activities such as athletics or field-trips, don't get left behind.
- A class where content is permanently archived for review or remediation.
- A class where all students are engaged in their learning.
- A place where all students can get a personalized education.



# The Flipped Classroom is not-

- A synonym for online videos. When most people hear about the flipped class all they think about are the videos.
- It is the interaction and the meaningful learning activities that occur during the face-to-face time that is most important.
- About replacing teachers with videos, An online course.
- Students working without structure.
- Students spending the entire class staring at a computer screen.
- Students working in isolation.

# Why flip the classroom?

- To enhance teaching- learning process.
- To teach effectively.
- To improve students' understanding and retention of information
- To develop students' higher order cognitive skills.
- To improve educational outcomes,
- To increases student's performance

# How to create flipped classroom?

- Creating a flipped classroom is takes only a few steps:

1. Create a video of the lessons:
2. Share the video or digital lessons:
3. Encourage students to prepare:
4. Create in-class activities

Use the class time differently:

- Flipping the classroom is a great way to change up your teaching style and give the students a new way to learn the material.

# Steps to create flipped classroom

## 1. Create a video of the lessons:

First create a video of the lesson or string together multiple online and digital resources into a lesson. This can involve recording yourself speaking or curating other educator's material or a combination of the two. In addition you can also ask questions via Google Forms.

## 2. Share the video or digital lessons:

Next you share the video or digital lesson with students via your school's email system, your teacher site, or even tweet the link to your students.

## 3. Encourage students to prepare:

## 4. Create in-class activities

Use the class time differently:

Instead of spending class time as you normally would by lecturing the students, provide one-on-one instruction to ensure that the students fully grasp the material.

- **Different Views on the Flipped Classroom**

With the appearance of the Khan Academy, the idea of the flipped classroom has become one of the hottest discussions in the academic world. In general, we believe that online learning and certain academic technologies are worthwhile. However, with all the **hoopla** over the flipped classroom, there remain both advantages and disadvantages to the teaching method.

# Advantages of Flipped Classroom

1. Makes teaching learning process learning centred rather than teaching centered
2. Promotes peer interaction and collaboration skills
3. Fosters independent learning
4. Encourages higher student engagement
5. Provides increased individualised attention
6. Teachers only has to create videos once
7. Teachers can collect formative data through videos and observations

# Advantages of Flipped Classroom

8. Students get support with application
9. Students can watch videos multiple times
10. Flipped learning keeps students more engaged.
11. Teachers provide more personalized attention.
12. Students can work at their own pace
13. Video lectures can be edited, polished, and rerecorded.
14. Students can pause, replay, and watch lectures repeatedly at their convenience.

# Advantages of Flipped Classroom

## For students

- Learn at their own pace
- Engage concepts with peers
- Frustration levels remain low
- Particular benefit to those students whose
- personality types and preferred learning styles
- impair their performance in traditional
- educational environment

## For teachers

- Work closely with students in the classroom
- Improve student attitudes
- Teachers can group students together
- Improve students' ability to solve open-ended
- problems



# Advantages.....

- In the traditional classroom, students often try to capture what is being taught at the instant the teacher says it.
- They cannot stop to reflect upon what is being taught, and they may miss some significant points because they are trying to transcribe the teacher's words.
- The application of video and other prerecorded media, by contrast, puts courses under the control of students: they can watch, rewind, and fast-forward as necessary.
- Courses can be viewed more than once, which may help someone that English is not their native language.
- At the same time, collaborative learning projects can encourage social interaction, teamwork and cultural diversity among students, making it easier for them to help each other mutual learning and for those of different skill levels to support one another.

# Advantages.....

- Teachers can devote time to helping students develop synthesis and explore application during class time through:
  - experiential exercises,
  - team projects,
  - problem sets, and
  - activitiesthat previously had been assigned as independent homework.
- In the typical classroom, students attend regular class lectures and then do their exercise at home.
- While, the flipped classroom allows students to read the articles and watch videos at home and then work with their peers on the projects during school hours.
- All those increase teamwork skills, and enhance mutual understanding and trust.
- The teacher can spend class time working one-on-one with the student who requires extra help.

# Limitations of Flipped classroom

1. It can create a digital divide.
2. Flipped classroom may put undue pressure on some families as they attempt to gain access to videos outside of school hours.
3. Flipped classroom leads to increased computer time.
4. Flipped classroom rely on computerized videos do contribute to this challenge, particularly if videos are long.
5. Flipped classrooms that rely on videos to deliver instruction suffer difficulties like students may not learn best by listening to a lecture, and watching instructional videos at home.

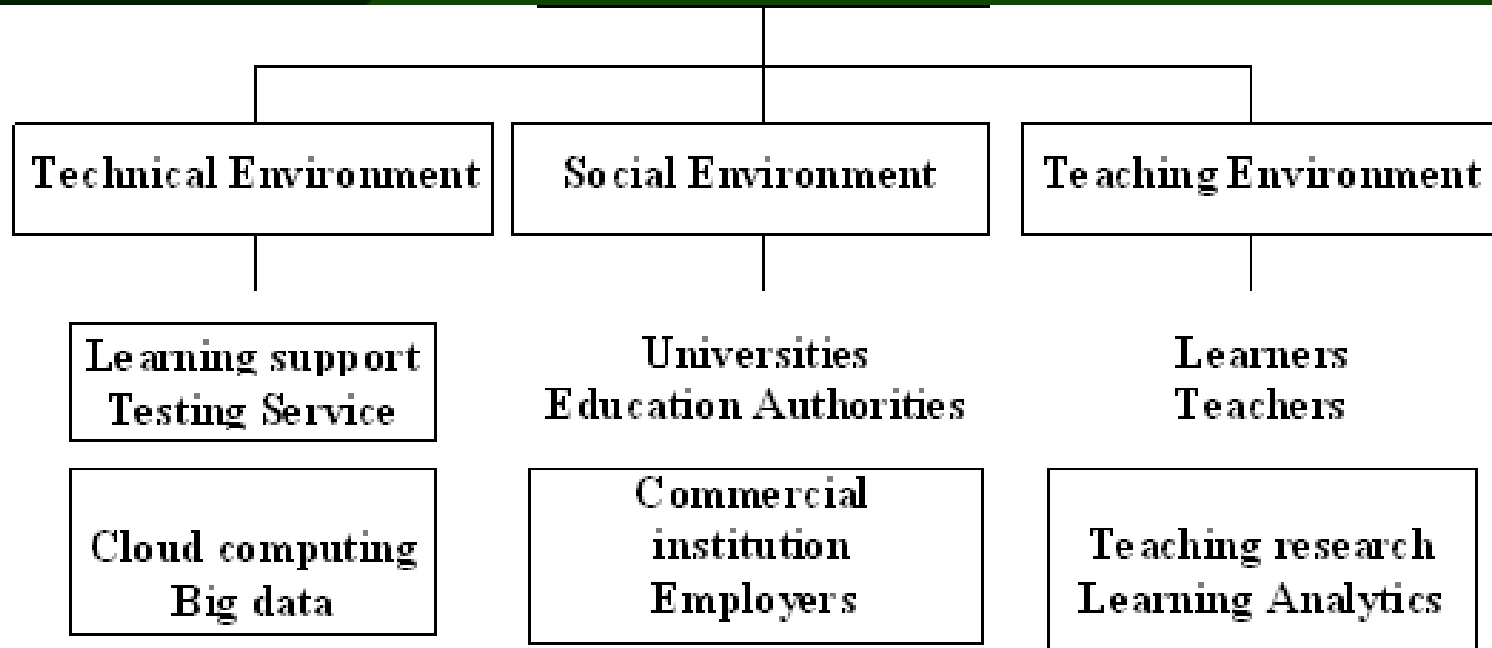
# Limitations of Flipped classroom

6. Initially increased preparation time is needed for the teacher, for creating high quality videos requires teachers to contribute significant time and efforts.
7. Additional funding may also be required to procure training for teachers to navigate computer technologies involved and successful implementation.
8. Requires more time and technological skills for teachers
9. Requires access to devices and internet outside the school/ college

# Development of the Flipped Classroom

- The Development of the Flipped Classroom Needs a Multi-disciplinary Cooperation Learning Ecology
- Unlike the traditional classroom, the flipped classroom requires additional skills,
- provided by photographer, videographer,
- instructional designers, business manager,
- IT specialists, platform specialists, and so on.
- Teaching environment, technical environment and social environment form a multi-disciplinary cooperation learning ecosystem

# The flipped classroom



- Science and technology can lay a foundation for the development of the flipped classroom.
- New tools emerge to support the out-of-class portion of the curriculum.
- The rapid development of portable electronic devices will put a wider range of educational resources into the hands of students at anytime and anyplace.
- Currently, more audio and video educational resources can be obtained with the popularization of internet and information technology.
- Developed social network brings a better platform for learners around the world, which greatly reduces the threshold of online learning.
- Professor Daphne Kohler said the video cost is reducing and makes online teaching and learning easier and cheaper.

- As Nathan Harden ominously noted, "recent history shows us that the Internet is a great destroyer of any traditional business that relies on the sale of information."
- It is easy to get wrong in the flipped classroom.
- Although the idea is straightforward, a successful and effective flip needs careful preparation.
- Making videos requires feeding with more energy on the part of faculty, and extra-curricular and curricular elements must be carefully integrated for learners to understand.
- As a result, introducing a flipped classroom means additional work and new skills for the teacher.



- The flipped classroom provides a new methodology and modality for teaching and learning, which constitutes a role change for instructors who give up their front-of-the-class position in favor of a more cooperative and collaborative contribution to the teaching process.
- The roles of students have a corresponding change from passive participants to positive participation.
- The flipped classroom puts more responsibility on the shoulders of students and gives them greater impetus in the process of learning.
- While it remains unclear how the flipped classroom will evolve in the years to come, early trends allow us to estimate that they might bring about a dramatic impact on the traditional colleges and universities.
- Combining traditional instructional methods with online learning will no doubt play a major role in providing high quality education to learners.

# Group Activity

- Group 1. What are the problems to convert your classroom as a Flipped classroom?
- Group 2. How will you overcome the problems While came across converting your classroom as a Flipped classroom?
- Group 3. What are your expectations from Management, Principal, Colleagues, students and Parents while accepting this change?



WHAT IS A FLIPPED CLASS?

**Any Questions?**



**Thank You teachers.**