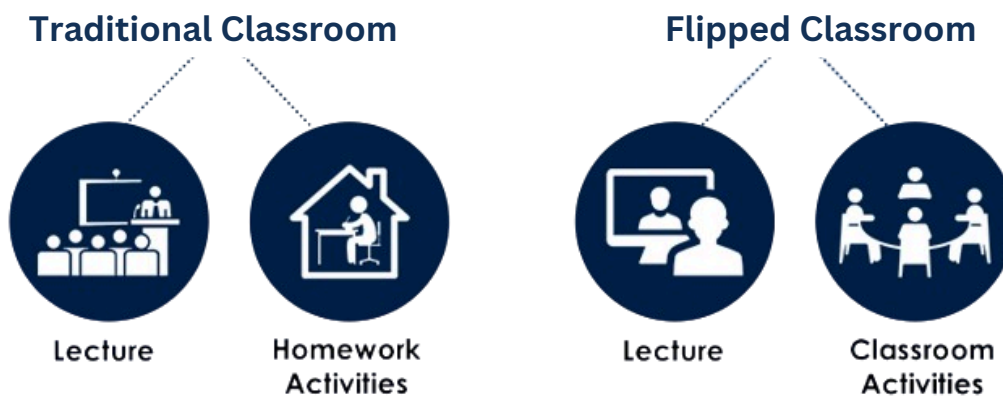




Flipped Classroom

The flipped classroom is an active teaching method that enhances student engagement by reversing the traditional learning environment. In this approach, instructional content is delivered outside of the classroom, while class time is dedicated to interactive activities that promote deeper understanding and application of knowledge. This guide provides a step-by-step approach to implementing the flipped classroom model effectively.

I. Traditional VS. Flipped Classroom Model



- The instructor delivers lectures during class time.
- The Students complete assignments and problem-solving exercises as homework.

- The Students review lecture materials, videos, or readings before class.
- Class time is used for interactive activities, problem-solving, discussions, and applying concepts.

II. How to Teach a Flipped Classroom?

1. Identify Learning Objectives

- Clearly define what students should know and be able to do by the end of the course.
- Design pre-class and in-class activities that align with these objectives.

2. Select Content for Pre-Class Activities

- Choose or create video lectures, readings, or other materials that cover the essential concepts.
- Keep pre-class materials concise and focused, ideally no longer than 15-20 minutes of video or a short reading assignment.

3. Design In-Class Activities

- a. Develop activities that require students to apply, analyze, and synthesize the material they reviewed before class.
- b. Consider problem-solving exercises, case studies, discussions, group work, or projects.

4. Set Clear Expectations

- a. Communicate to students how the flipped classroom works, what is expected of them, and how they should prepare for class.
- b. Explain the importance of completing pre-class work to ensure they are ready to engage in class activities.

III. Create and Curate Pre-Class

Video Lectures

- Record your own video lectures using tools like [Panopto](#), [MS. Teams](#), [Zoom](#), or [Camtasia](#), or use existing educational videos (e.g., [Khan Academy](#), [YouTube EDU](#)).
- Break up long lectures into shorter, focused segments.

Readings

- Assign relevant textbook chapters, articles, or other readings that provide necessary background information.
- Consider using online resources like [open textbooks](#), [open educational resources](#), or articles available through the [university's library](#).

Interactive Content

- Use tools like [Edpuzzle](#) or [H5P](#) to create interactive video content that includes quizzes, prompts, or reflections.
- Provide online quizzes or discussion prompts that students must complete after reviewing the pre-class content.

IV. Implement In-Class Activities

Active Learning Strategies:

- **Problem-Solving Sessions:** Have students work in groups to solve complex problems based on pre-class material.
- **Case Studies:** Use real-world scenarios that require students to apply what they've learned.
- **Peer Teaching:** Allow students to teach or explain concepts to their peers, reinforcing their own understanding.

Group Work and Collaboration:

- Encourage students to work collaboratively on projects or tasks, fostering communication and teamwork skills.

- Use tools like [Google Docs](#), [Microsoft Teams](#), or [OneDrive](#) for collaborative activities.

Socratic Seminars and Discussions:

- Facilitate deep, critical discussions by posing open-ended questions based on the pre-class content.
- Encourage students to debate different viewpoints or approaches to a problem.

Formative Assessments:

- Use in-class quizzes, polls, or quick reflections to gauge student understanding and adjust your teaching as needed.
- Tools like [Kahoot](#), [Poll Everywhere](#), [Microsoft Forms](#) or [Google Forms](#) can be useful for these assessments.

V. Implement In-Class Activities

Pilot the Approach:

- Start by flipping one or two classes to introduce students to the new format gradually.
- Gather feedback from students on what worked well and where they struggled.

Provide Support and Resources:

- Offer guidance on how to effectively engage with pre-class materials, such as note-taking strategies or how to use provided resources.
- Be available to answer questions or provide additional help outside of class.

Encourage Accountability:

- Use quizzes, reflection papers, or discussion posts to ensure students are engaging with the pre-class content.
- Consider incorporating participation in these activities into their overall grade.

VI. Assess and Reflect

Student Feedback:

- Collect feedback through surveys or informal discussions to understand how students are adapting to the flipped classroom.
- Use this feedback to make adjustments and improve the experience.

Evaluate Learning Outcomes:

- Compare student performance and engagement before and after implementing the flipped classroom.
- Assess whether students are achieving the desired learning objectives more effectively.

Continuous Improvement:

- Reflect on your own experience teaching in a flipped classroom. Identify what worked well and what can be improved.
- Stay updated with new tools, techniques, and research on flipped learning to continuously enhance your approach.

VII. Tools and Resources for Flipped Classrooms

Video Creation Tools:

- **Camtasia**: For creating and editing video lectures.
- **Panopto**: For recording and sharing lectures with students.
- **Zoom**: For live sessions that can be recorded or pre-recorded and shared.
- **Microsoft Teams**: For live sessions that can be recorded or pre-recorded and shared.

Interactive Content Tools:

- **Edpuzzle**: For adding quizzes and interactivity to videos.
- **H5P**: For creating interactive HTML5 content like quizzes, interactive videos, and presentations.

Collaboration Tools:

- **Google Docs/Sheets**: For collaborative documents and spreadsheets.
- **Microsoft Teams**: For team communication and collaboration.
- **Padlet**: For collaborative brainstorming and idea sharing.

Assessment Tools:

- **Kahoot**: For creating engaging quizzes and polls.
- **Poll Everywhere**: For live polling during class.
- **Google Forms**: For collecting student feedback or quiz responses.
- **Microsoft Forms**: For collecting student feedback or quiz responses

FOR MORE INFORMATION



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