Flipped Instruction in the Online Synchronous and Asynchronous Environments

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What is Flipped Learning?

The governing board and key leaders of the Flipped Learning Network (FLN) announced the formal definition of the term.

> “Flipped Learning 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.”

The Four Pillars of -E-I-P

1. Flexible Environment
2. Learning Culture
3.

Intentional Content

Professional Educator

Citation: Flipped Learning Network (FLN). (2014) The Four Pillars of F-L-IP™ Reproducible PDF can be found at www.flippedlearning.org/definition.

The Benefits of Flipped Learning

- Active participation rather than passive observation
- Differentiated learning preferences are accommodated
- Content is available to the students at any time, any place and at any pace
- The students have the ability to stop, pause, replay and review
- The current generation is used to accessing knowledge online
- Levels the playing field by personalizing learning

Benefits Continued

- Less lecturing more interaction
- Gets students engaged
- You can guide the students when they are going in the wrong direction
- Builds relationships between students, between students and the instructor and helps create a sense of community

Benefits Continued—the 4 “C’s”

Encourages:

- Collaboration
- Communication
- Critical thinking and problem solving
- Creativity

Benefits Continued

- Emphasizes higher order thinking

Citation: Image from https://sites.google.com/site/theamazingworldofteaching/topics-i/bloom-s-taxonomy

The Challenges of Flipped Learning

- A LOT of work up front
- More self directed and requires more check ins with the students, especially the less engaged students
- It is new to students

How to Flip a Lesson

You don’t have to flip everything try a lesson or two to start!

How to Flip a Lesson continued

4. Content creation – create videos – be a bridge between the content and the students:
   - Have beginning middle and end
   - Short videos, you can have many videos but they should be no longer 15 minutes
   - Be yourself, have fun, be engaging
   - Tell stories – stories make the materials relatable and relatable
   - Don't worry about editing equipment. You can make videos with just Kaltura and your webcam. You can also edit if need be (e.g. cut off extra time at the beginning or end) with Kaltura.

How to Flip a Lesson continued

5. Plan your "in-class" activities – these should include activities where students practice and apply concepts. Students use group work or partner work to develop a deeper understanding of the content.
6. Technology training
7. Classroom management
8. Create clear instructions – provide guidelines, checklists, rubrics etc. to help guide students

How to Flip a Lesson continued

9. Assign content for homework – independent learning
10. Group work/peer tutoring/students work on problems together. Teacher monitors and helps as needed.
11. Regroup – whole class back together report on work/progress and final presentations
12. Assess students understanding (see step 2)
13. Evaluate the success of the lesson and adjust as needed

Asynchronous Online Class Environment

- Consists of learning that does not occur at the same time or place. It uses resources to facilitate learning outside of the constraints of time and place.

Asynchronous Examples of a Flipped Lesson

- Reading Reflection
- Videos/Podcasts
- Math Review
- Introduce yourself

Asynchronous Reading Reflection

- Place 5-7 articles in the course
- Ask the students to choose 2 of the articles to discuss
- Randomly group the students in groups of 2
- In each group, have the students talk about the effects of the article(s) on their personal, professional and/or academic life.
- Why did they choose those articlee

Image retrieved: https://kingsandqueenswonderland.wordpress.com/

Learning Outcomes of Reading Reflection (Asynchronous)

- Collaboration
- Student Center learning
- Instructorinteracts with the students
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Asynchronous Videos/Podcasts

- Pair students with a classmate
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Image retrieved: https://kingsandqueenswonderland.wordpress.com/

Learning Outcomes of Videos/Podcasts (Asynchronous)

- Students demonstrate group work
- Students demonstrated Bs(S0 yo/5.64 0 0 T/(Bs 1 T4 0 0 3 o3

Asynchronous Math Review

- Assign problems.
- Students can work together to solve problems.
- Students show how they worked the problem on the course’s main discussion board.
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Image retrieved: https://kingsandqueenswonderland.wordpress.com/

Learning Outcomes of Math Review (Asynchronous)

- Students demonstrate group work
- Students demonstrate collaboration
- Students demonstrate the ability to problem solve
- Students are able to identify problem areas and work towards a resolution.

Asynchronous Introduce Yourself

Students will be asked to score themselves from 1 to 10 on the following items.
A score of 1 indicates minimal knowledgw icatrc,.1(1).o1ainn the tpnA scor of(o)

Asynchronous Introduce Yourself

- I consider myself a sports expert.
- Cooking is one of my hobbies
- I love to read
- I am interested in the subject matter of this course
- I feel comfortable with computers

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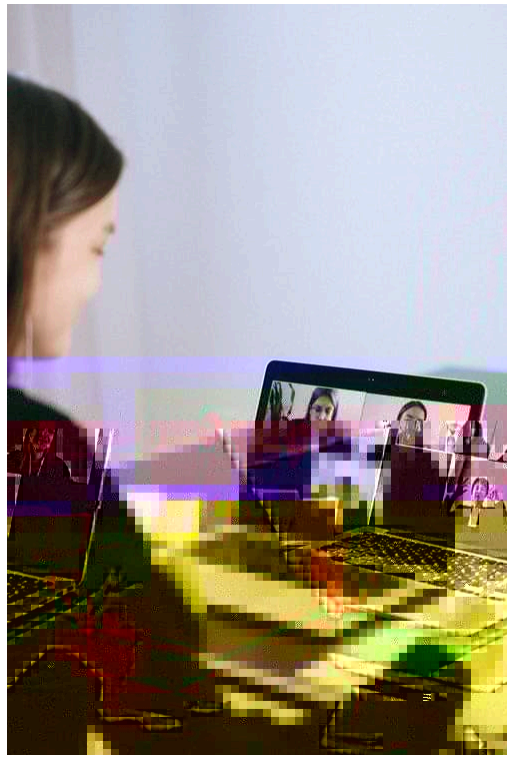
Synchronous Online Class Environment

- Synchronous learning happens when the students are all engaged in learning from an instructor at the same time. Online this often takes place using communications software.



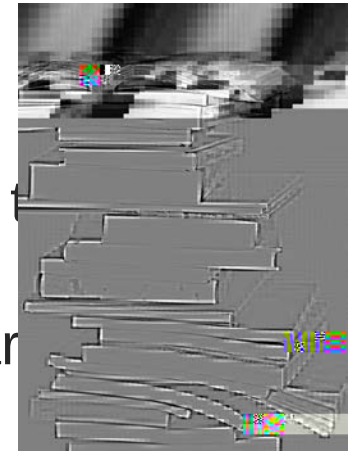
Synchronous Examples

- Reading Reflection
- Videos/Podcasts
- Math Review
- Syllabus Scavenger Hunt
- Introduce yourself

* Note that most examples can be done both synchronously and asynchronously.

Synchronous Reading Reflection

- Place 5-7 articles in the course (course related content)
- Ask the students to choose 2 of the articles to read before class
- Once the class starts, divide the students into a group (according t article they are read).
- In each group, have the students to talk about the effects of the ar on their personal, professional and/or academic life.
- Why did they choose those articles?
- The instructor can join each of the groups, ask questions and provide feedback to the students.



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Learning Outcomes of Reading Reflection (Synchronous)

- Collaboration
- Student Center learning
- Instructor gets to interact with the students
- Students illustrate their understanding of the articles
- Students identify various ways to look at the material.

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Synchronous Math Review

- Assign problems before the class.
- Students can work together to solve problems.
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Image retrieved: https://kingsandqueenswonderland.wordpress.com/

Learning Outcomes Math Review (Synchronous)

- Maximize class time
- Provide an opportunity for students to learn from each other
- Get immediate feedback on their work and progress
- Students apply what they have learned to future lessons.
- Students demonstrate that they are able to work with peers to solve problems.

Synchronous Syllabus Scavenger Hunt

Prior to class ask the students to review the syllabus and be prepared to discuss the items on the syllabus.

Once class starts students can work with a partner or work by themselves. At the end of the class they will hand in their answers or have an open class discussion regarding their findings.

Write down the clues / answers (have the students to look for the below information)

- Due dates
- Instructors email address/Contact information
- Schools email address
- Final exam dates
- Proctor information
- Help desk
- Etc. …

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Learning Outcomes of Syllabus Scavenger Hunt (Synchronous)

- Students demonstrate that they know how to locate information on the syllabus.
- Students are aware of what information is on the syllabus.
- Students practice their research skills
- Students build problem solving skills

Synchronous Introduce Yourself

Students will be asked to score themselves from 1 to 10 on the following items. A score of 1 indicates minimal knowledge or interest, and the top score of 10 signifies that you are very interest or ready to teach the subject. Enter your scores for each item on the discussion board or in the chat room as the question is presented.

Citation: https://www.wiley.com/en-us/Engaging+the+Online+Learner%3A+Activities+and+Resources+for+Creative+Instruction%2C+Updated

Image retrieved: https://kingsandqueenswonderland.wordpress.com/

Learning Outcomes of Introduce Yourself (Synchronous)

- Students learn about their classmates.
- Students realize that they have things in common with some of their classmates
- Students distinguish differences and similarities with classmates
- Students summarize what they learned about their classmates and introduce them to the rest of the class.

Conclusions

- It can be done!
- It isn’t easy
- One lesson at a time

Questions and Contact Information

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Pace Online Instructional Design Website:

https://www.pace.edu/online-instructional-design