How to flip your class online, when the world is flipping out

A hands/brains-on demo

24 March 2020
75-student team & project based class!
Information transfer
instructor-paced
synchronous
lecture

Sense-making
self-paced
asynchronous
home work/study
- instructor-paced, synchronous lecture
- instructor-paced, synchronous lecture
- self-paced, asynchronous, home work/study
- information transfer
- sense-making
- information transfer
instructor-paced synchronous lecture

information transfer

campus

instructor-paced asynchronous recorded lecture

home

sense-making

home

self-paced asynchronous home work/study
campus
information transfer
instructor-paced synchronous lecture

home
instructor-paced asynchronous recorded lecture

home
sense-making
self-paced asynchronous home work/study
ALONE!

Instructor-paced synchronous lecture

Instructor-paced asynchronous recorded lecture

Self-paced asynchronous home work/study

Information transfer

Sense-making
Online information transfer and sense-making are compared.

- Online learning can be self-paced and asynchronous.
- Instructor-led learning is synchronous.

These methods offer different approaches to learning, catering to varying needs and preferences.
interactive

Information transfer

Self-paced
Asynchronous

Sense-making
Instructor-led
Synchronous
interactive

two evidence-based approaches
let’s explore these two steps

- **online**
  - information transfer
    - self-paced
    - asynchronous

- **online**
  - sense-making
    - instructor-led
    - synchronous
let’s explore these two steps

(using two free tools)
asynchronous information transfer

Perusall
asynchronous information transfer

Perusall...
• is a text-based social learning platform
• takes information transfer out of classroom
You will...

1. create a (dummy) course (while I create mine)
2. join my course to get the student experience
asynchronous information transfer

1. in your browser go to: app.perusall.com
2. if you have an account, log in, then wait
asynchronous information transfer

1. in your browser go to:  app.perusall.com
2. if you have an account, log in, then wait
3. if you don’t have an account, follow along
1. app.perusall.com

2a. sign in here, or...

2b. click register
create a course...

(if you logged in with existing account, click “Create course” at top left of page)
...select “instructor” and...

I want to create a course...

Course name

Your unique course URL is based on this name. If you change the name, the URL will change.

Institution

Example Institution (Use for testing only, US)
Type to search for your institution, and contact Perusall support if your institution is not listed.

Course start date

Course end date

Enrollment estimate

20
The approximate number of students you expect to join the course. Perusall will use this value and the Target Group Size to create discussion groups for students.

Target group size

20
Students will be placed into groups of approximately this size and will only be able to see comments and questions within their group. Changing this setting will not retroactively apply to groups that have already been formed, to provide consistency for students.

Based on these settings, Perusall will place students into 1 discussion group(s) for each document. Discussion groups are fixed for a particular document once it is added to the course. Learn more about discussion groups

Select materials

Browse our catalog of available titles
for students to access directly at perusall.com
can’t find your institution? enter “Example Institution”
Why Perusall works

• social connection/interaction *in context*
• incentivizes/motivates participation
• machine learning analysis of engagement
• provides “Confusion Report” to instructor
A few notes

• Perusall is free
• Many textbooks free until summer
• Nearly 100% reading-assignment completion
• Students using Perusall perform better
instructor-led interactive sense-making

- Online
  - Information transfer
  - Self-paced
  - Asynchronous

- Online
  - Sense-making
  - Instructor-led
  - Synchronous
instructor-led interactive sense-making
instructor-led interactive sense-making

Peer Instruction...
- interactive teaching method
- promotes meaningful thinking
You will experience Peer Instruction by…

1. answering question individually
2. discussing question in breakout rooms
3. reanswering question
instructor-led interactive sense-making

Go to: PollEv.com/ericmazur615
question
think
poll
discuss
repoll
explain
Why Peer Instruction works

• engages students to think
• individualizes learning
• students use similar discourse
• helps avoid the “expert blind spot”
Peer Instruction...

- greatly improves learning outcomes
- actively engages students online
- integrates with Perusall
self-paced asynchronous
information transfer
online
sense-making
instructor-led synchronous
home

information transfer

self-paced
asynchronous
pre-class reading

campus

sense-making

instructor-led
synchronous
peer instruction
projects
tutorials
experimental activities
problem sets
assessment

home
information transfer
self-paced asynchronous pre-class reading

campus
sense-making
instructor-led synchronous peer instruction
Improving education

synchronous ↔ asynchronous
Improving education

synchronous and asynchronous

everybody together at the same time
Improving education

synchronous ↔ asynchronous
instructor-paced ↔ self-paced
Improving education

- synchronous
- asynchronous
- instructor-paced (circled)
- self-paced

everybody together at the same pace
Improving education

synchronous ↔ asynchronous
instructor-paced ↔ self-paced
Improving education

synchronous \rightarrow \text{asynchronous}

instructor-paced \rightarrow \text{self-paced}
Improving education

synchronous $\rightarrow$ asynchronous
instructor-paced $\rightarrow$ self-paced

more time to help students where it really matters!
Publishers offering textbooks free until May 25

Broadview Press
Cambridge University Press
CRC Press
McFarland
McGraw-Hill Education
Oxford University Press
Princeton University Press
Routledge
SAGE
Taylor & Francis
Wiley
W.W. Norton & Company
for a copy of this presentation:

mazur.harvard.edu

resource sheet:  bit.ly/fliponline

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eric_mazur