

Engaged and Empowered Learners: Pedagogical Practices Supported by Classroom Response Systems

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(1 Blended Learning

The integration of online and face-to-face strategies (Dzuiban et al., 2004; Graham, 2006; Horn & Staker, 2011; Sharma & Barrett, 2007; Ward & LaBranche, 2003; Young, 2002)

A combination of traditional face-to-face with computer-based learning and instruction

(Kerres & de Witt, 2003)



Asynchronous vs Synchronous Learning



asynchronous:

Discussion boards, quizzes, polls, email, digital documents, recorded audio or video, recorded slides with narration, self-paced courses.

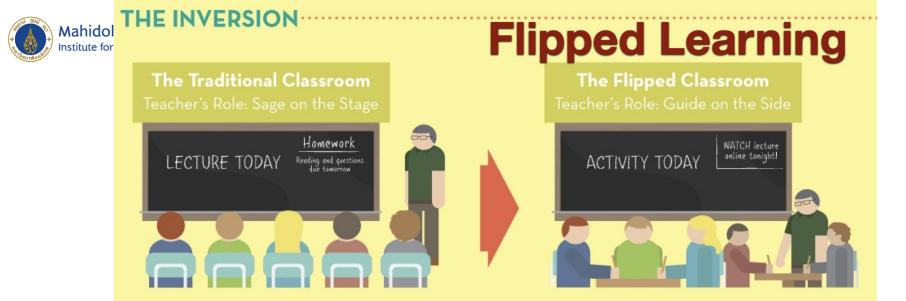
Self-paced Learning

synchronous:

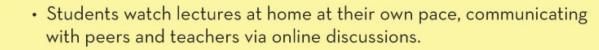
Virtual classroom, live presentations, live text chat, instant messaging, live audio or video chat, live quizzes, live polling

Teacher-led Learning

Photo credit: https://elearningindustry.com/asynchronous-and-synchronous-modalities-deliver-digital-learning



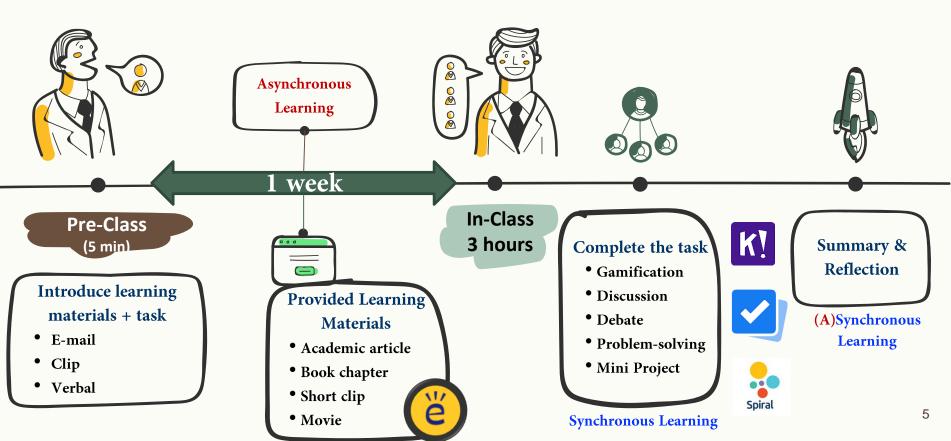
WHAT A FLIPPED CLASSROOM MODEL DOES



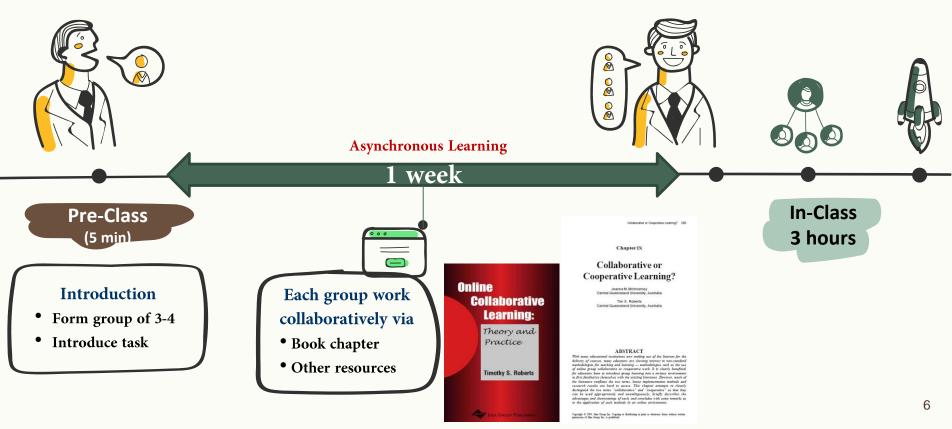
 Concept engagement takes place in the classroom with the help of the instructor.



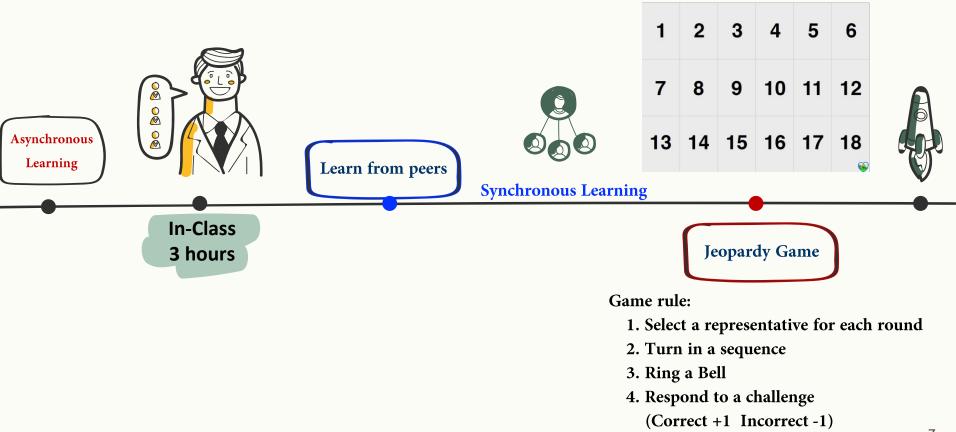
Flipped Learning



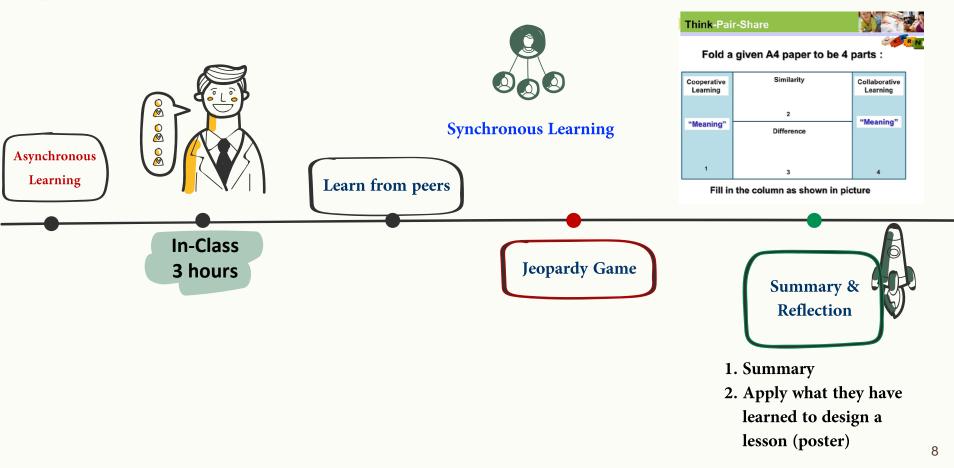




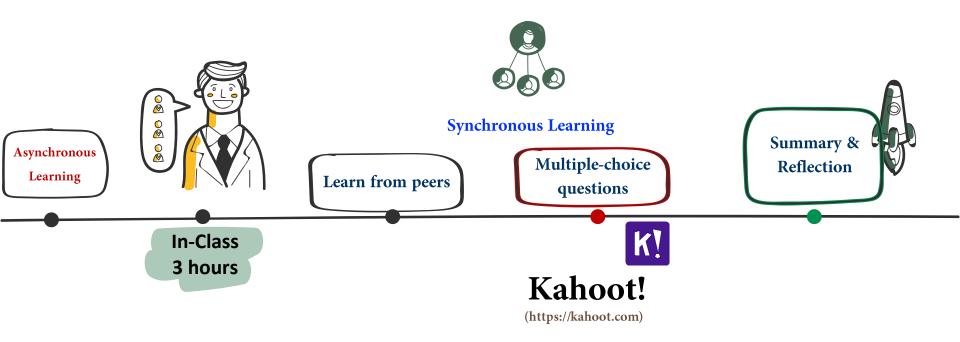
















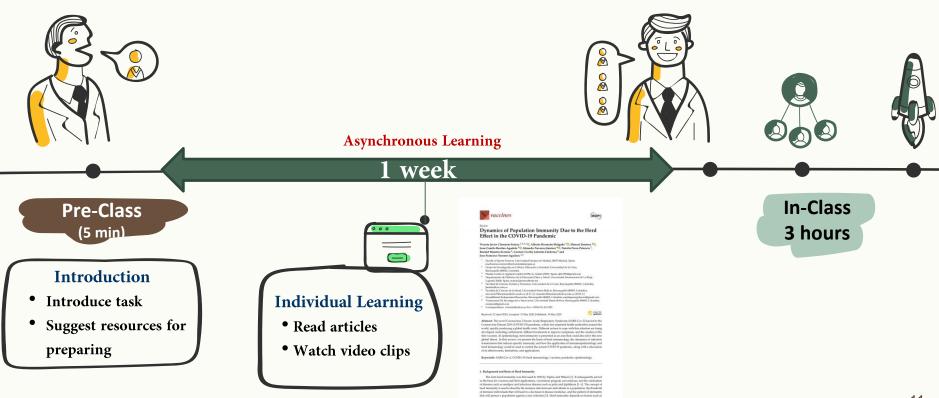
- various modes of response

(for free version : close end only)

- 1-time submit response



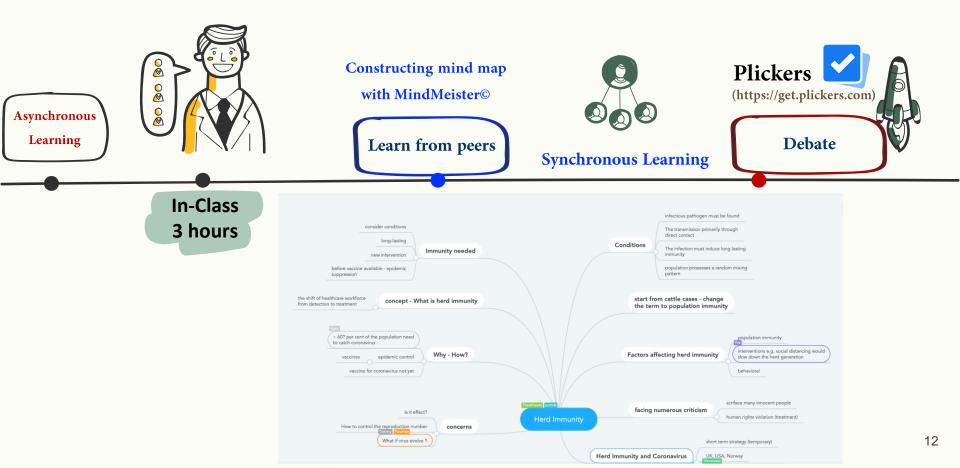
Model 2: Critical Thinking

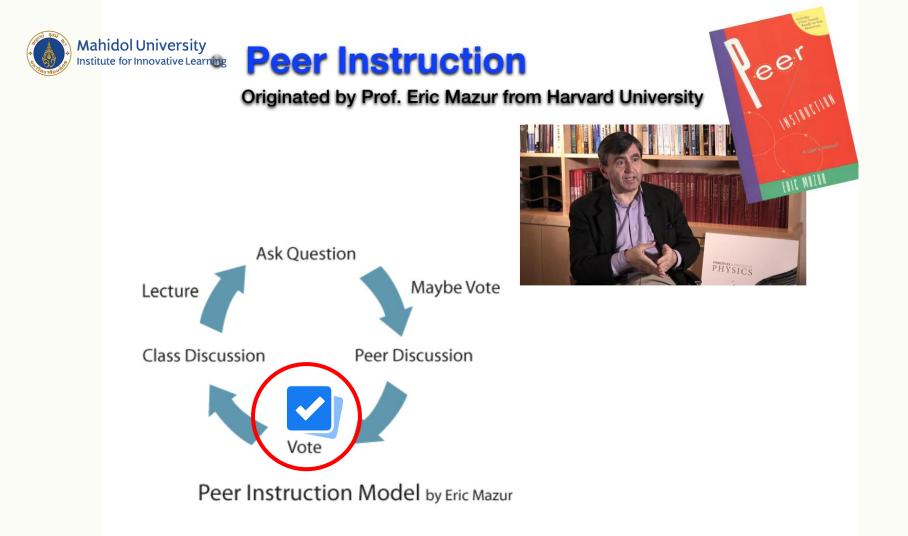


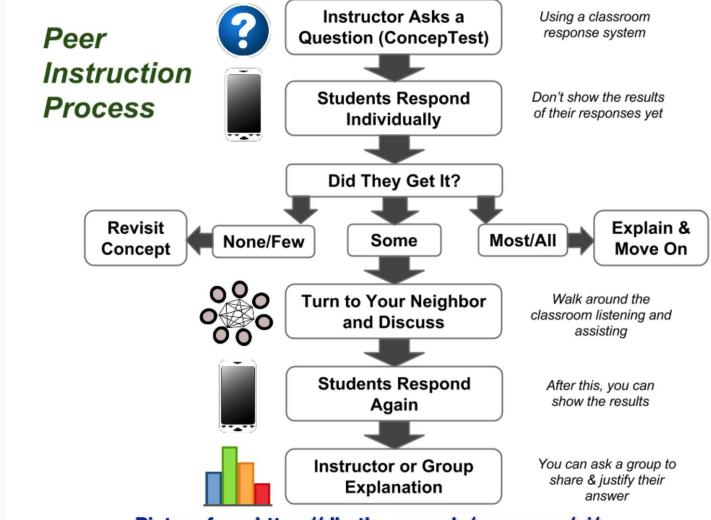
e analyzed the effectiveness of vaccing



Model 2: Critical Thinking



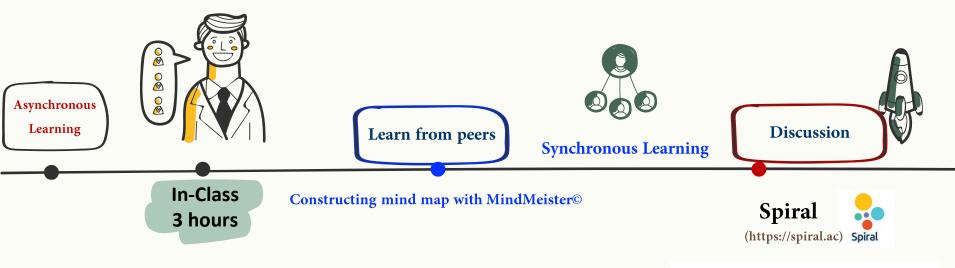




Picture from https://dbctle.erau.edu/resources/pi/



Model 2: Critical Thinking



Imagine that you are the leader of a country.

Suppose your country faces COVID-19 epidemic, please propose ideas to balance between the health of the public and the economy. Provide reasons to support. Spiral is free for the duration of home schooling

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Engage students in lessons and at home with simple to use everyday learning activities.

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Spiral Pro Pricing

No apps to install. No download required.





Launch an activity or post an assignment to be completed asynchronously



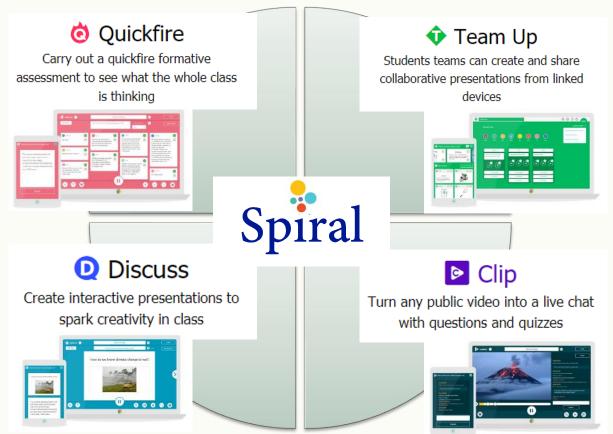
Students connect with the activity using a simple code

Students answers appear live so they can learn from each other Or you can review, grade and feedback assignments offline



Collaborative apps for everyday learning activities

(https://spiral.ac)







- collaborative learning
- no. of students: ≤ 100

Suggestions for technique used in class - Questioning: Why, How, Evaluate - Brainstorming / Discussion - Agree-Disagree Statement - Self-Reflection such as 1-minute summary, 1-sentence summary, exit ticket, etc.





Open-ended comprehension questions - Amplify

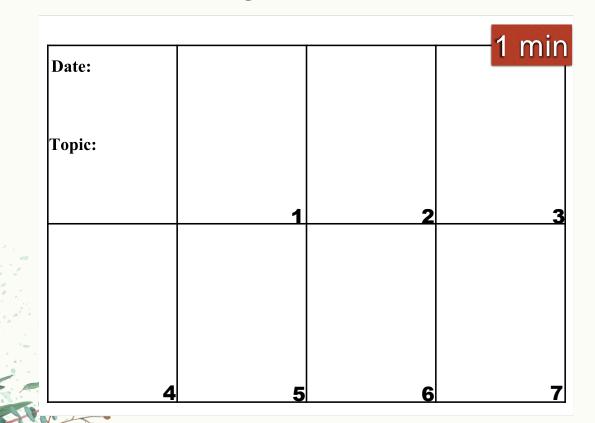
- Clarify
- Summarize/Paraphrase
- Cause/Effect
- Compare/Contrast
- Example
- Definition / Characteristic
- Qualification

(Ref: Meyer, E. & Smith, L.Z. (1987). The practical tutor. New York: Oxford University Press. p.34)





Asynchronous Learning: Self-Reflection / Exit Ticket





Asynchronous Learning: Self-Reflection / Exit Ticket



01

1 minute summary

02

1 sentence summary



03

3-2-1 summary

3 things I learned today2 things I found interesting1 question I still have



04 4Rs (Ryan, 2013)

Reporting & Responding

Relating

Reasoning

Reconstructing



Learning begins with student engagement, **which in turn leads to knowledge and understanding**

-Shulman, 2002 p38



Thank You

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References:

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