

Teaching and Learning

Seminar Series

Simon Cleary: Academic Director

Active Learning Strategies

Active Learning Strategies

- In groups/pairs:
 - Define active learning
 - note some example activities and strategies useful for active learning

Question?

- What is the activity?
- Why?
- Have I given you the definition?

- How am I checking what you understand?

- Engage
- Create an information gap
 - What do you know?
 - What do you know you do not know?
 - What do you not know?
- And – vocalise (in English)

Active Learning Strategies

- What do we mean by active learning?
- Why are we talking about active learning?

Active Learning Strategies

Problem:

- If I lecture – you receive the information
 - I teach
- If I lecture – what will you learn?

in a lecture, students...

- 1. don't pay utmost attention**
- 2. think they know it**
- 3. are not confronted with misconceptions**

Mazur, E. (2012, November 6). *Confessions of a converted lecturer*. SEFCE Autumn Symposium, The University of Edinburgh, Edinburgh, Scotland. Retrieved from <https://mazur.harvard.edu>

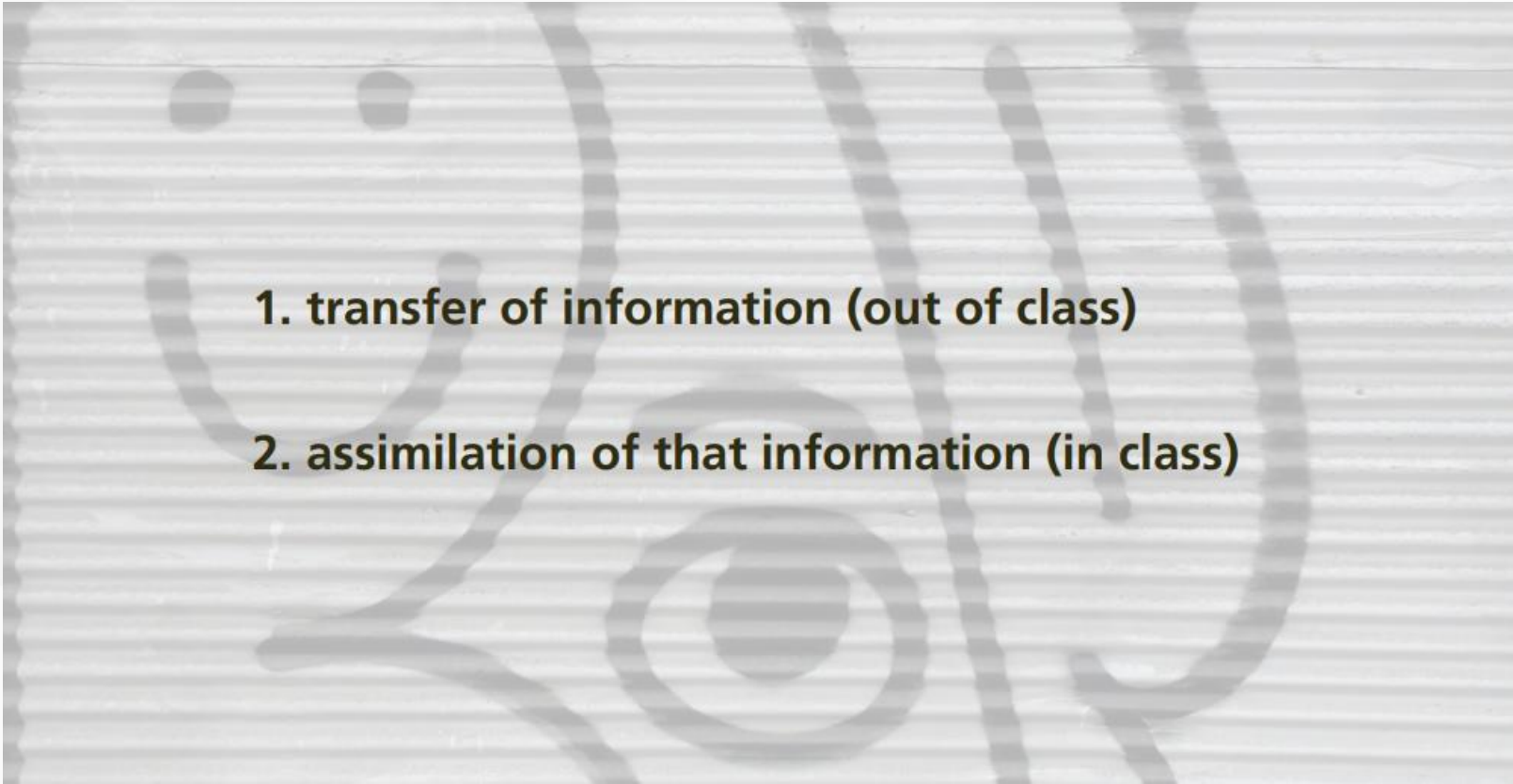
1. transfer of information (in class)
2. assimilation of that information (out of class)

Mazur, E. (2012, November 6). *Confessions of a converted lecturer*. SEFCE Autumn Symposium, The University of Edinburgh, Edinburgh, Scotland. Retrieved from <https://mazur.harvard.edu>



active participation a must!

Mazur, E. (2012, November 6). *Confessions of a converted lecturer*. SEFCE Autumn Symposium, The University of Edinburgh, Edinburgh, Scotland. Retrieved from <https://mazur.harvard.edu>

- 
1. transfer of information (out of class)
 2. assimilation of that information (in class)

Mazur, E. (2012, November 6). *Confessions of a converted lecturer*. SEFCE Autumn Symposium, The University of Edinburgh, Edinburgh, Scotland. Retrieved from <https://mazur.harvard.edu>

Active Learning Strategies

- Try an example of bringing what would be done out of class into a class
- Consider how this would work in practice
- Consider what happens if you tell them to do this at home?

Active Learning Strategies

- Pairs – think about what you would do to make this an active learning task
- How would this affect how you lecture?
- Activity: before, during, after – never passive!

Active Learning Strategies

- Our focus on AI is a fear regarding output: written work
- What about the input: a student's capacity to read (applies to CS as well)
 - as well as to assimilate to use information
- Note:
 - Not talking about reading for transfer of information – transaction- chat GPT
 - Reading to assimilate information – question the terms – own the meaning in their own words

Active Learning Strategies

Learning Outcomes

Consider the importance of active learning

Practice active learning within a case study example

Consider ways to engage students in activities through scaffolding

Discuss assumptions regarding ChatGPT in undermining reading

Be aware of a range of active learning strategies