

# 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)

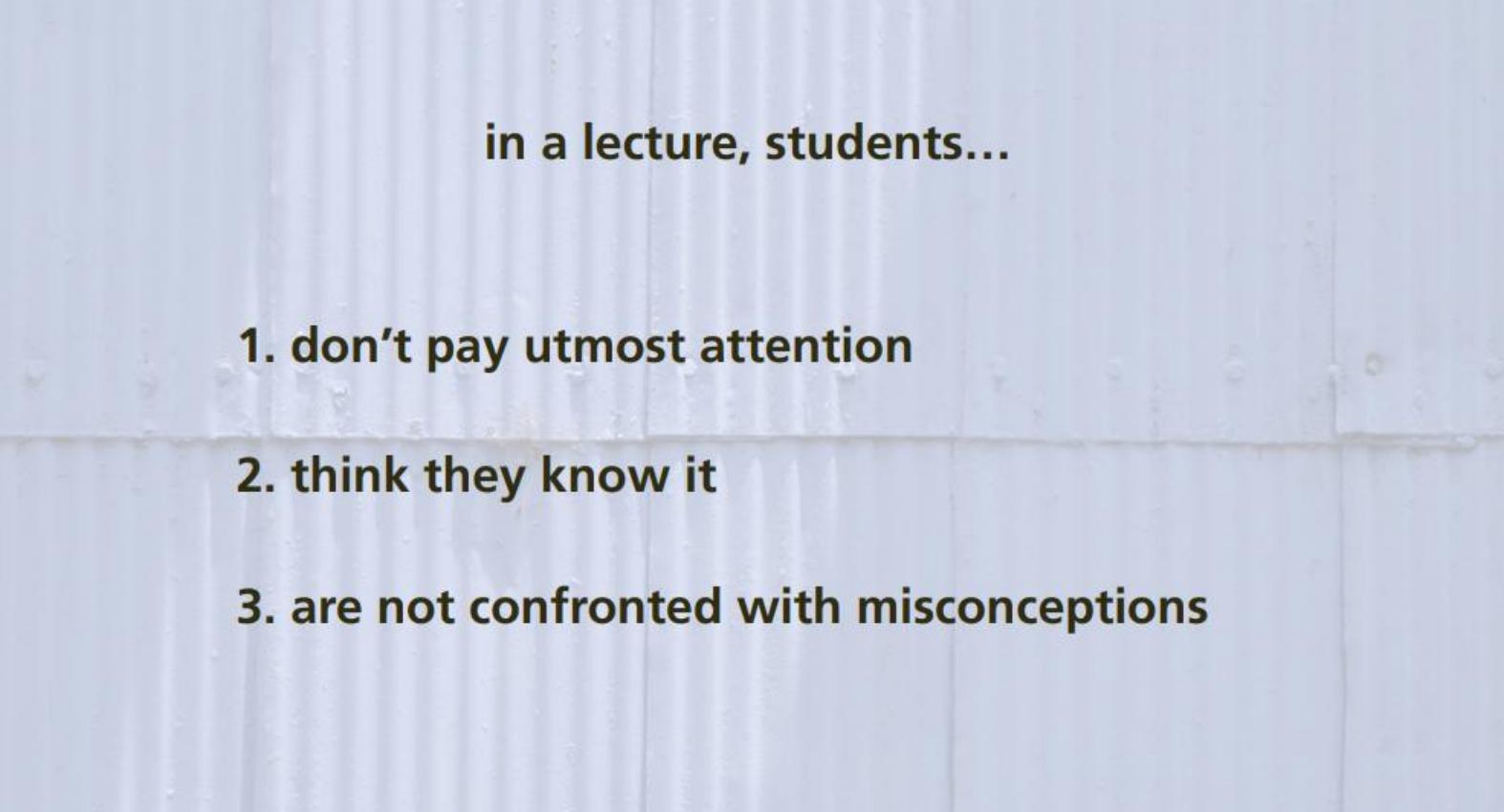
# Active Learning Strategies

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

# Active Learning Strategies

Problem:

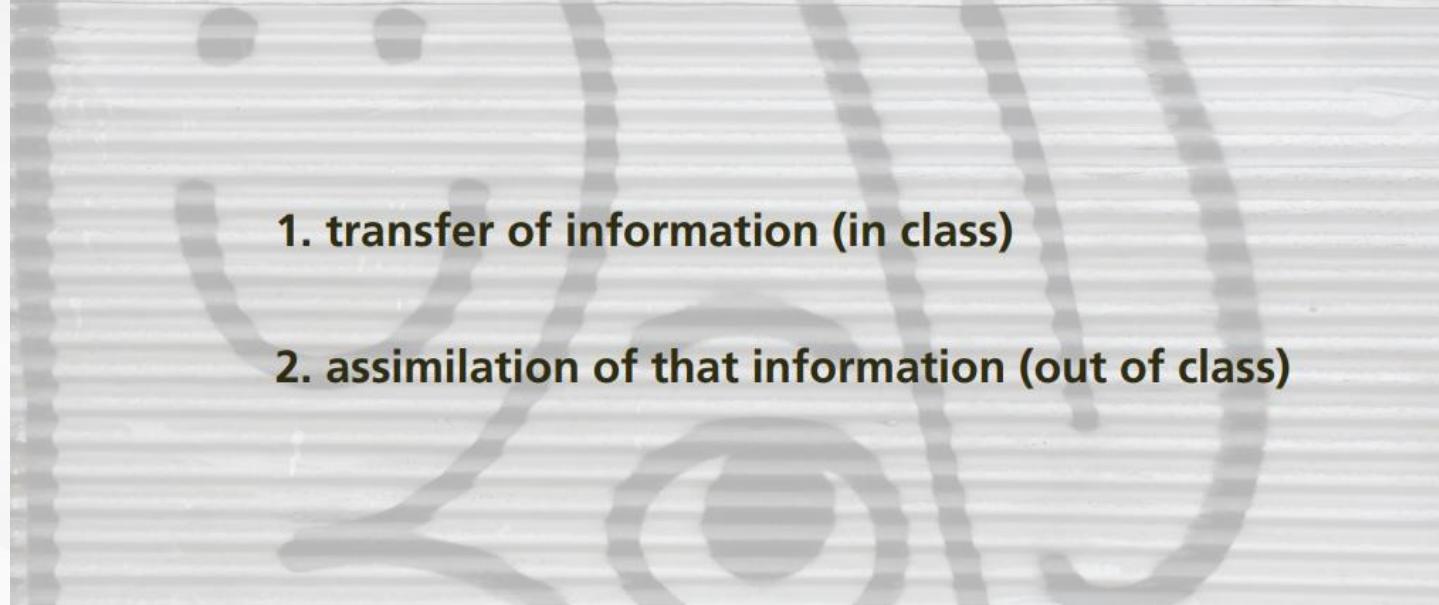
- If I lecture – you receive the information
  - I teach
- If I lecture – what will you learn?



in a lecture, students...

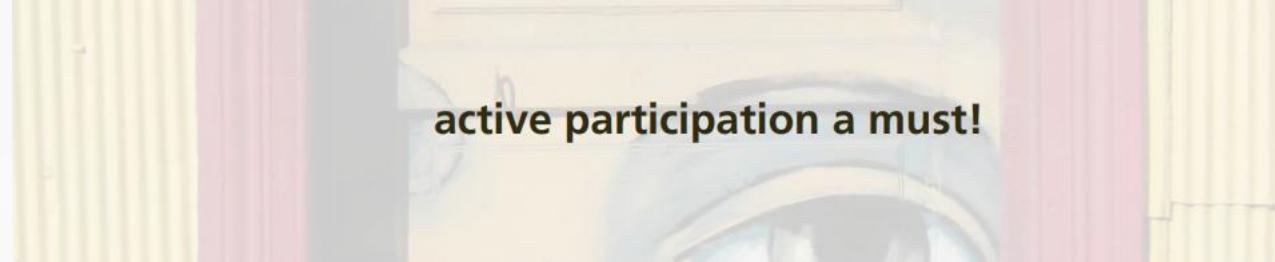
- 1. don't pay utmost attention**
- 2. think they know it**
- 3. are not confronted with misconceptions**

**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>

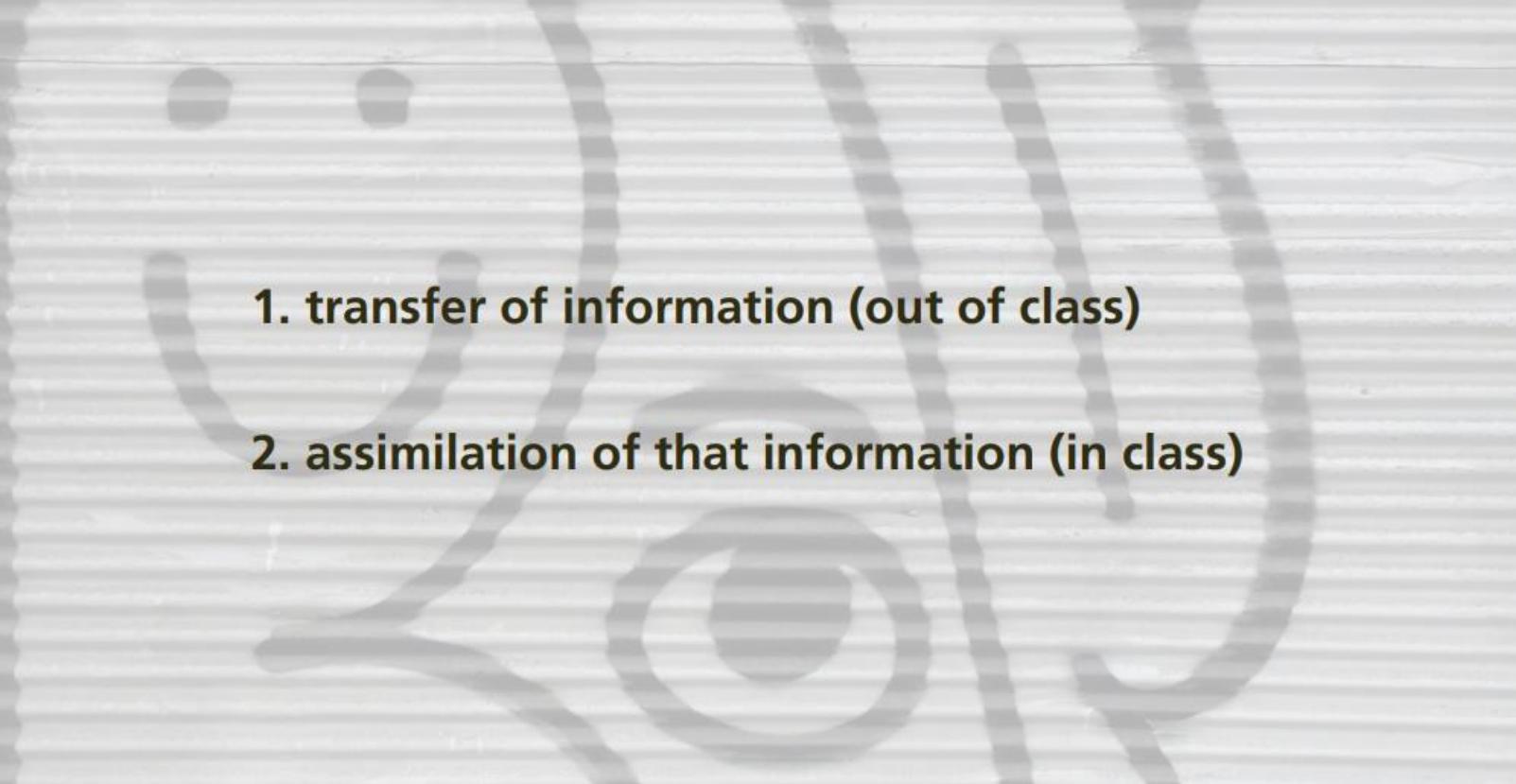


- 1. transfer of information (in class)**
- 2. assimilation of that information (out of class)**

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# 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