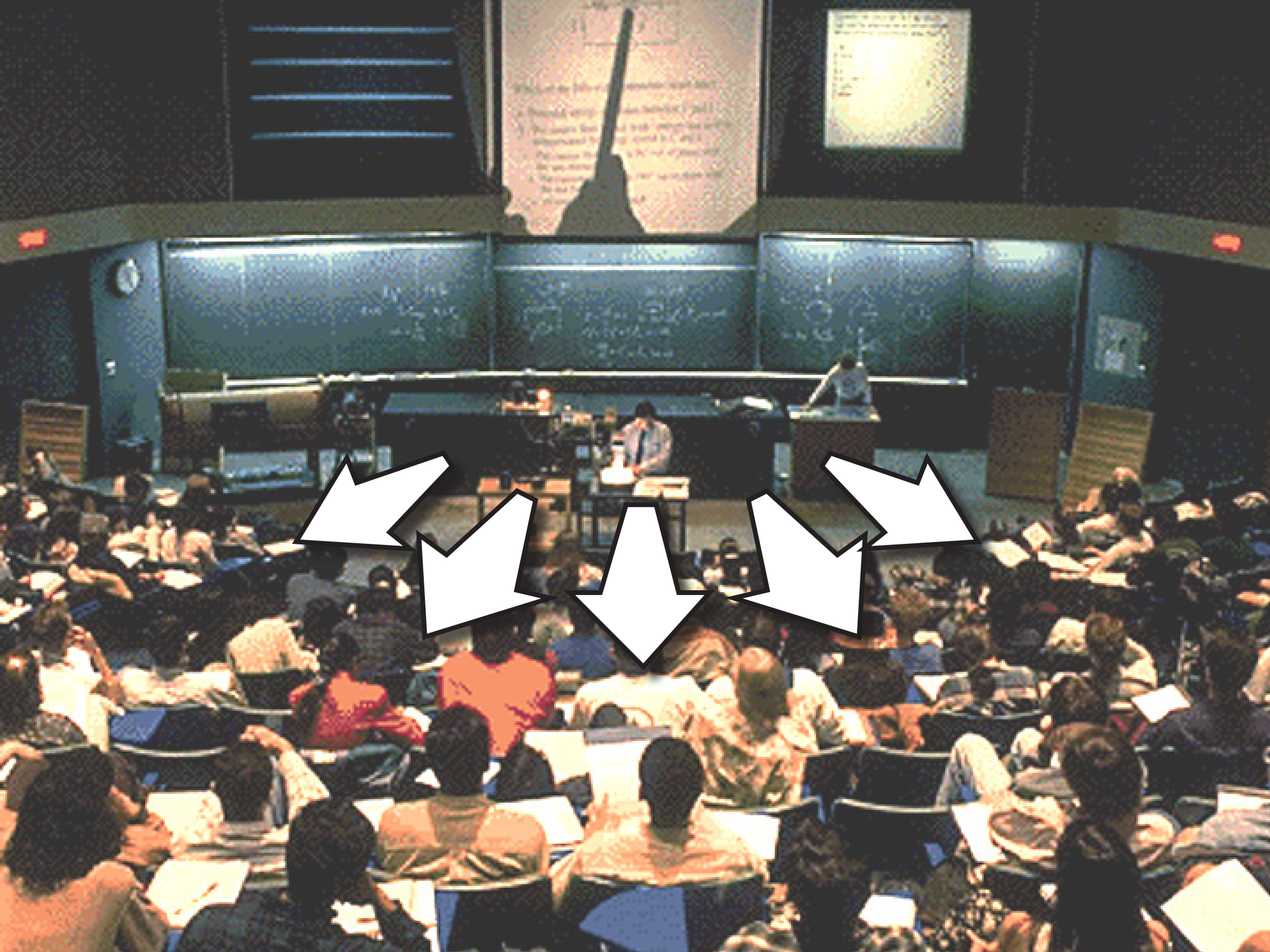
Education, post-coronavirus

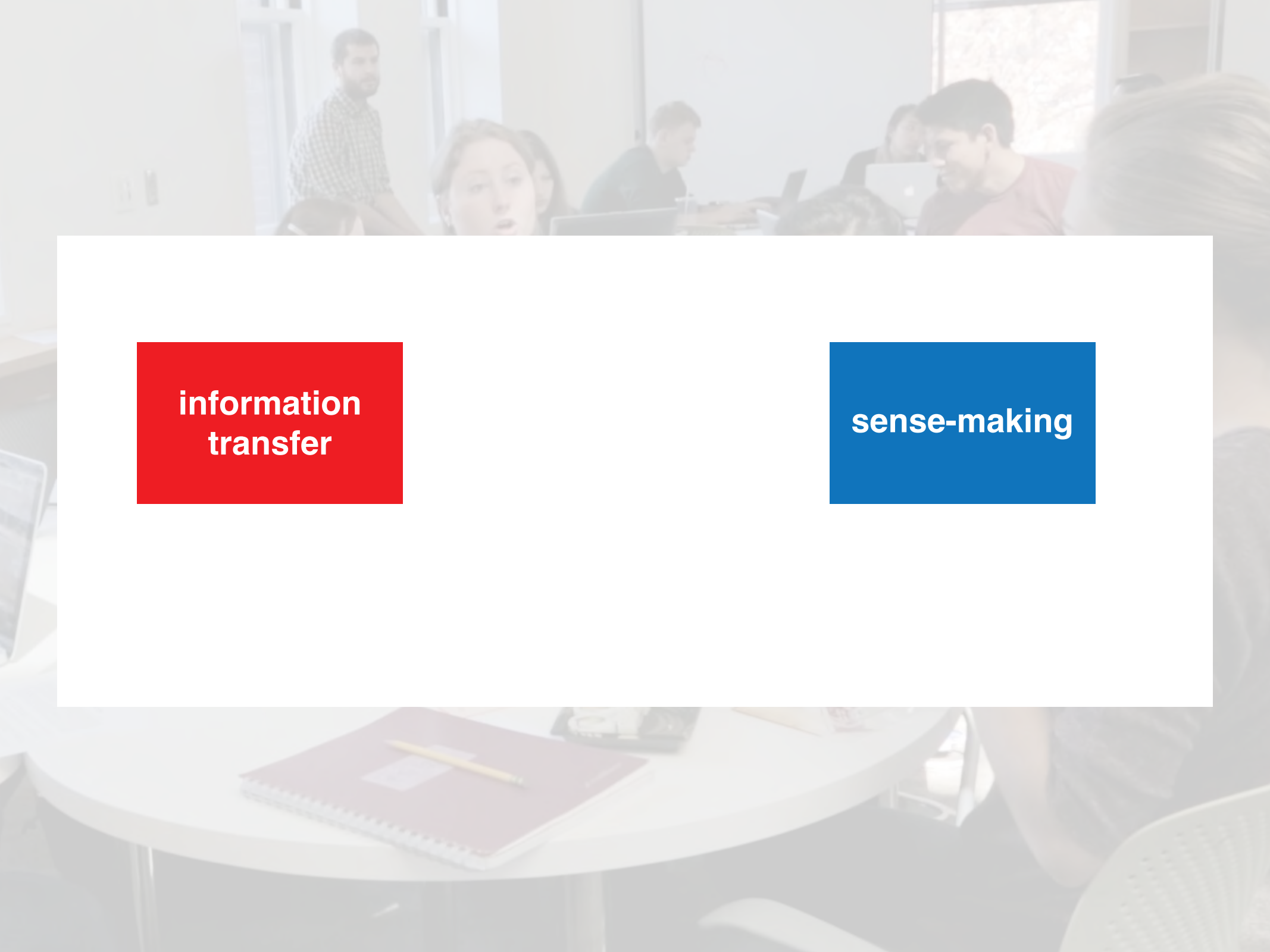
Day of Educational Transformation
KAIST
3 December 2020

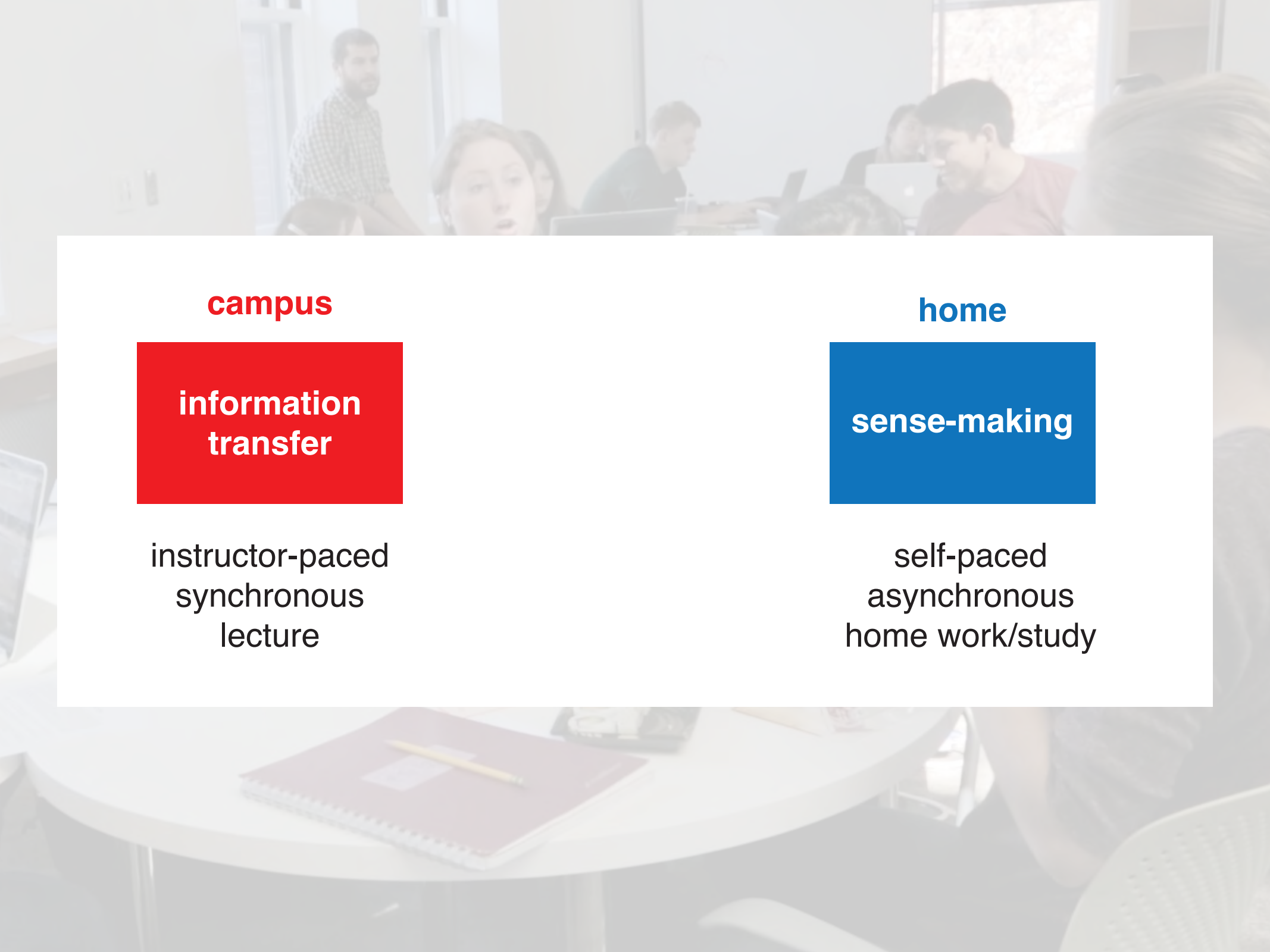
Education, post-coronavirus

Day of Educational Transformation
KAIST
3 December 2020

an illusion. . .




information transfer
sense-making



campus

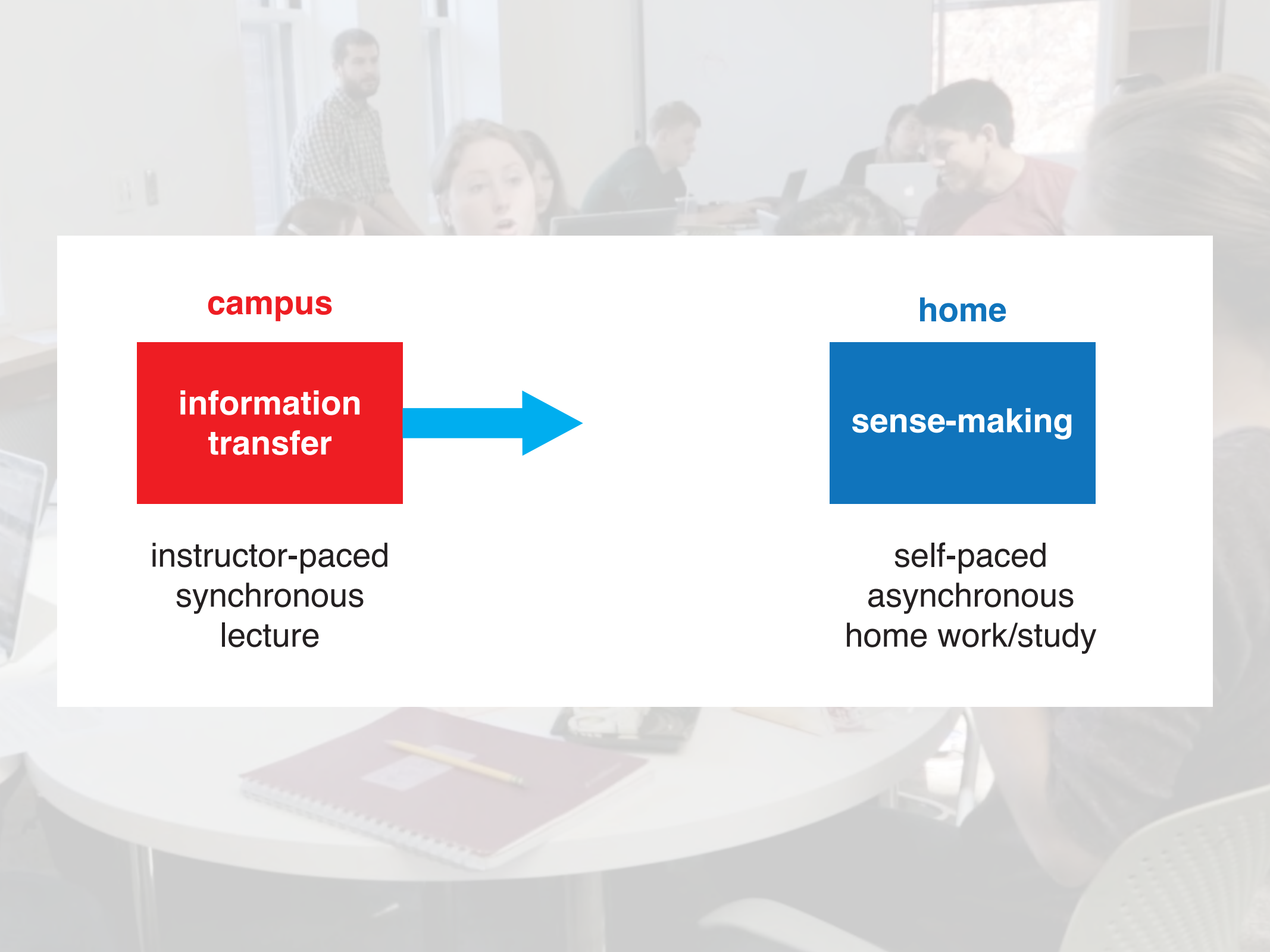
information transfer

instructor-paced
synchronous
lecture

home

sense-making

self-paced
asynchronous
home work/study


campus
information transfer
instructor-paced
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lecture
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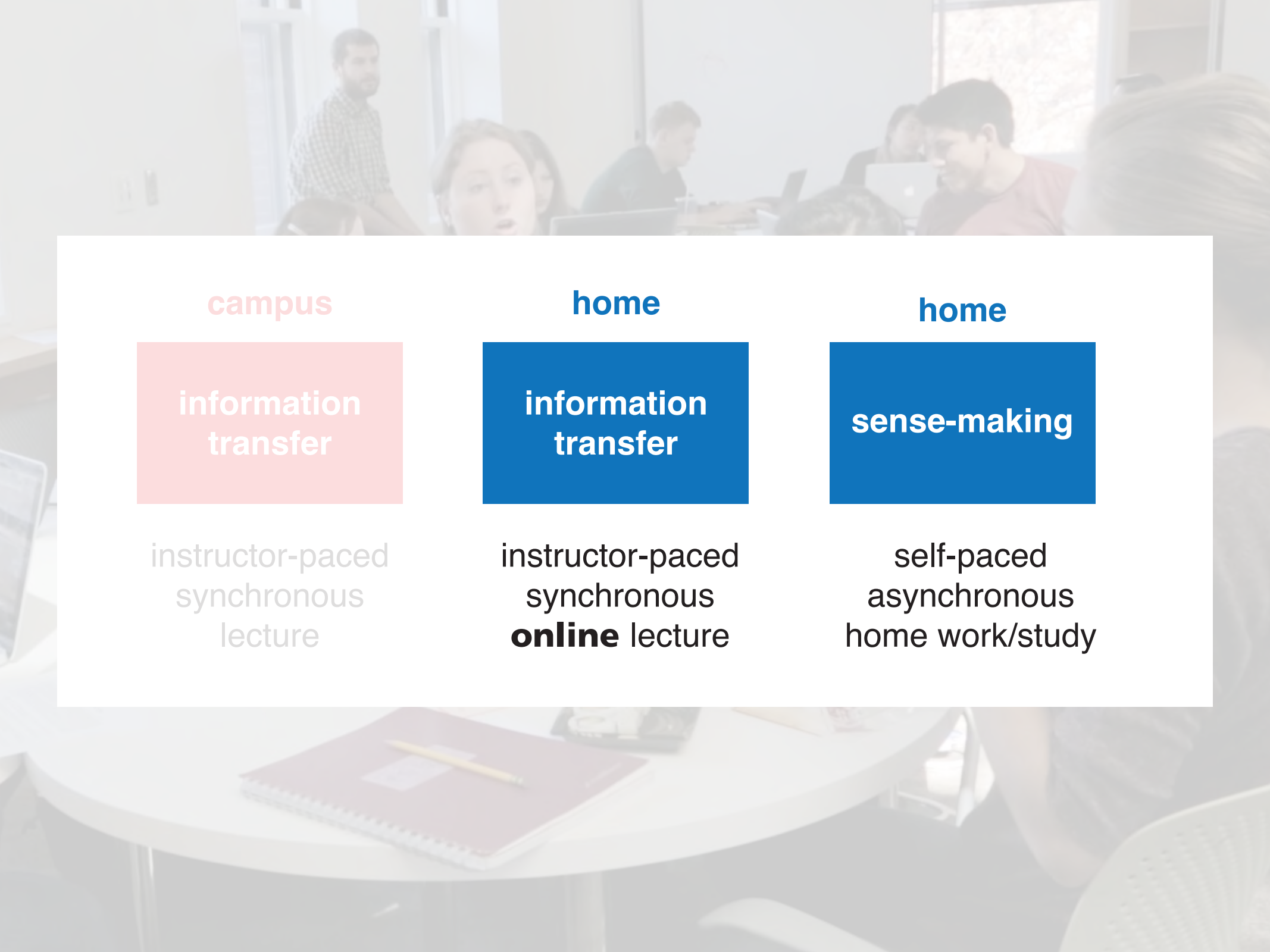
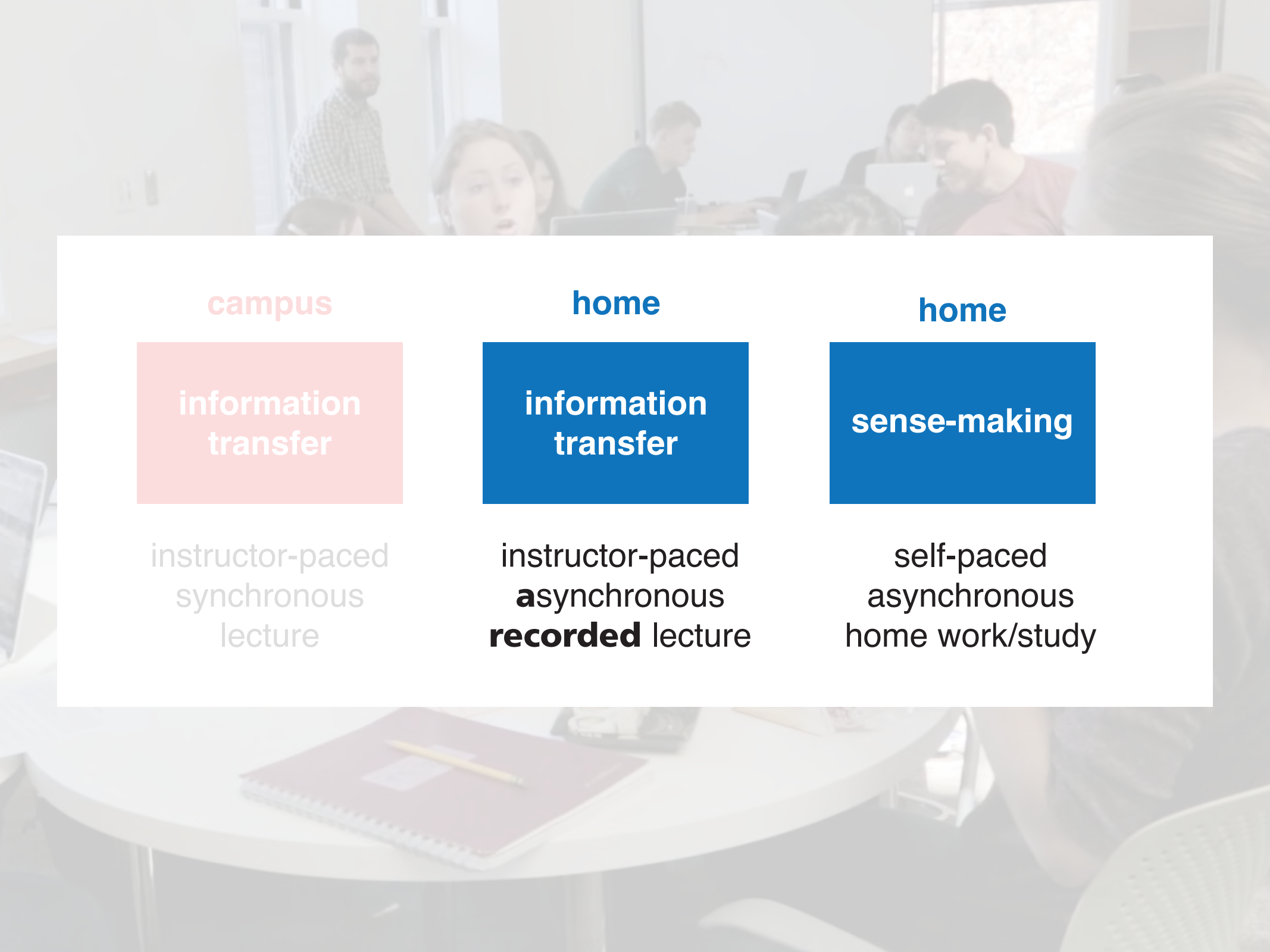
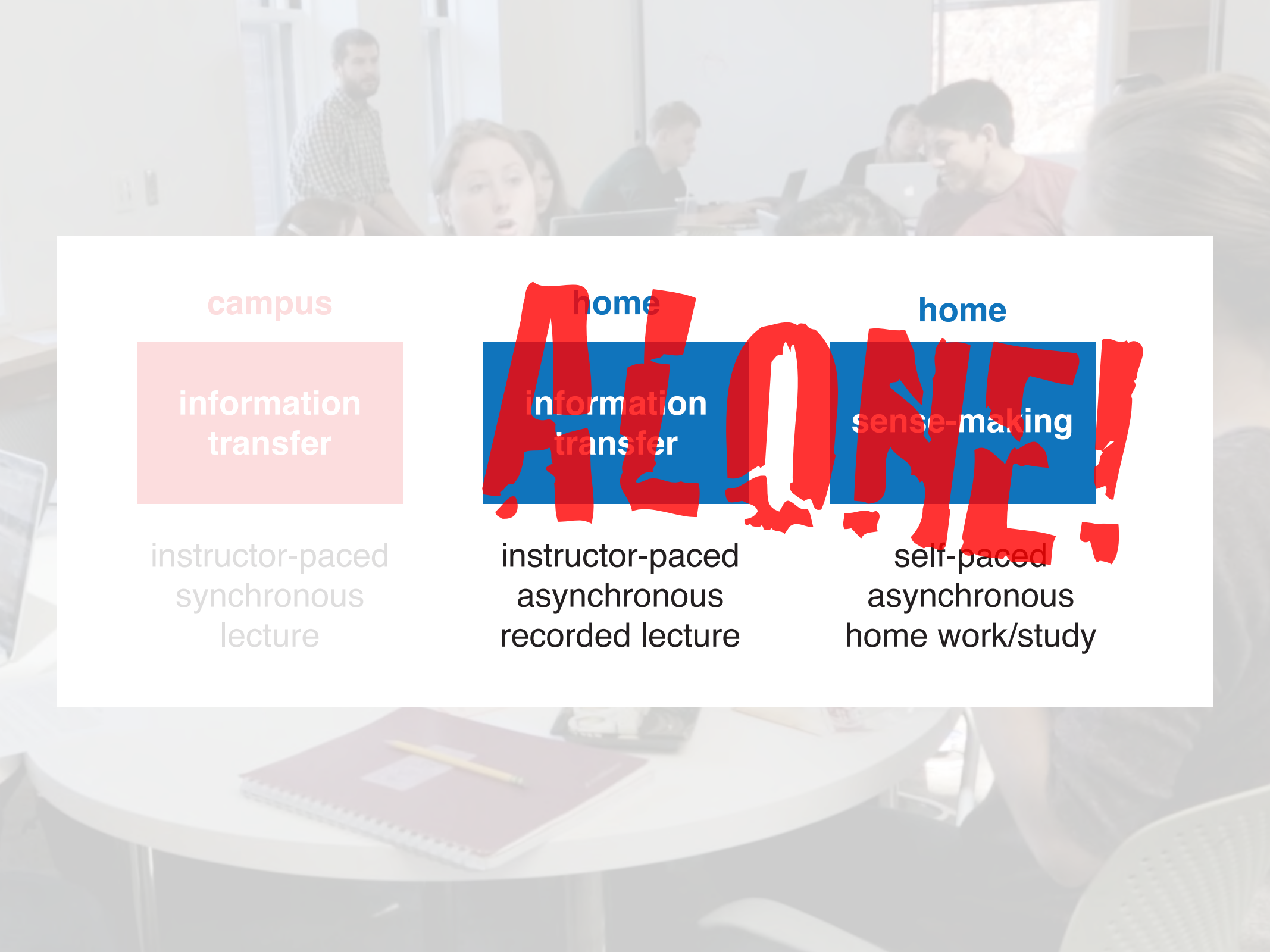
home work/study



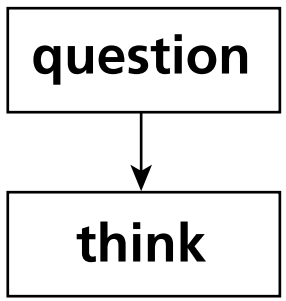
campus	home	home
information transfer	**information transfer**	**sense-making**
instructor-paced synchronous lecture	instructor-paced synchronous **online** lecture	self-paced asynchronous home work/study

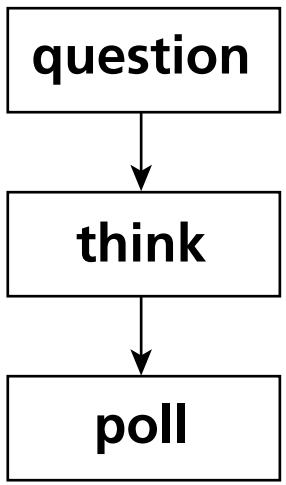


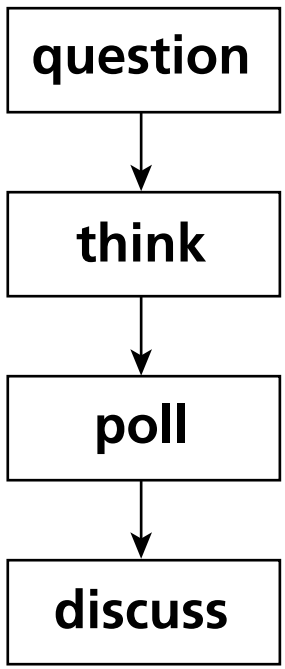
campus	home	home
information transfer	**information transfer**	**sense-making**
instructor-paced synchronous lecture	instructor-paced **a**synchronous **recorded** lecture	self-paced asynchronous home work/study

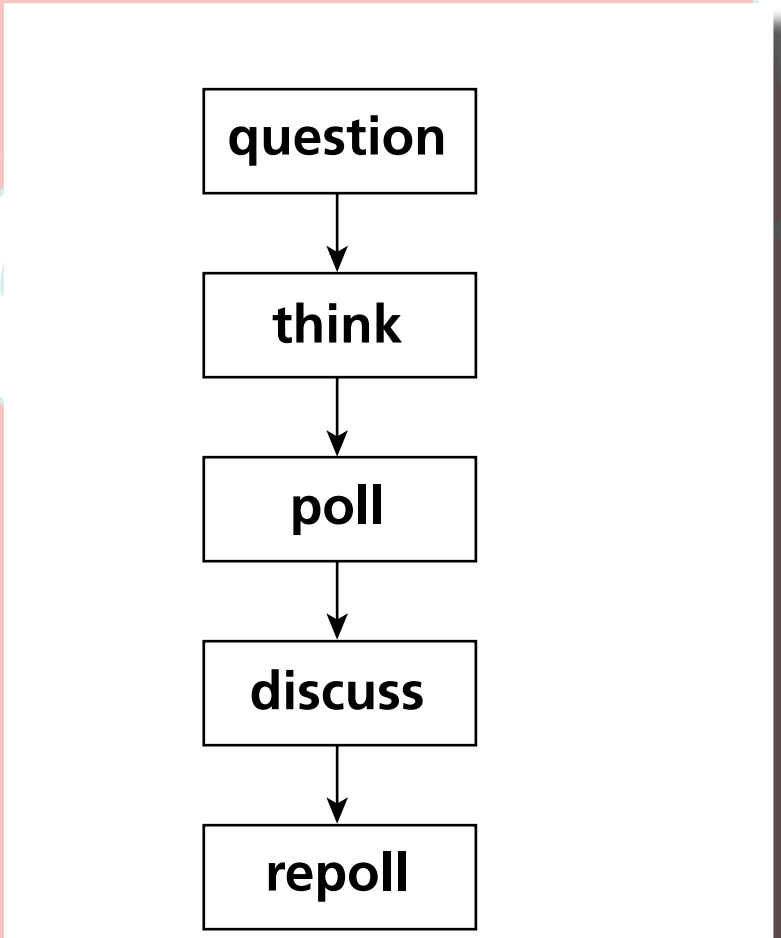

campus
home
home
information transfer
information transfer
sense-making
ALONE!
instructor-paced synchronous lecture
instructor-paced asynchronous recorded lecture
self-paced asynchronous home work/study

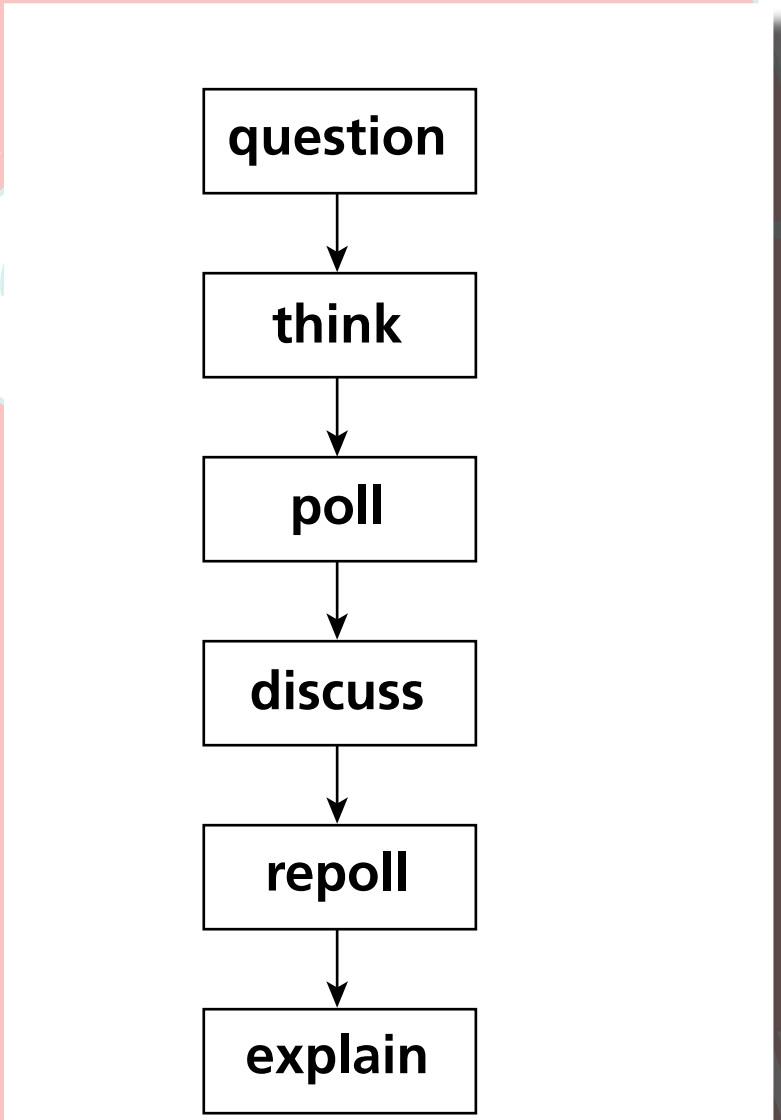
question

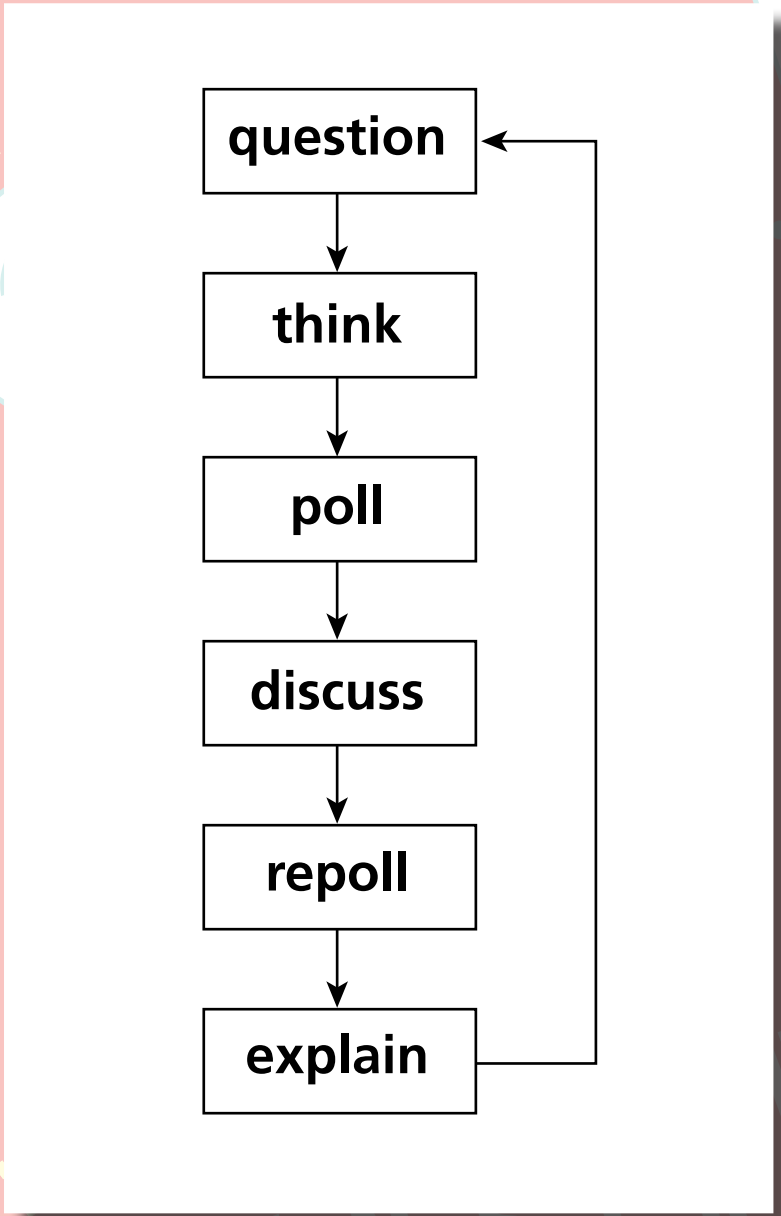

question
think

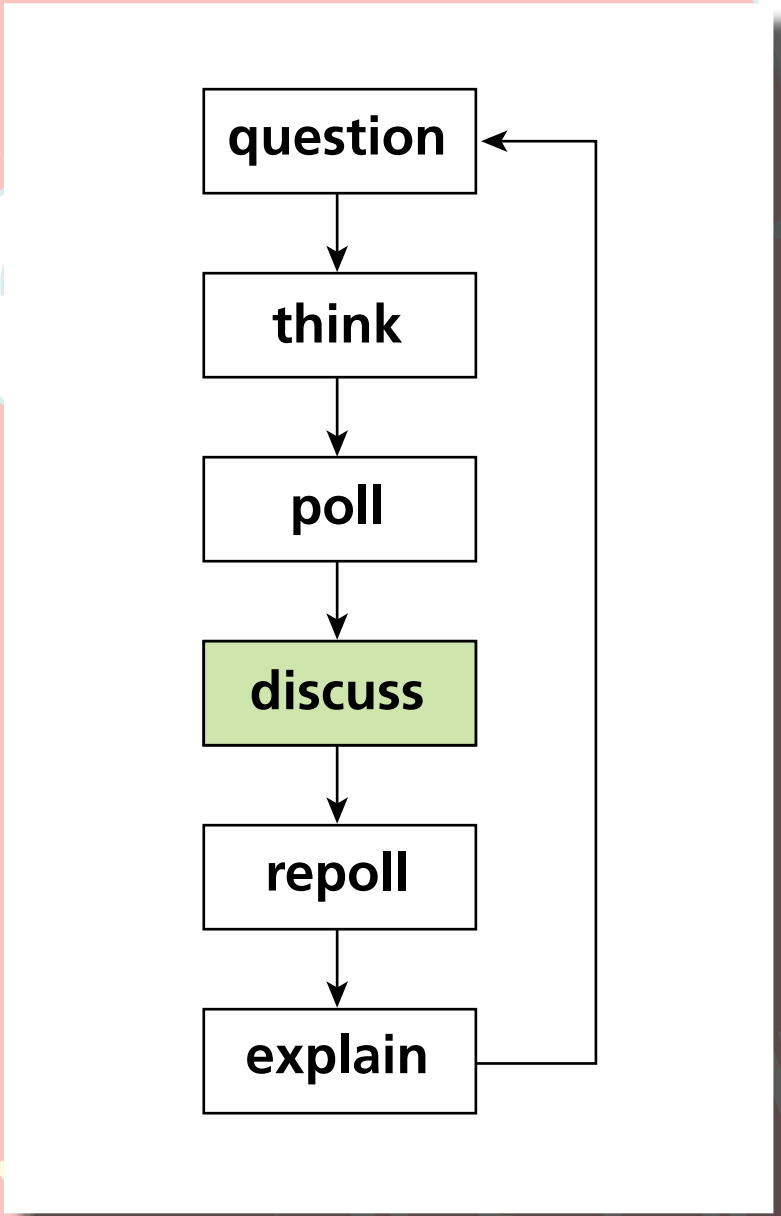

question
think
poll


question
think
poll
discuss

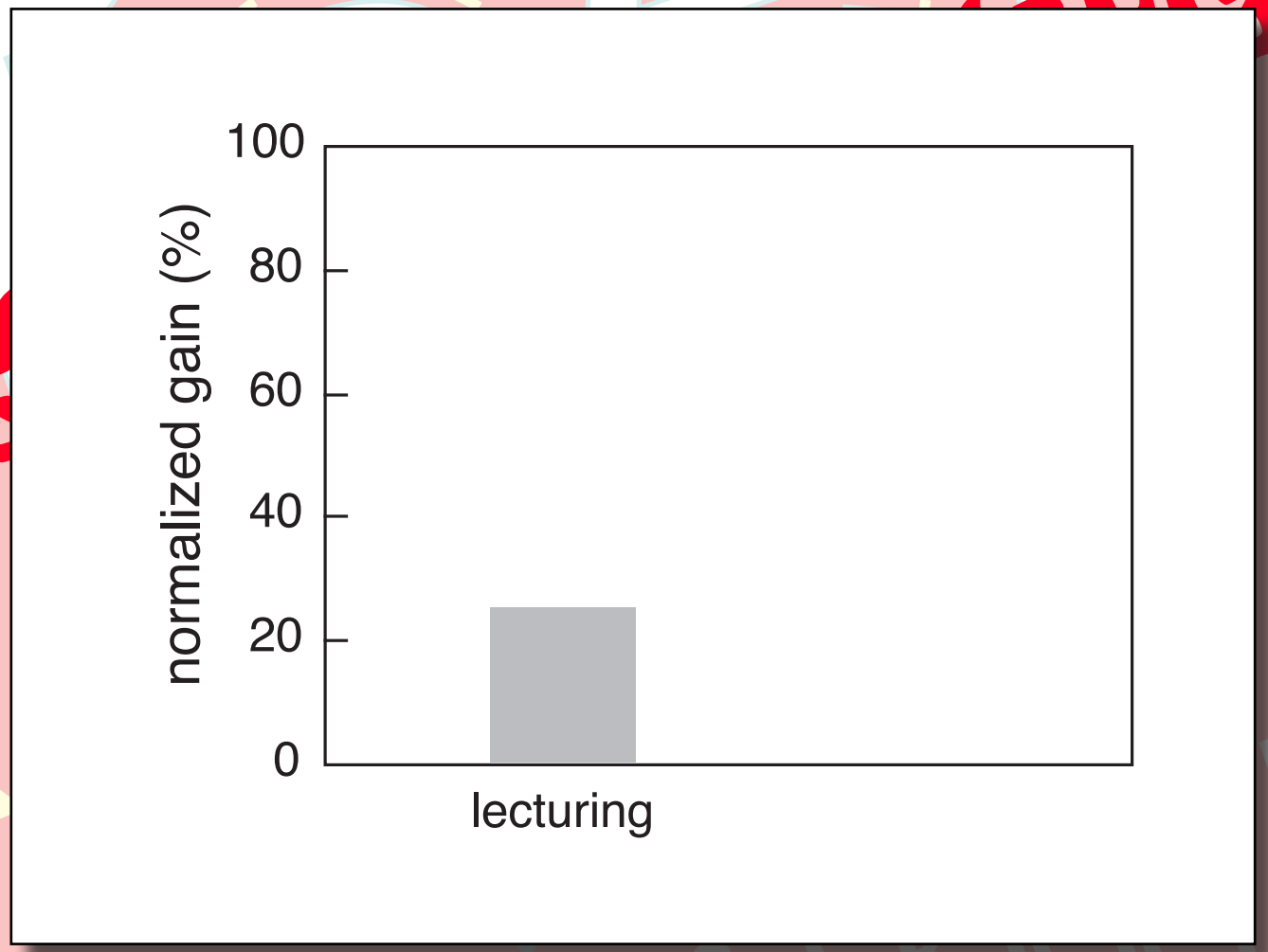

question
think
poll
discuss
repoll

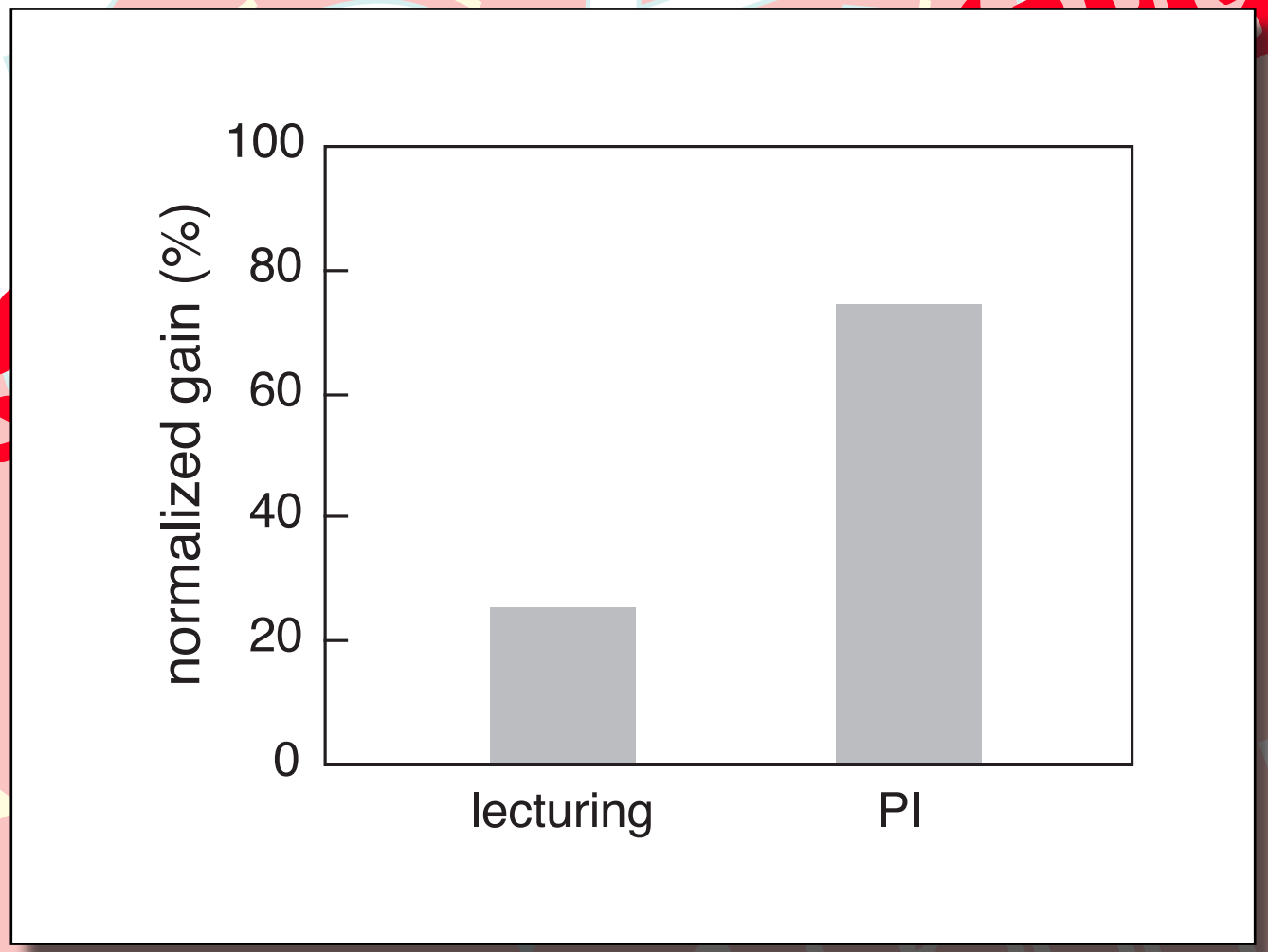

question
think
poll
discuss
repoll
explain


question
think
poll
discuss
repoll
explain

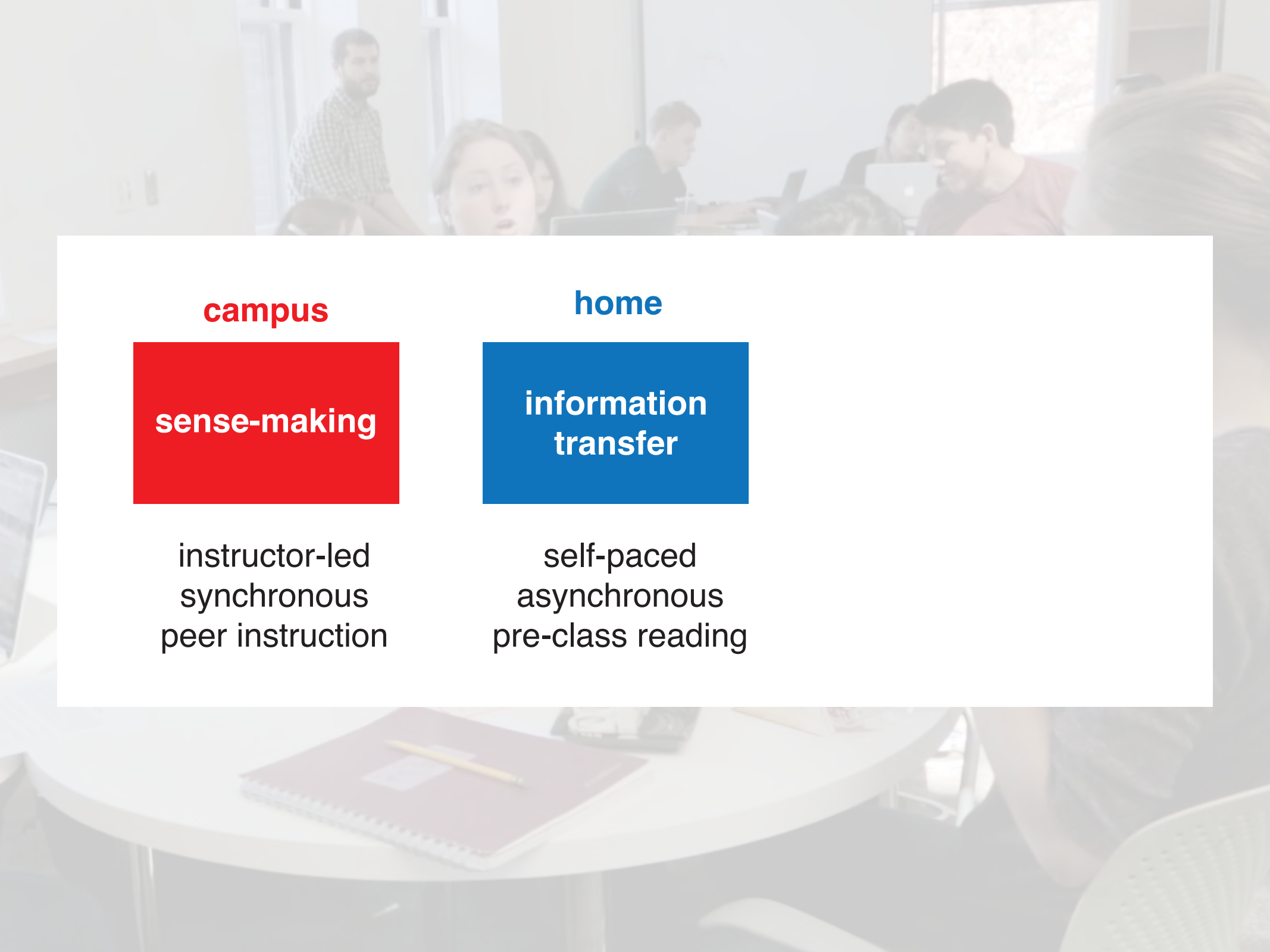

question
think
poll
discuss
repoll
explain

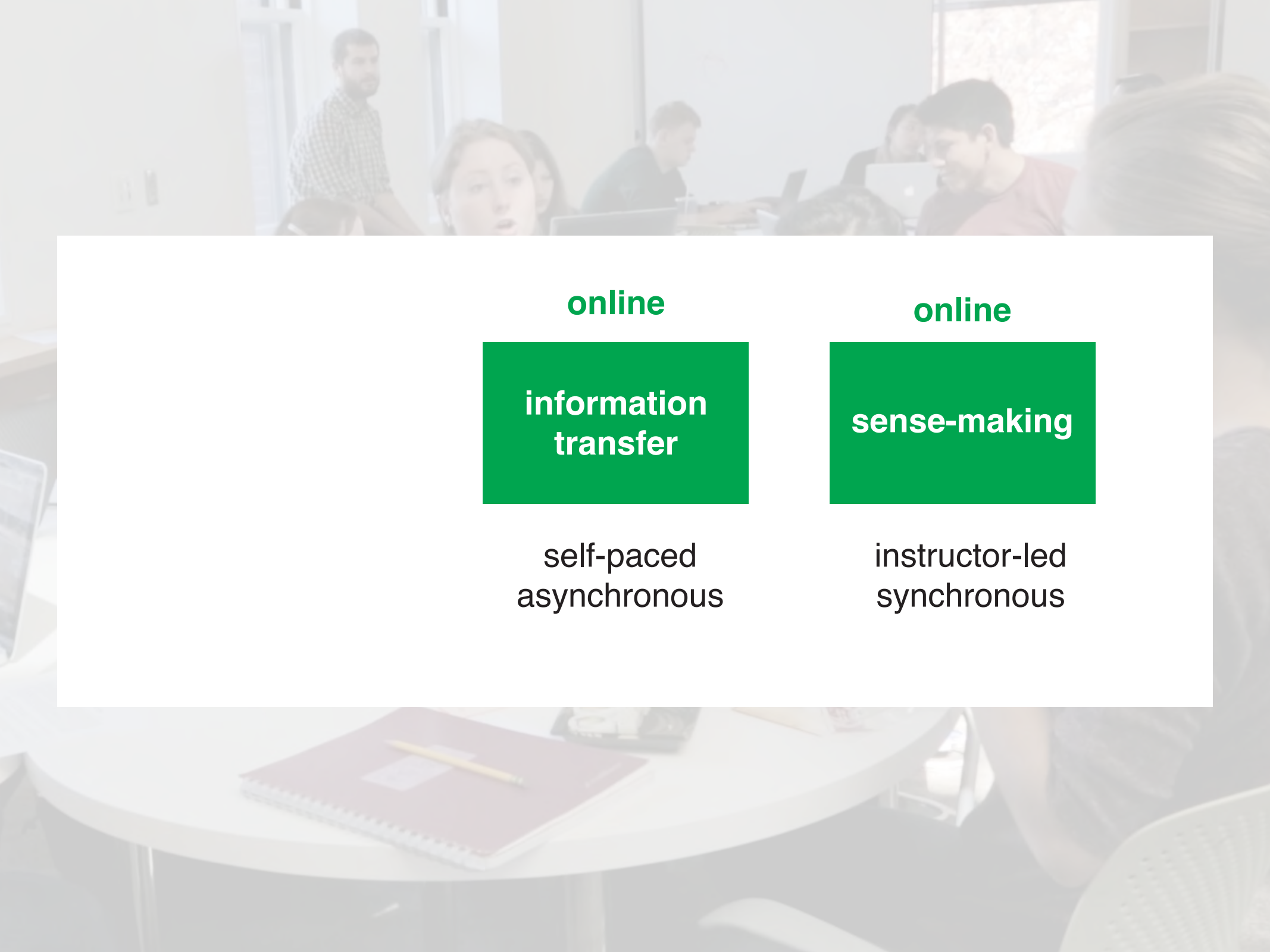
Peer
Higher learning gains
INSTRUCTION


100
80
60
40
20
0
normalized gain (%)
lecturing


normalized gain (%)
100
80
60
40
20
0
lecturing
PI

Peer
Higher learning gains
Better retention
INSTRUCTION


campus
home
sense-making
information transfer
instructor-led
synchronous
peer instruction
self-paced
asynchronous
pre-class reading



	online	online
	information transfer	**sense-making**
	self-paced asynchronous	instructor-led synchronous

online
online
information transfer
sense-making
interactive
self-paced
asynchronous
instructor-led
synchronous

Improving education

synchronous asynchronous

Improving education

synchronous asynchronous

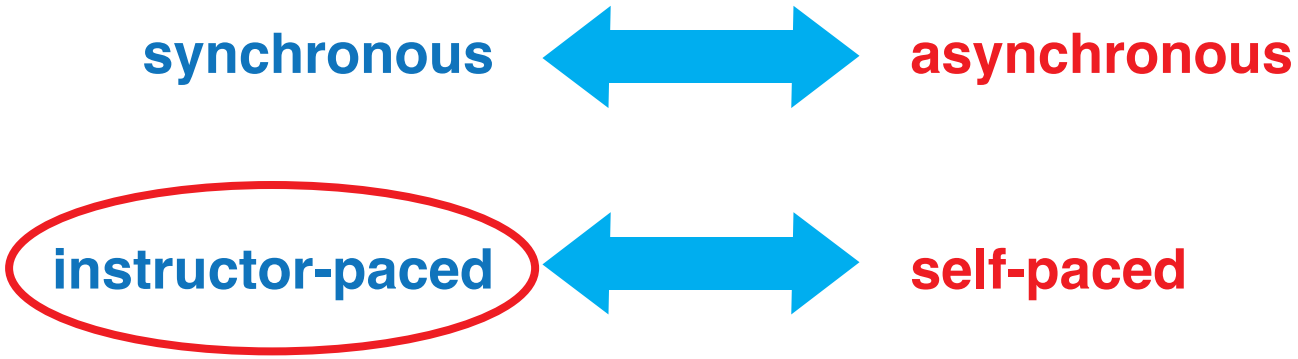
everybody together
at the same *time*

Improving education

synchronous asynchronous

instructor-paced self-paced

Improving education



everybody together
at the same *pace*

Improving education

lecture

synchronous ⟷ asynchronous

instructor-paced ⟷ self-paced

Improving education

recorded lecture

synchronous ⟷ **asynchronous**

instructor-paced ⟷ self-paced

Improving education

lab

synchronous ⟷ asynchronous

instructor-paced ⟷ self-paced

Improving education

homework/study

synchronous ⟷ **asynchronous**

instructor-paced ⟷ **self-paced**

Improving education

synchronous → asynchronous

instructor-paced ↔ self-paced

Improving education

synchronous → asynchronous

instructor-paced → self-paced

Improving education

synchronous → asynchronous

instructor-paced → self-paced

more time to help students where it really matters!

for a copy of this presentation:

mazur.harvard.edu

resource sheet: bit.ly/fliponline

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