Setting Learning Free: Lessons from Pandemic Teaching



Nex Alama Niurlaina Distan



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1 Justin Comers

Setting Learning Free: Lessons from Pandemic Teaching











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Yuval Noah Harari: the world after coronavirus

This storm will pass. But the choices we make now could change our lives for years to come

Yuval Noah Harari MARCH 20 2020

Humankind is now facing a global crisis. Perhaps the biggest crisis of our The decisions people and governments take in the next few weeks

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to

The Results Are In for Remote Learning: It Didn't Work The pandemic forced schools into a crash course in online education. Problems piled up quickly. 'I find it hect

Lucia Curatolo-Boylan supervises the online schooling of her four children, ages 4 to 10, in Staten Island, N.Y. KEVIN HAGEN FOR THE WALL STREET JOURNAL

II an Hawkins



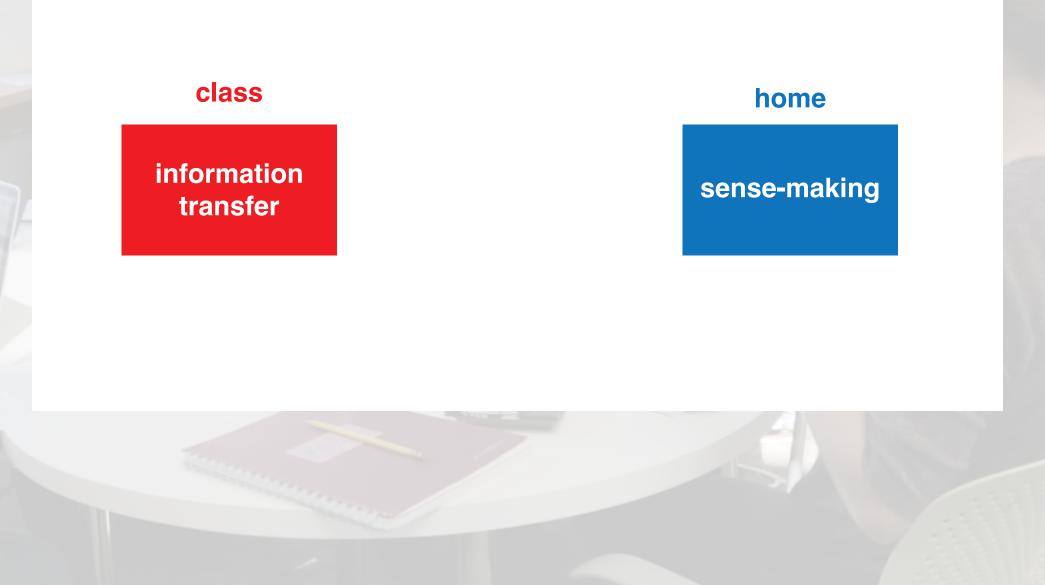
The reason? Bad pedagogy!



information transfer

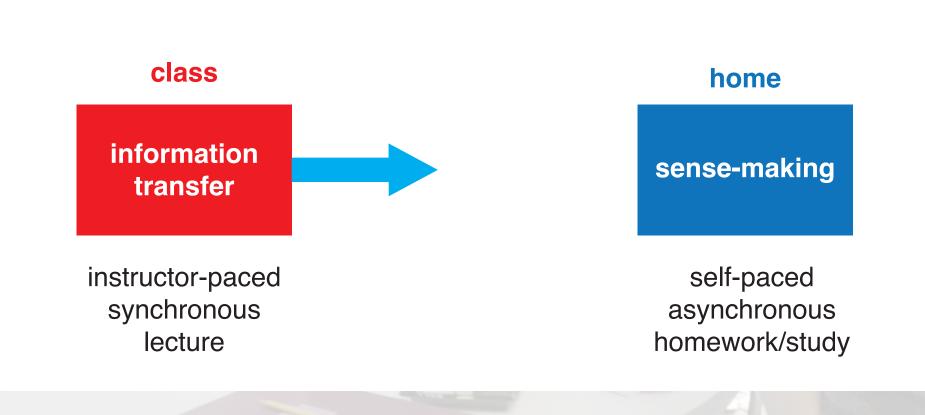
sense-making

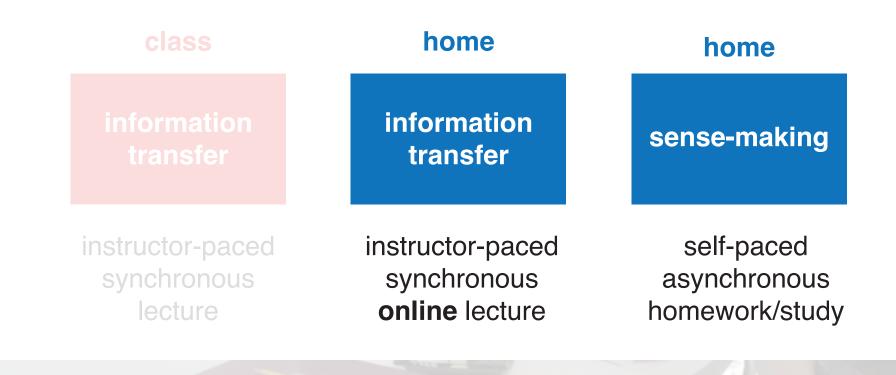
Traditional model

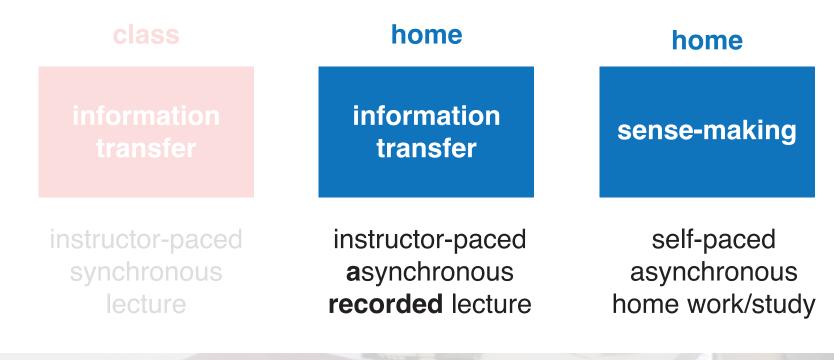


Traditional model

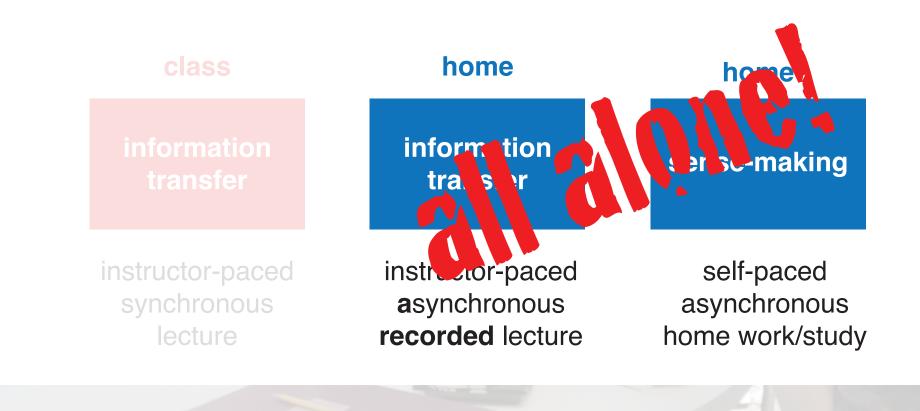






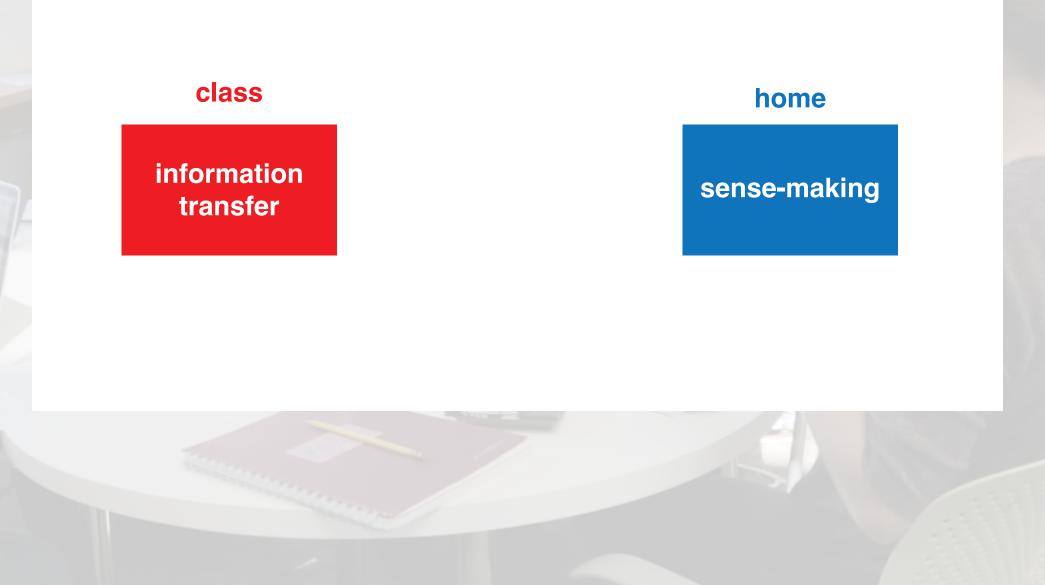




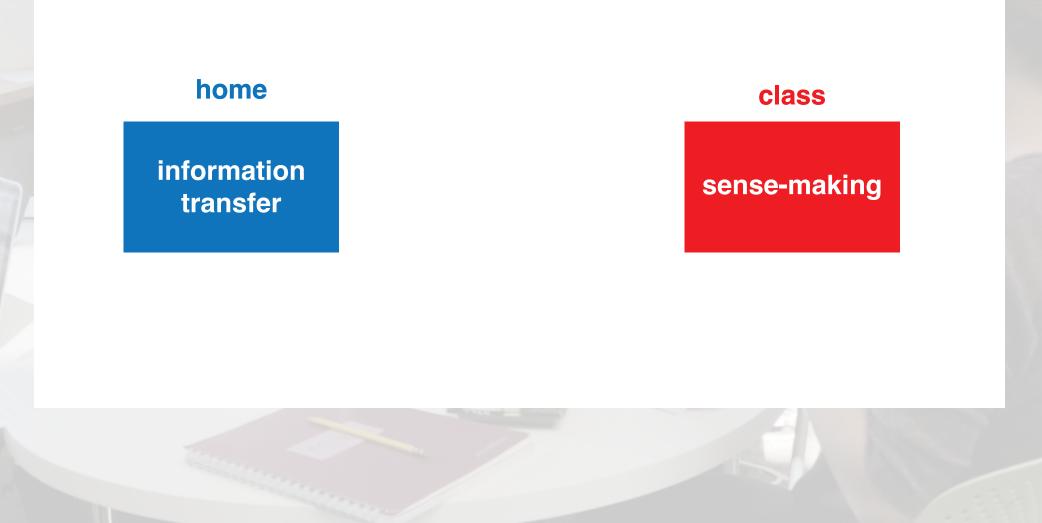


Small wonder!

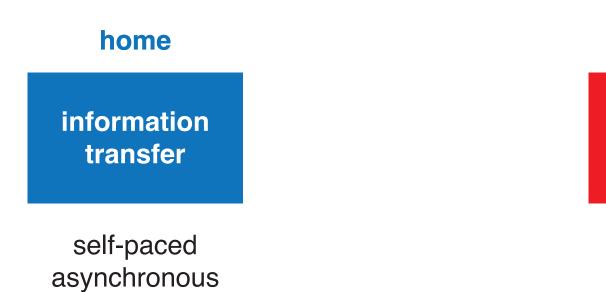
Traditional model



Flipped model



Flipped model





sense-making

instructor-led synchronous **& interactive**



Flipped model



information transfer

self-paced asynchronous & interactive

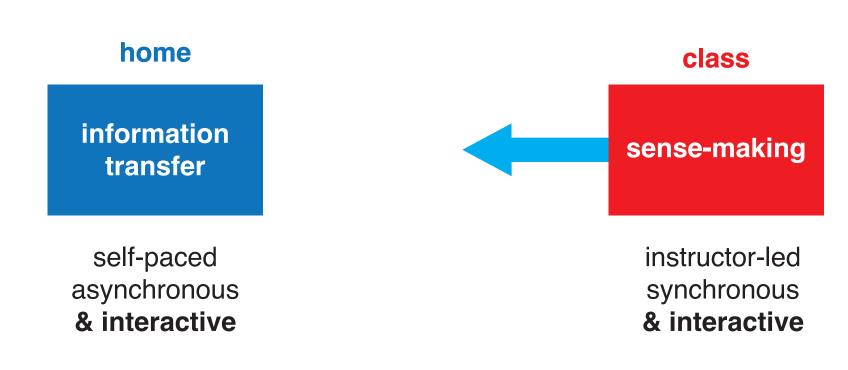


sense-making

instructor-led synchronous & interactive

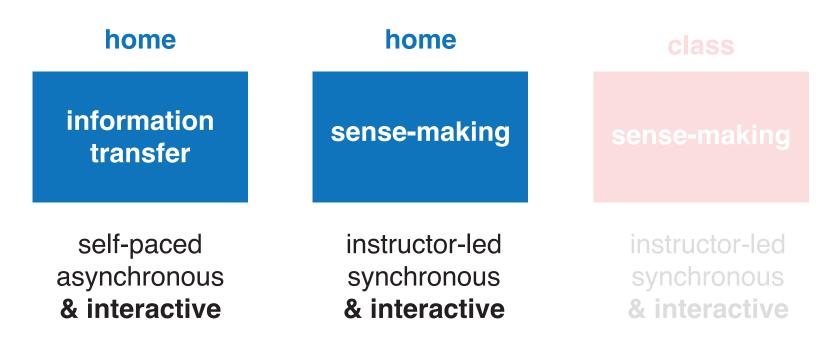


Flipped model online



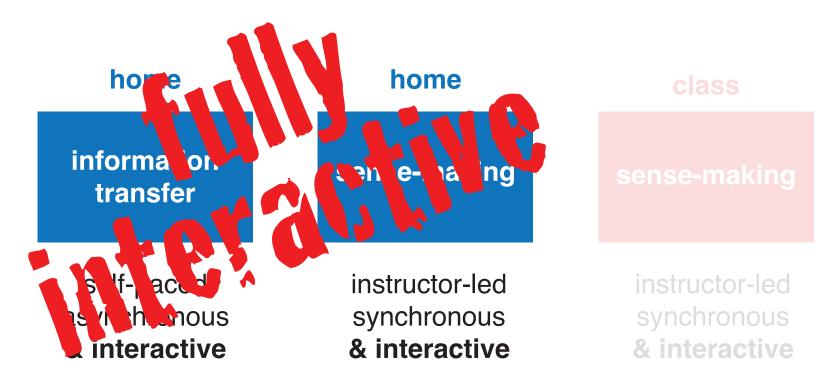


Flipped model online





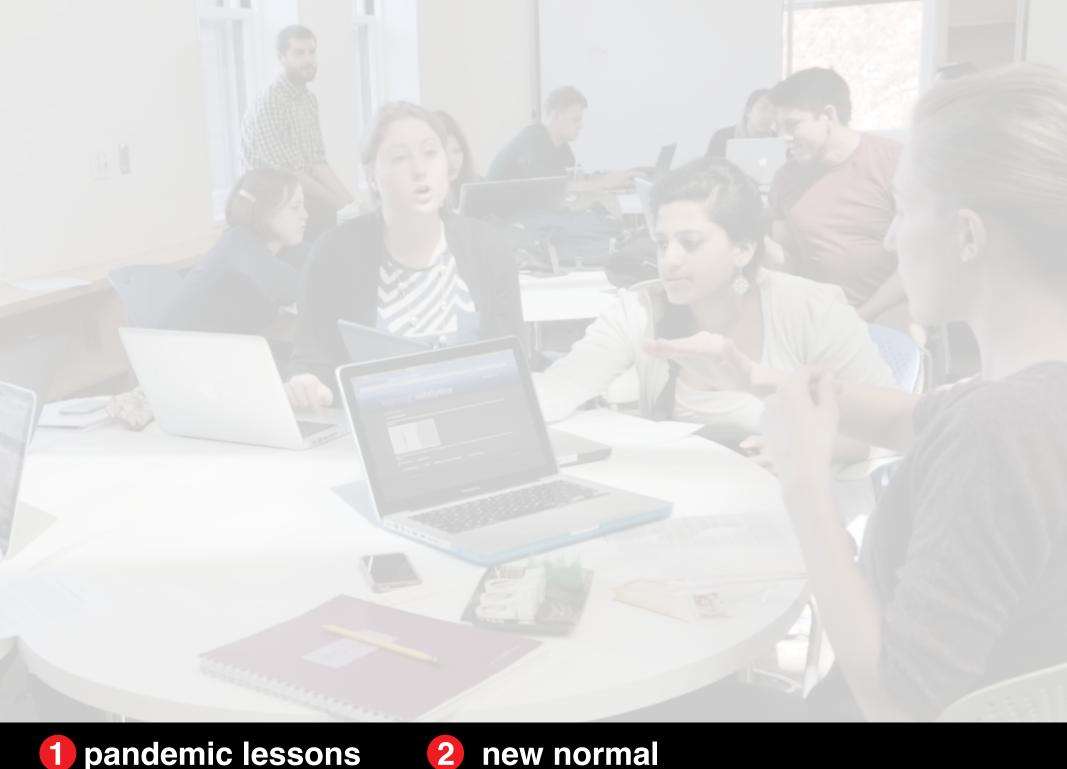
Flipped model online







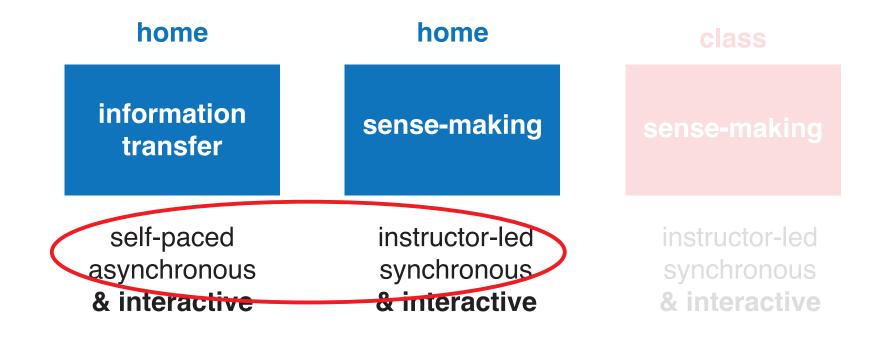








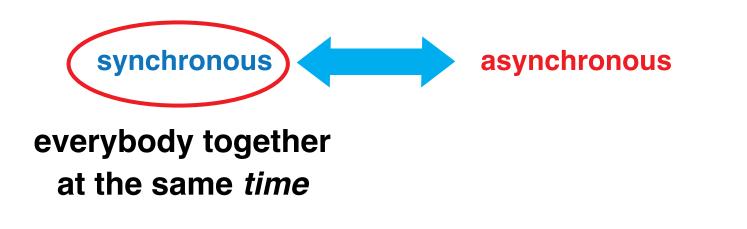




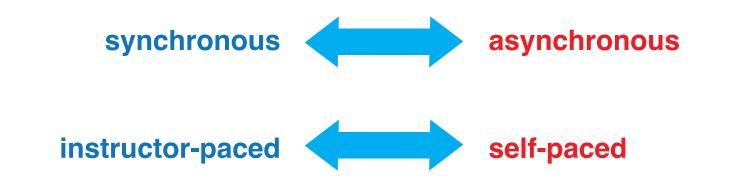




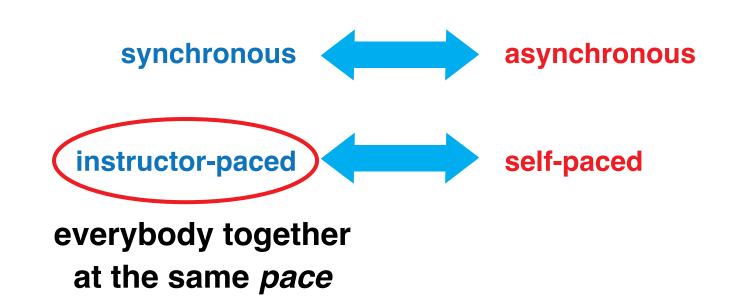




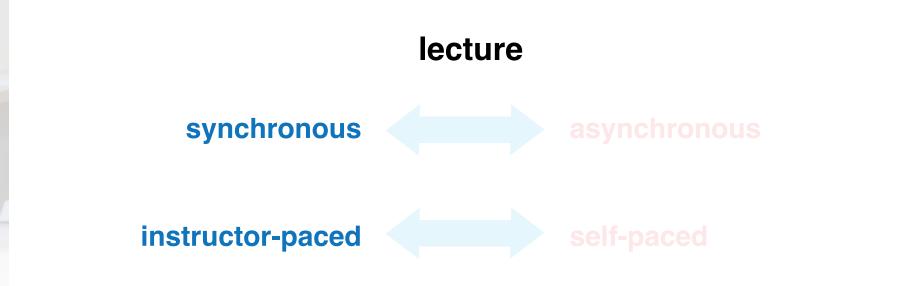




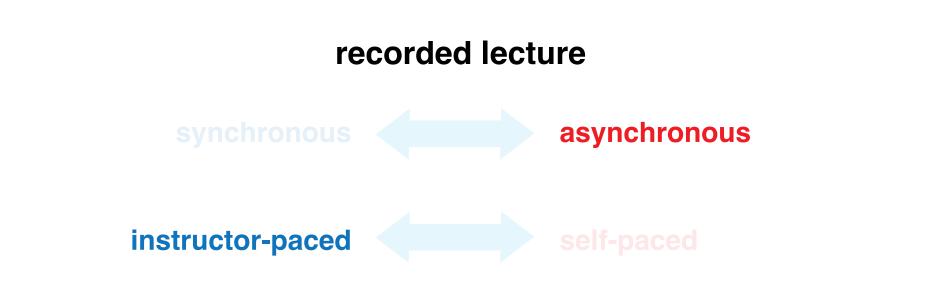




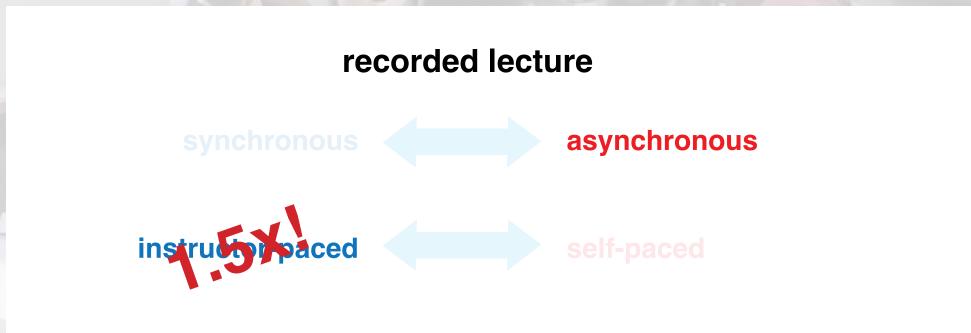




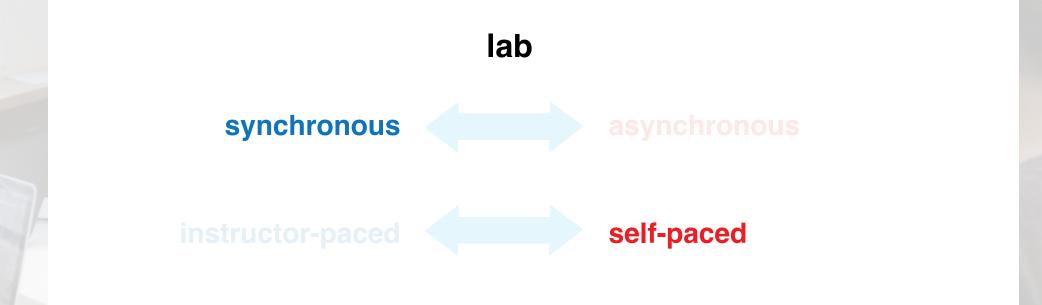






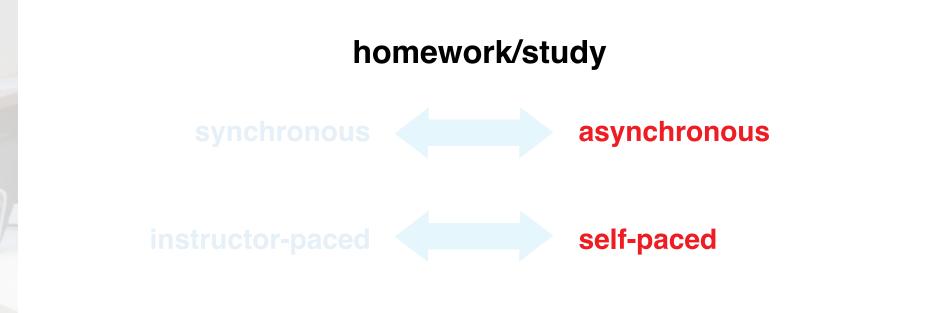




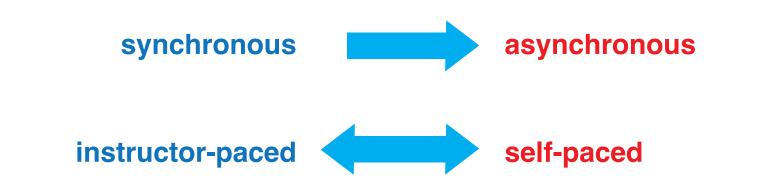




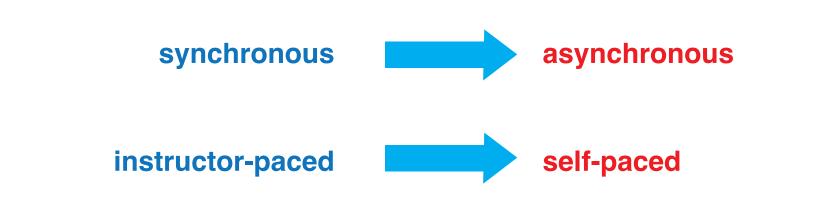




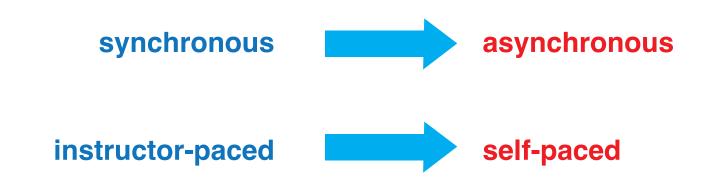












more time to help students

where it really matters!

Try this exercise!



synchronous

collaborative work



synchronous

collaborative work

- not all students engaged
- inefficient team work
- poor use of staff time
- no quality control

synchronous

collaborative work

- not all students engaged
- inefficient team work
- poor use of staff time
- no quality control

asynchronous

individual work



synchronous

collaborative work

- not all students engaged
- inefficient team work
- poor use of staff time
- no quality control



synchronous

collaborative work

- not all students engaged
- inefficient team work
- poor use of staff time
- no quality control



synchronous

collaborative work

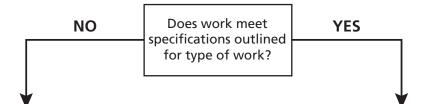
- not all students engaged
- inefficient team work
- poor use of staff time
- no quality control



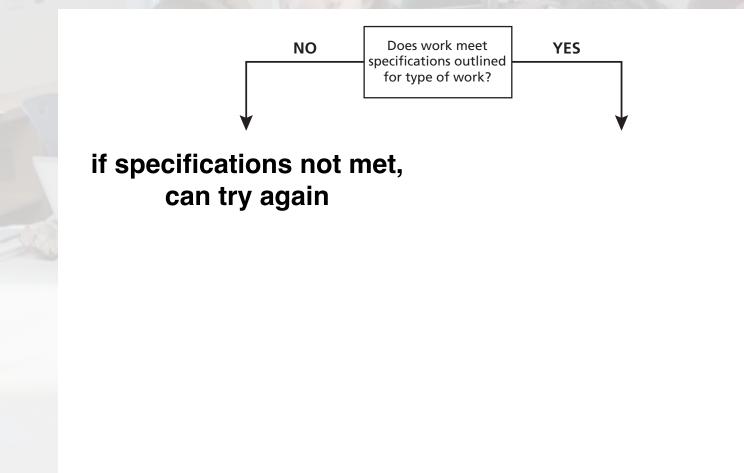
Inside Higher Ed, Yes, Virginia, there is a better way to grade

Specifications grading

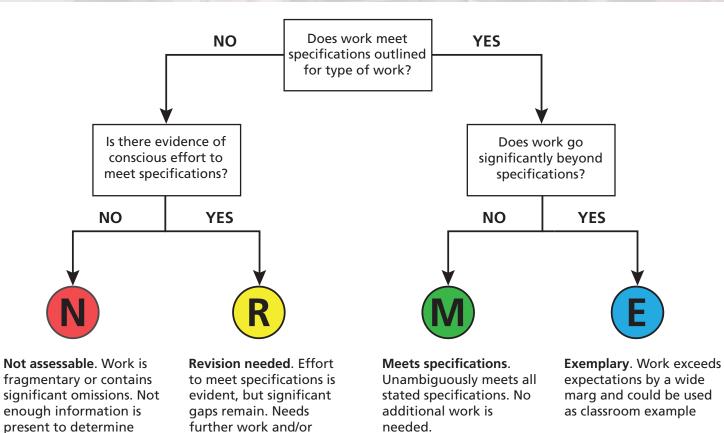
Inside Higher Ed, Yes, Virginia, there is a better way to grade



Inside Higher Ed, Yes, Virginia, there is a better way to grade



Inside Higher Ed, Yes, Virginia, there is a better way to grade

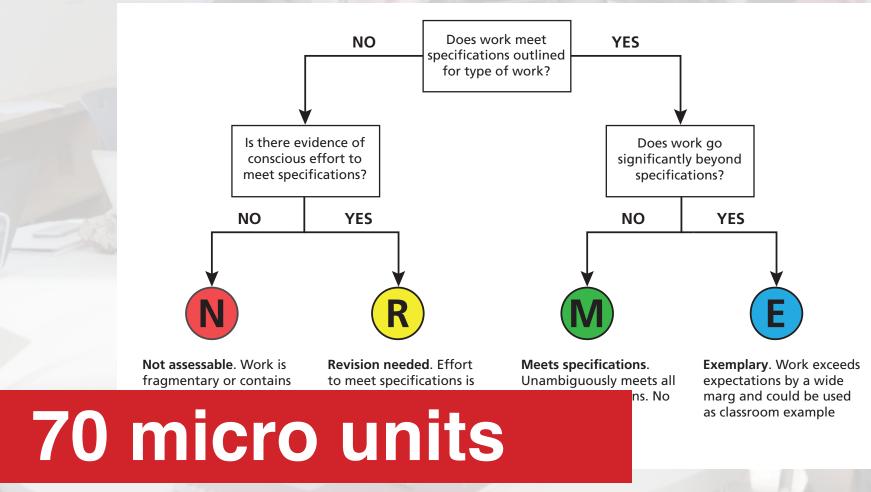


Inside Higher Ed, Yes, Virginia, there is a better way to grade

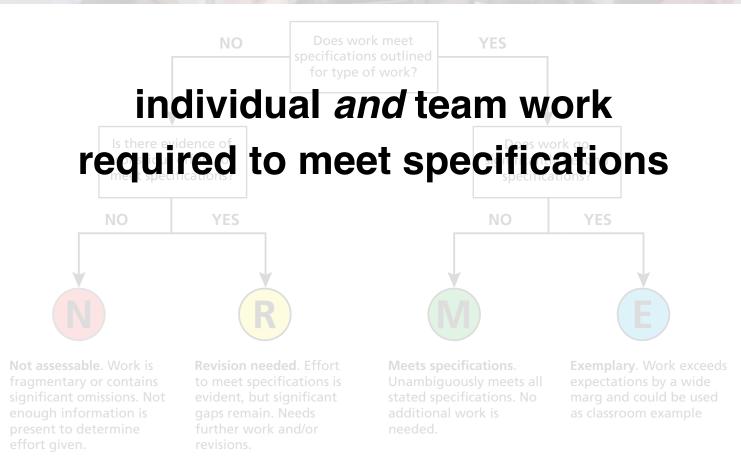
revisions.

1 pandemic lessons

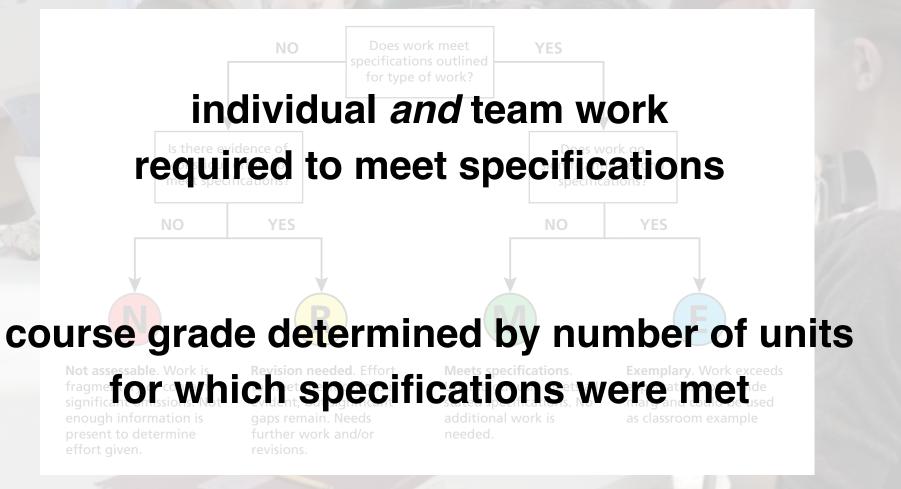
effort given.



Inside Higher Ed, Yes, Virginia, there is a better way to grade



Inside Higher Ed, Yes, Virginia, there is a better way to grade



Inside Higher Ed, Yes, Virginia, there is a better way to grade

instead of all students coming to instructor's room...

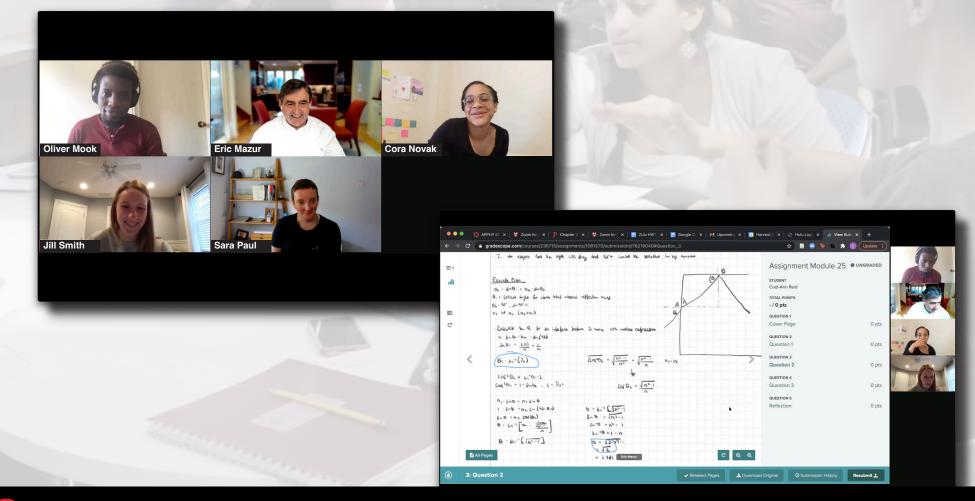


instead of all students coming to instructor's room...

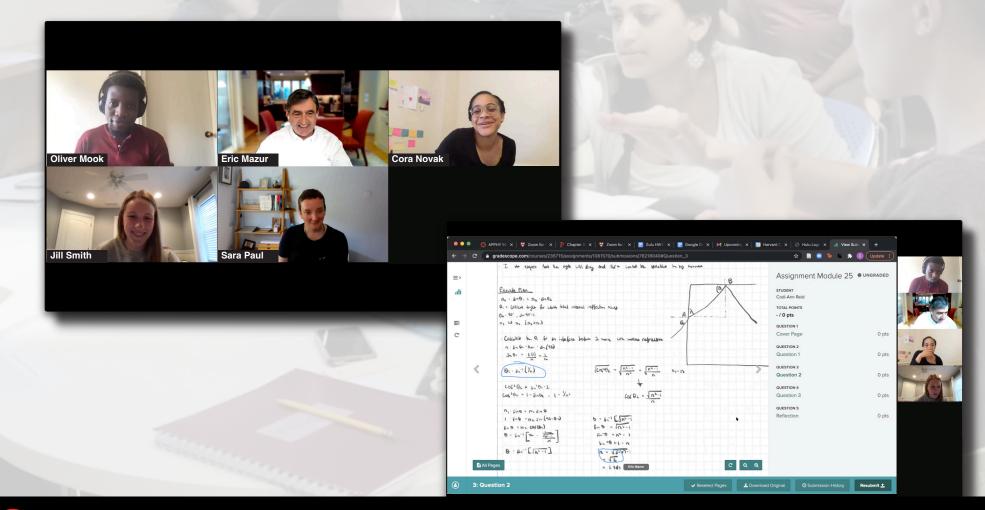
...instructional staff visits each team's own room



80 students in one room \rightarrow 20 rooms with 4 students

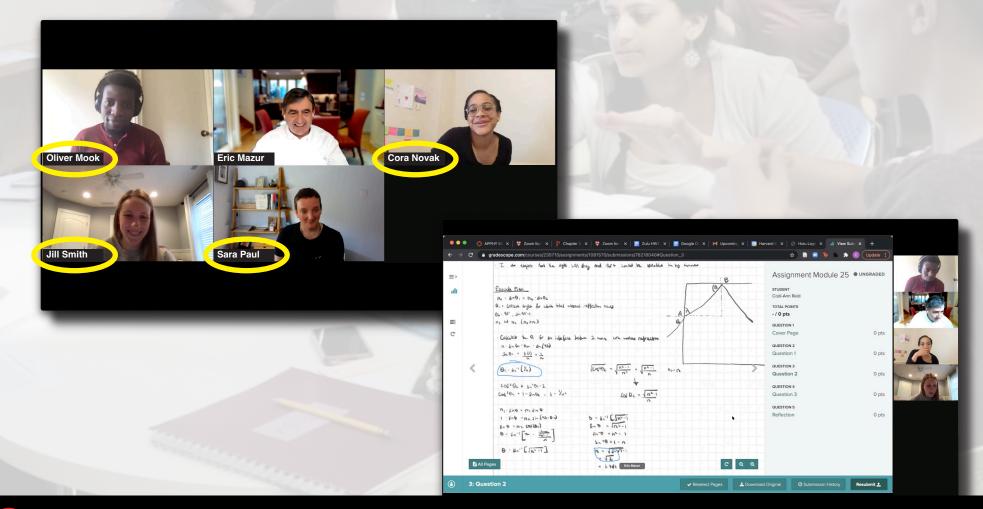


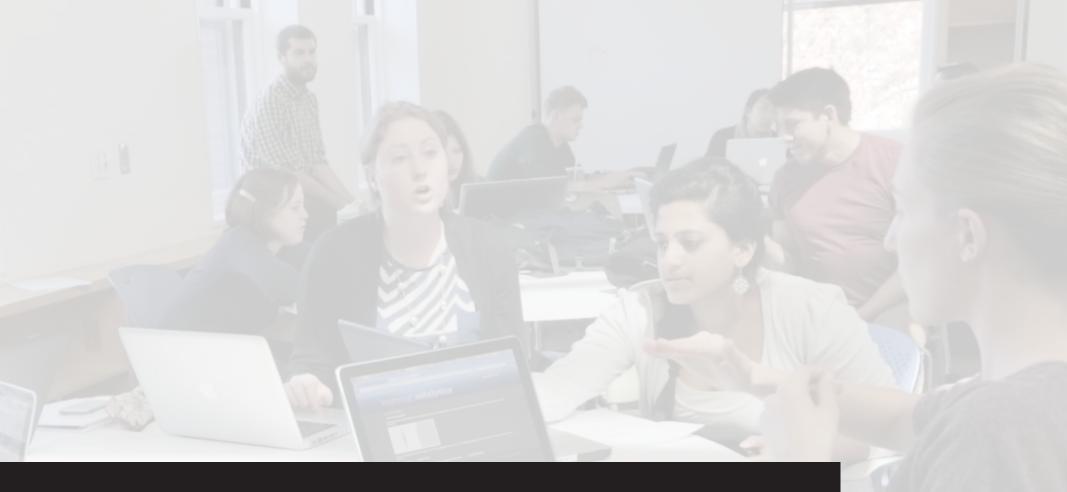
every student on front row





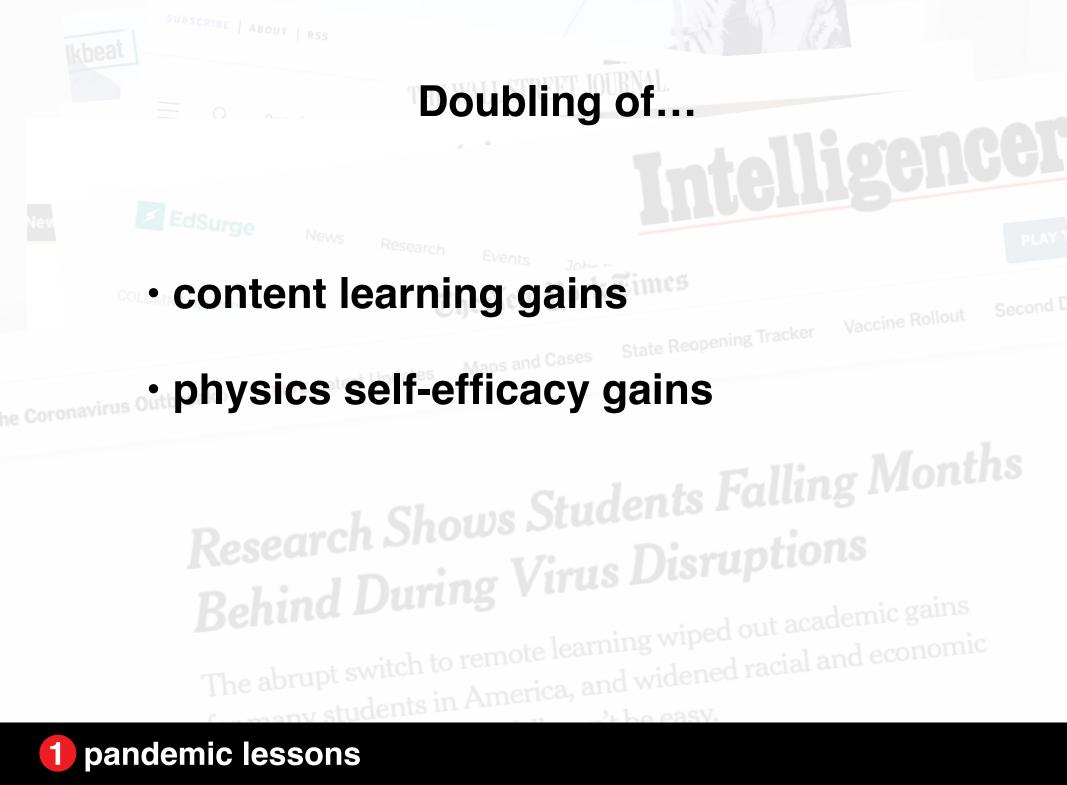
every student on front row & address each by their name





Does it work?







What do students say?

he Coronavirus Outbreak

Research Shows Students Falling Months Behind During Virus Disruptions The abrupt switch to remote learning wiped out academic gains for many students in America, and widened racial and economic

Agile Feedback Survey (Talbert)

- 1. I was challenged intellectually
- 2. I had plenty of support
- 3. I am closer to mastering the ideas of the course now
- 4. I made progress because of my own efforts and choices
- 5. I felt I was part of a community of learners

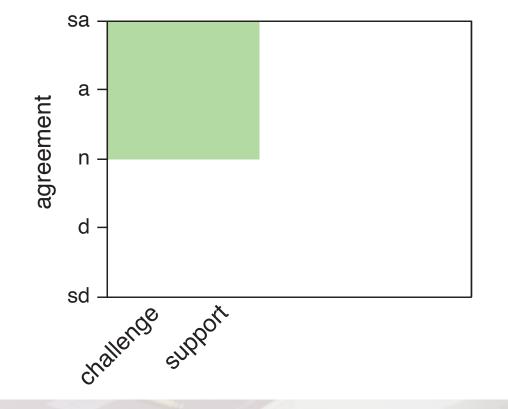


challenge vs. support

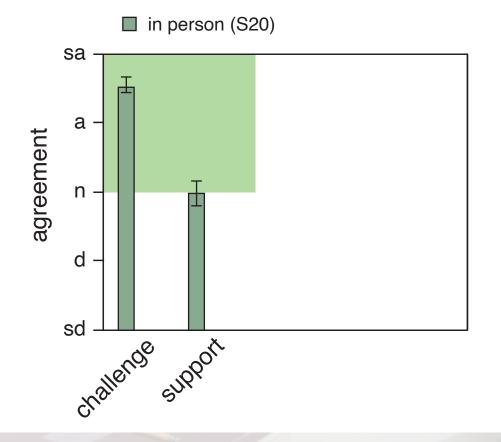
- 1. I was challenged intellectually
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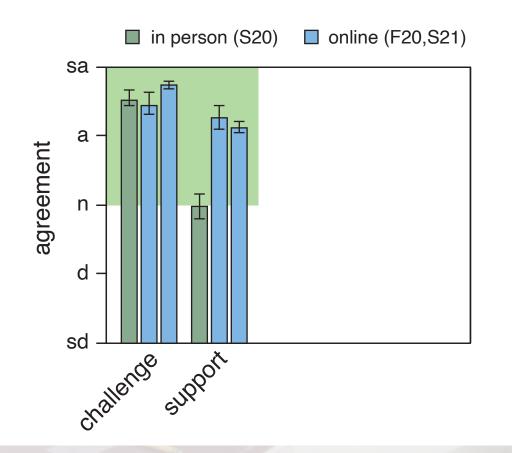
challenge vs. support



challenge vs. support



challenge vs. support



1 pandemic lessons

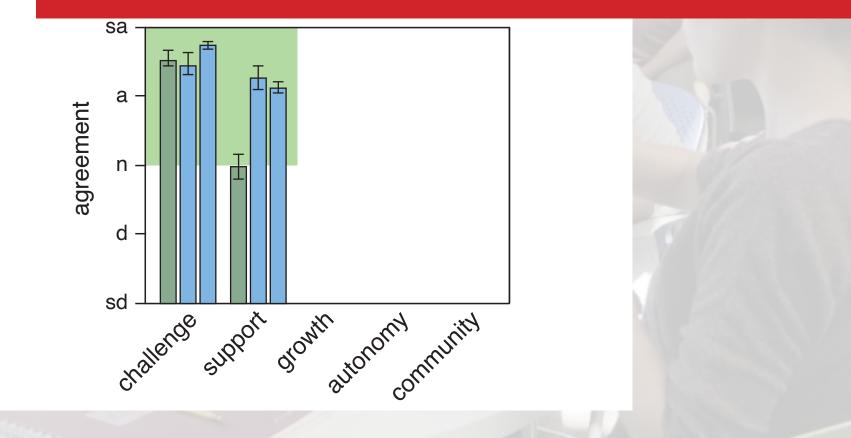
self-determination

- 1. I was challen sed intellectually (challenge)
 - had premy a support (su
- 3. I am closer to mastering the ideas of the course now (growth)
- 4. I made progress because of my own efforts and choices (auton.)
- 5. I felt I was part of a community of learners (relatedness)



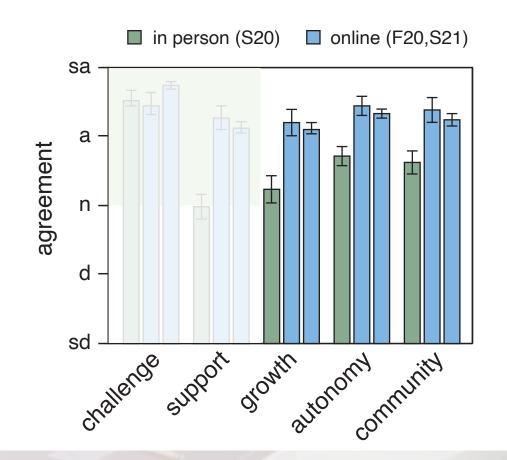
self-determination

What do you predict?



1 pandemic lessons

self-determination



1 pandemic lessons





1 pandemic lessons

new normal





content module

practical work





content module

reading

practical work





content module

reading

readiness assurance

practical work





practical work

content module

reading

readiness assurance

tutorial



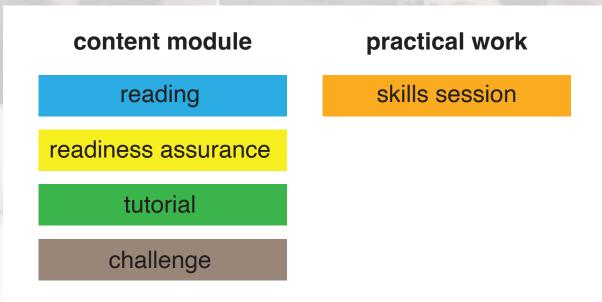


practical work

content module reading readiness assurance tutorial challenge

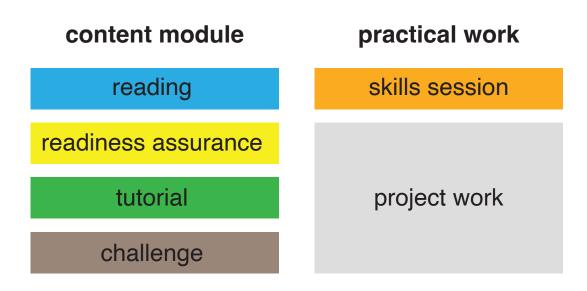












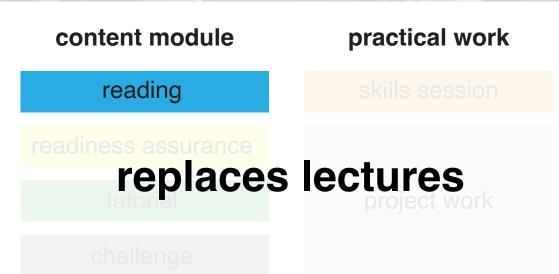




content module	practical work
reading	











content module reading

. ...

practical work

readiness assurance

replaces lectures

using a social learning platform





content module practical work
reading
skills session
replaces lectures

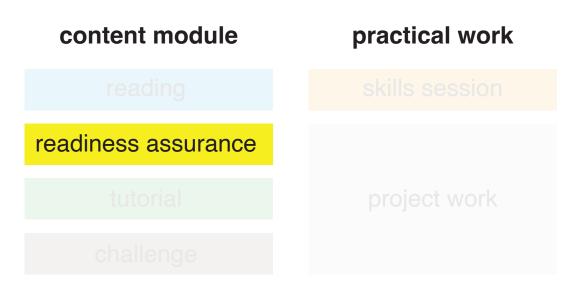
using a social learning platform

Perusall

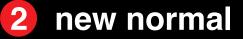




2







content module

practical work

reading

readiness assurance

strengthen basic knowledge





content modulepractical workreadingskills sessionreadiness assurance

strengthen basic knowledge through self-paced Peer Instruction





content module	practical work
tutorial	





content module	practical work
tutorial	

resolve common misconceptions





content module	practical work
challenge	





content module

practical work

(try to) solve three very hard problems

readiness assurance

tutorial

project work

challenge





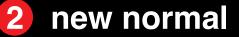
content module

practical work

(try to) solve three *very hard* problems (and reflect on your work)

challenge





content module	practical work
	skills session





content module

practical work

skills session

reading

eadiness assurance

develop relevant skills

challenge





content module practical work skills session eadiness assurance develop relevant skills

challenge

(team work, taking data, building circuits, etc.)





content module	practical work
	project work





content module	practical work
	project work

3 month-long projects per semester (six total)





content module	practical work
	project work

3 month-long projects per semester (six total) new team for each project



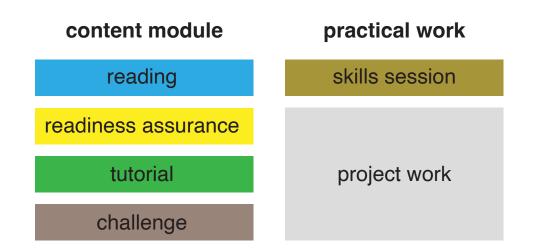


classrooms are a constraint





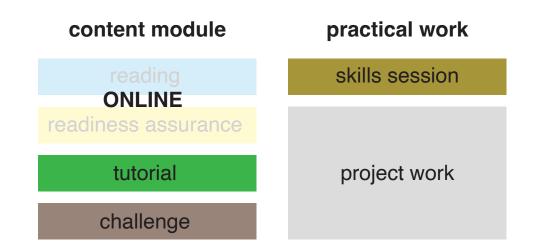
InnoBreakCafe



1 pandemic lessons



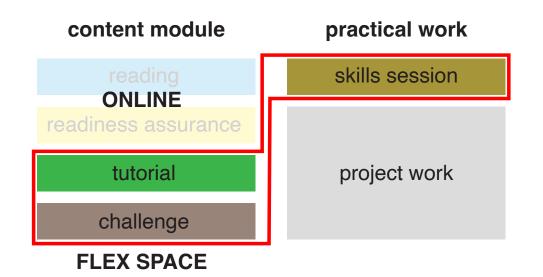
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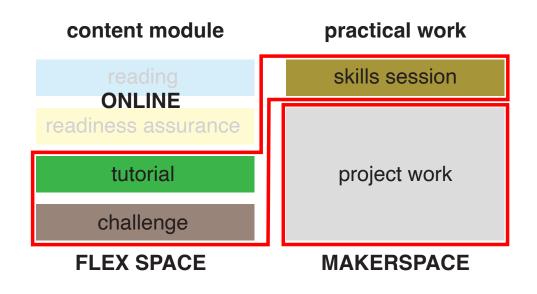
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1 pandemic lessons



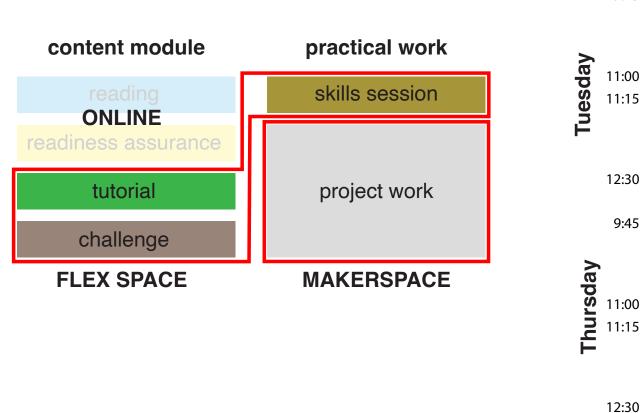
InnoBreakCafe



1 pandemic lessons



noBreakCafe Iearning space



2

1 pandemic lessons

new normal

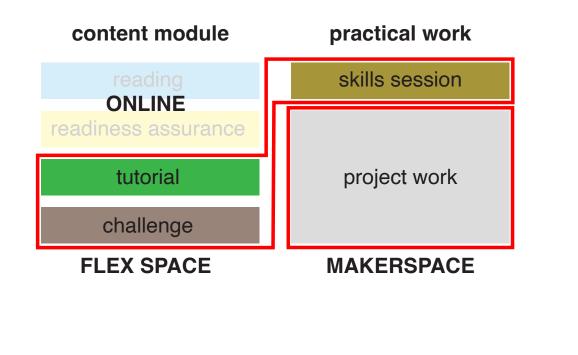
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nnoBreakCafe





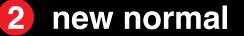
9:45



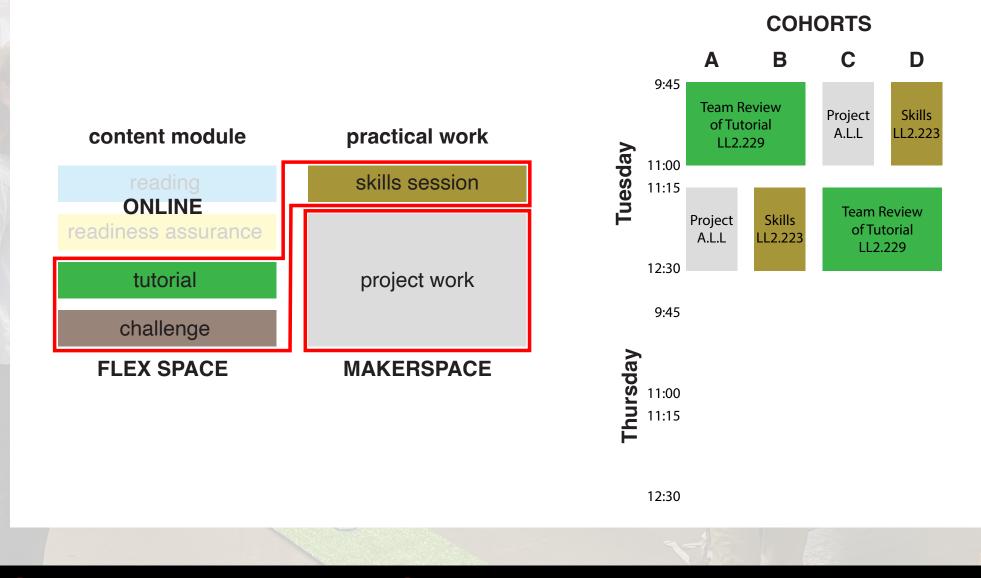


12:30

1 pandemic lessons



InnoBreakCafe

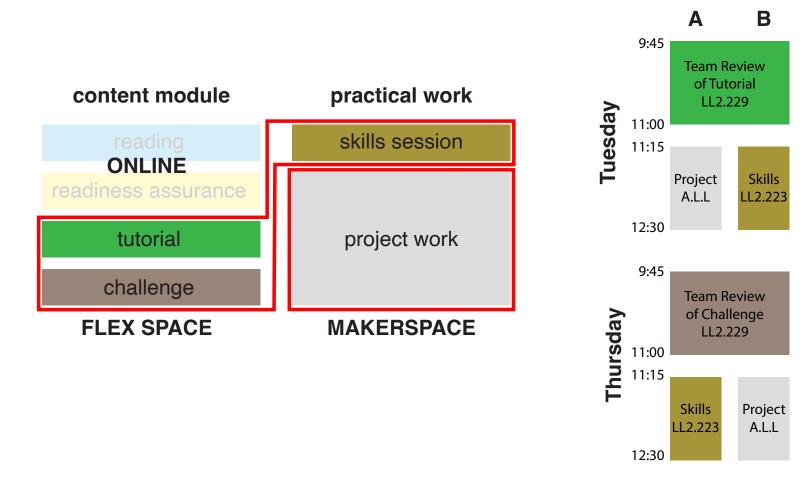


1 pandemic lessons

new normal

2

nnoBreakCafe



2

COHORTS

С

Project

A.L.L

Skills

LL2.223

D

Skills

LL2.223

Project

A.L.L

Team Review

of Tutorial

LL2.229

Team Review

of Challenge

LL2.229

1 pandemic lessons

new normal



pandemic lessons



InnoBreakCafe

"breaking down classroom walls"





InnoBreakCafe





no lectures





no lectures

no exams



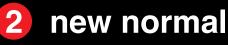


no lectures

no exams

no (fixed) classroom





no lectures

no exams

no (fixed) classroom

no (fixed) start or end time

1 pandemic lessons



new normal

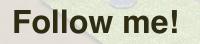


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