Setting Learning Free





Setting Learning Free













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Yuval Noah Harari MARCH 20 2020

Yuval Noah Harari: the world after coronavirus

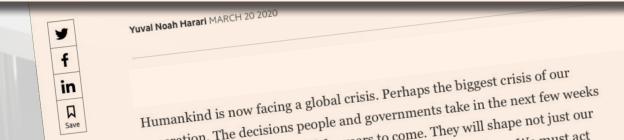
This storm will pass. But the choices we make now could change our lives for years to come



in

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









Yuval Noah Harari MARCH 20 2020

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

Humankind is now facing a global crisis. Perhaps the biggest crisis of our

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evention. The decisions people are come. They will shape not just our





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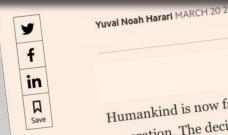
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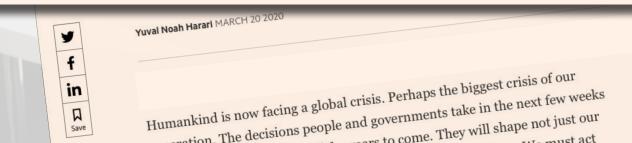


Humankind is now facing a global crisis. Perhaps the biggest crisis of our The decisions people and governments take in the next few weeks



Many short-term emergency measures will become a fixture of life. That is the nature of emergencies. They fast-forward historical processes. Decisions that in normal times could take years of deliberation are passed in a matter of hours. Immature and even dangerous technologies are pressed into countries se Will online teaching become a fixture of life?

happens when everybody works from home and communicates only at a distance? What happens when entire schools and universities go online? In normal times, governments, businesses and educational boards would never agree to conduct such experiments. But these aren't normal times.







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 as Hawkins



THE WALL STREET JOURNAL.

Popular

Latest

The Atlantic

IDEAS

Remote Learning Is a Bad Joke

My kid can't handle a virtual education, and neither can I.

Emily Gould

Author and essayist



RECOMMEN READING

IGHT TO YOU BY

Put Anthony Fauci in Dunk Tank

CONOR FRIEDERSDORF

Why Millennials Can

The reason? Bad pedagogy!

information sense-making transfer

Traditional model

class

information transfer

home

sense-making

Traditional model

class

information transfer

instructor-paced synchronous lecture

home

sense-making

self-paced asynchronous homework/study



information transfer

instructor-paced synchronous lecture

home

sense-making

self-paced asynchronous homework/study

class

information transfer

instructor-paced synchronous lecture

home

information transfer

instructor-paced synchronous **online** lecture

home

sense-making

self-paced asynchronous homework/study

class

information transfer

instructor-paced synchronous lecture

home

information transfer

instructor-paced asynchronous recorded lecture

home

sense-making

self-paced asynchronous home work/study

class

information transfer

instructor-paced synchronous lecture

information traits or the second seco

instructor-paced asynchronous recorded lecture

self-paced asynchronous home work/study



Traditional model

class

information transfer

home

sense-making

Flipped model

home

information transfer

class

sense-making

Flipped model

home

information transfer

self-paced asynchronous

class

sense-making

Flipped model

home

information transfer

self-paced asynchronous **& interactive**

class

sense-making

Flipped model online



information transfer

self-paced asynchronous **& interactive**

class

sense-making

Flipped model online

home

information transfer

self-paced asynchronous **& interactive**

home

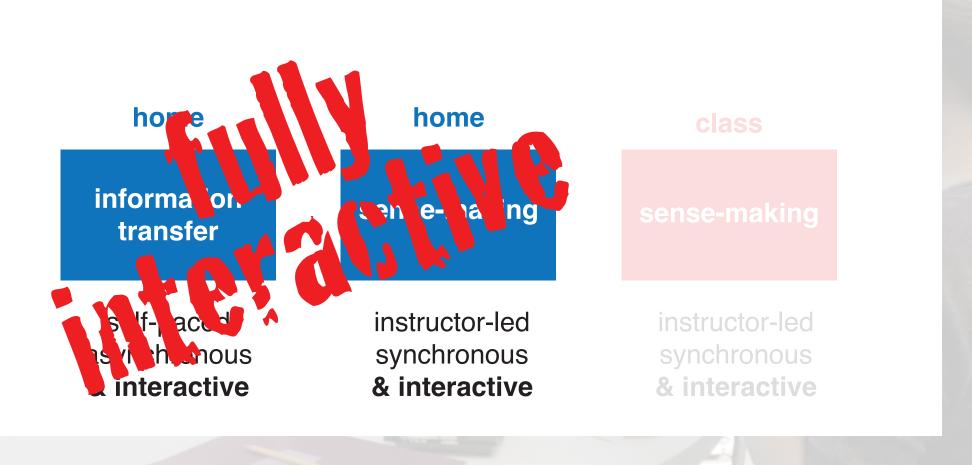
sense-making

instructor-led synchronous **& interactive**

class

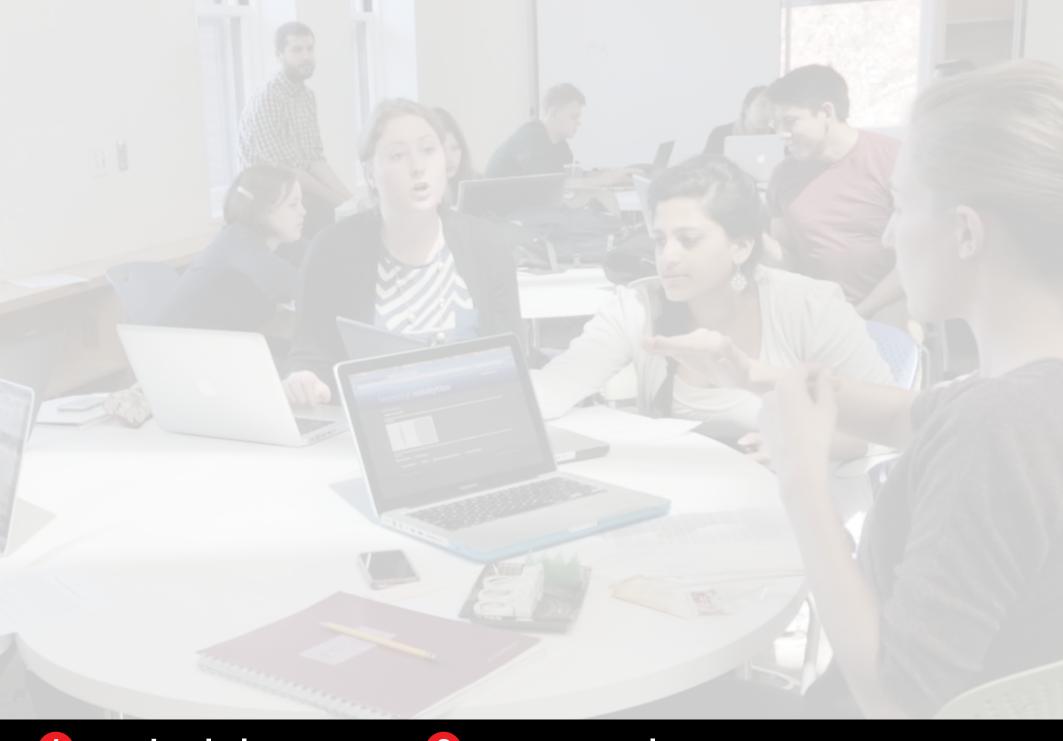
sense-making

Flipped model online



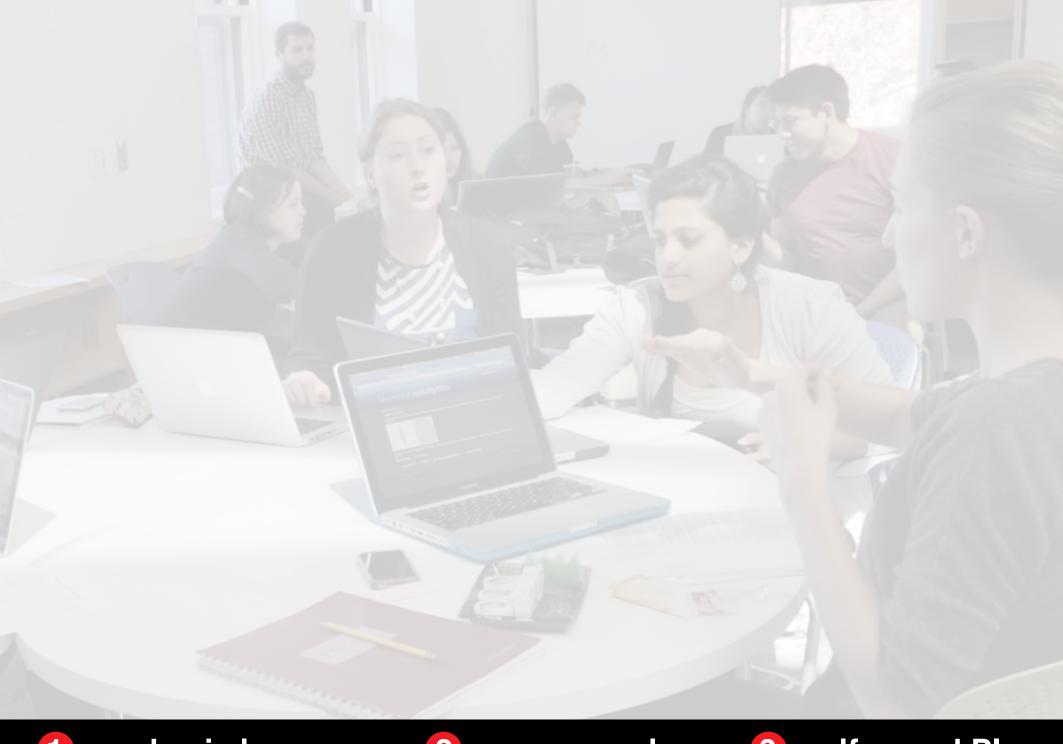


1 pandemic lessons



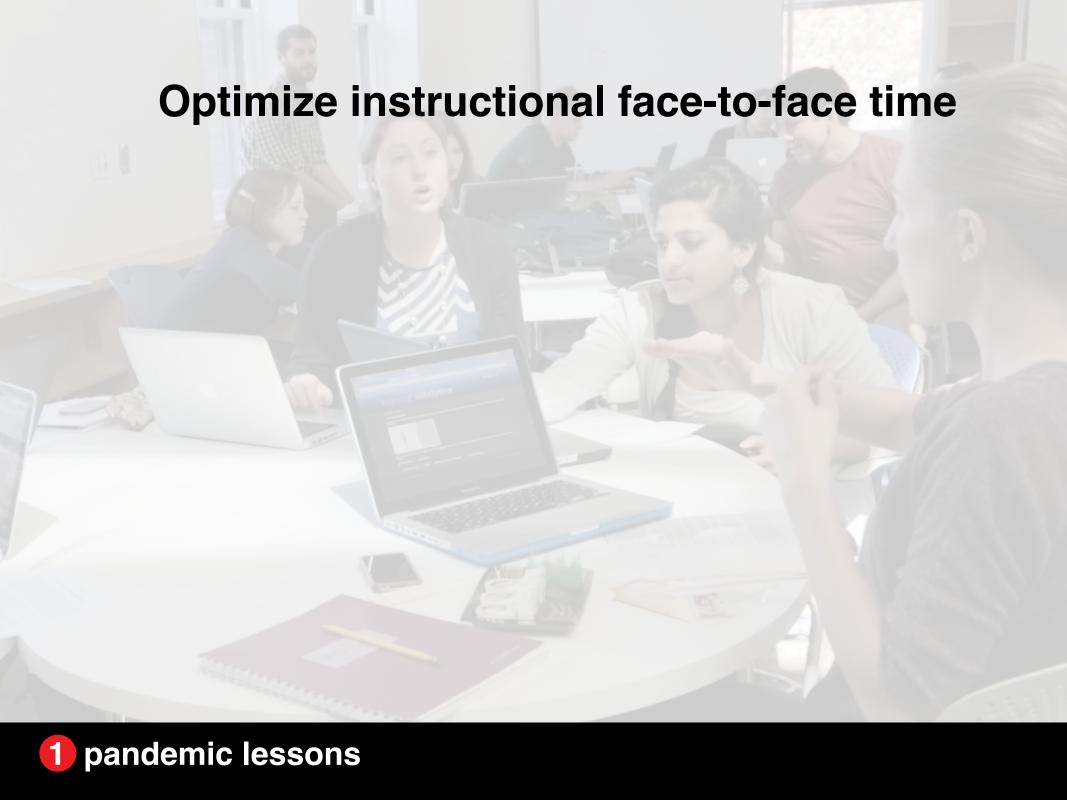
1 pandemic lessons

2 new normal



- 1 pandemic lessons
- 2 new normal

3 self-paced Pl



Optimize instructional face-to-face time

home

information transfer

self-paced asynchronous **& interactive**

home

sense-making

instructor-led synchronous & interactive

class

sense-making

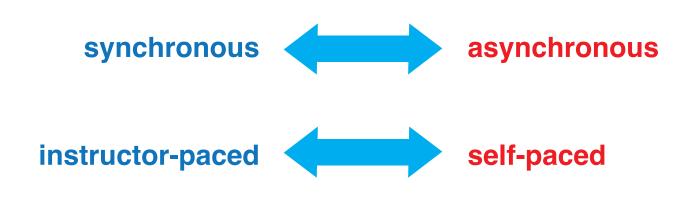
Optimize instructional face-to-face time

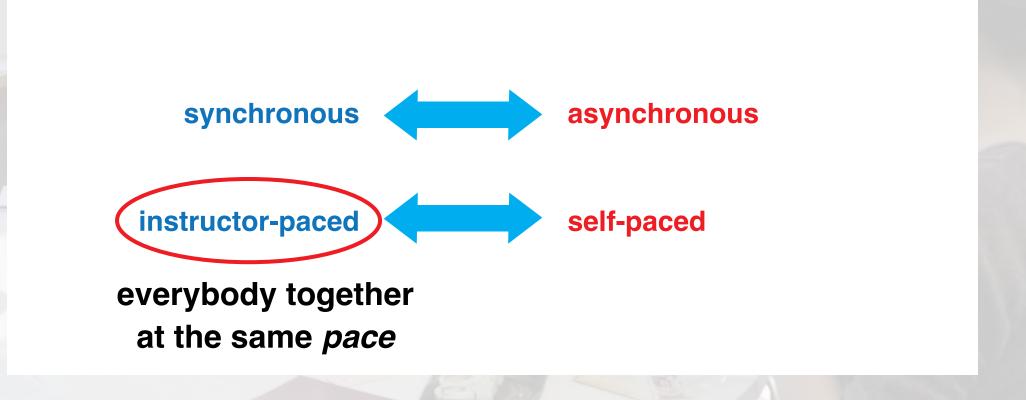


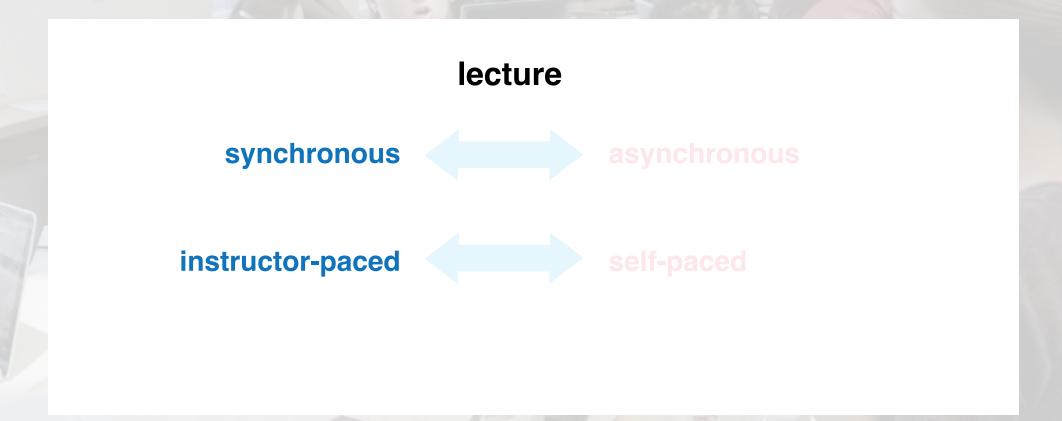
Optimize instructional face-to-face time



everybody together at the same *time*









synchronous asynchronous

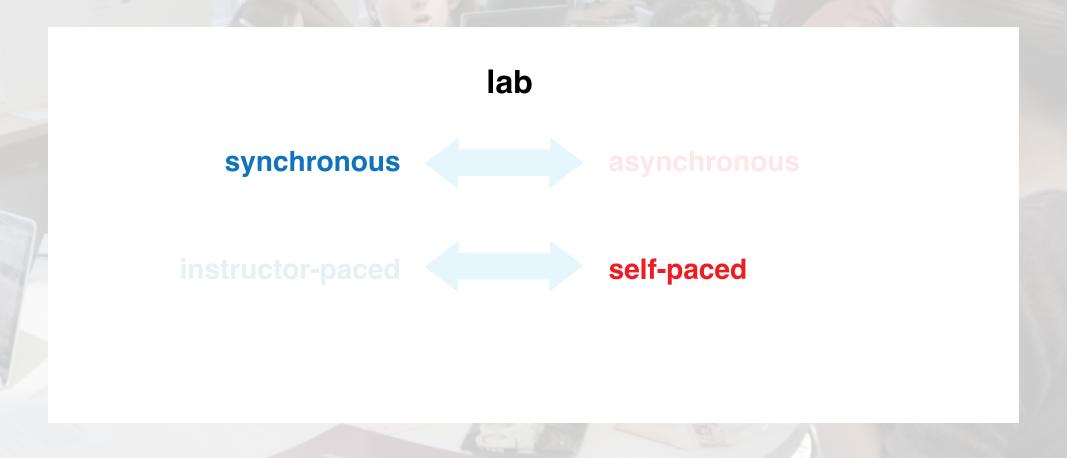
instructor-paced











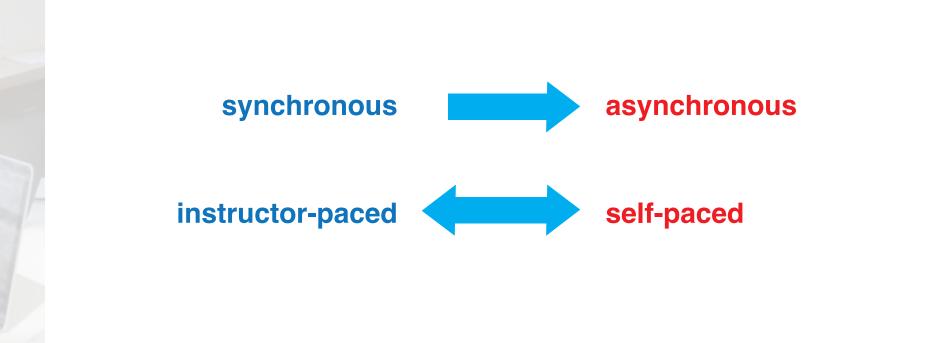


synchronous asynchronous

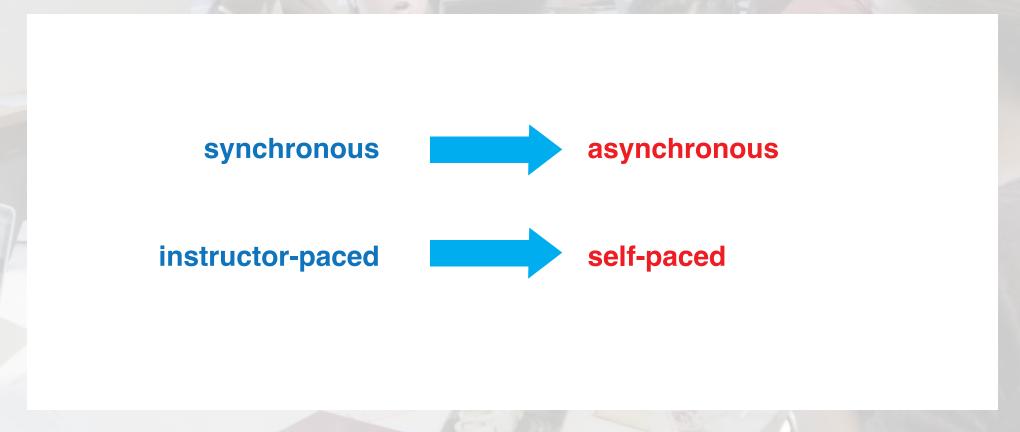
instructor-paced



self-paced







more time to help students where it really matters!

1 pandemic lessons



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

asynchronous

synchronous

individual work



team work

synchronous

collaborative work

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

asynchronous

individual work



synchronous

team work



team check

synchronous

collaborative work

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

asynchronous

individual work

all engaged



team work



synchronous

team check

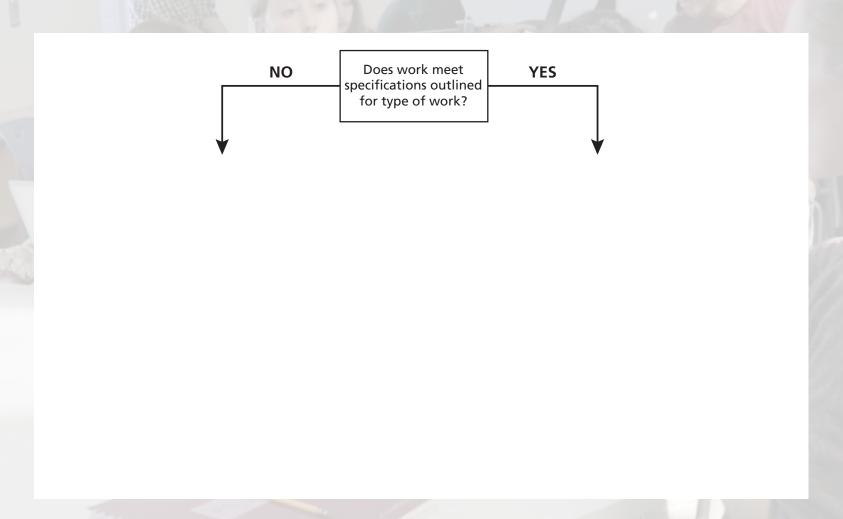
efficient team

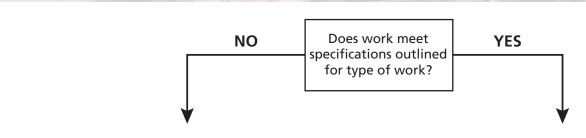
quality control



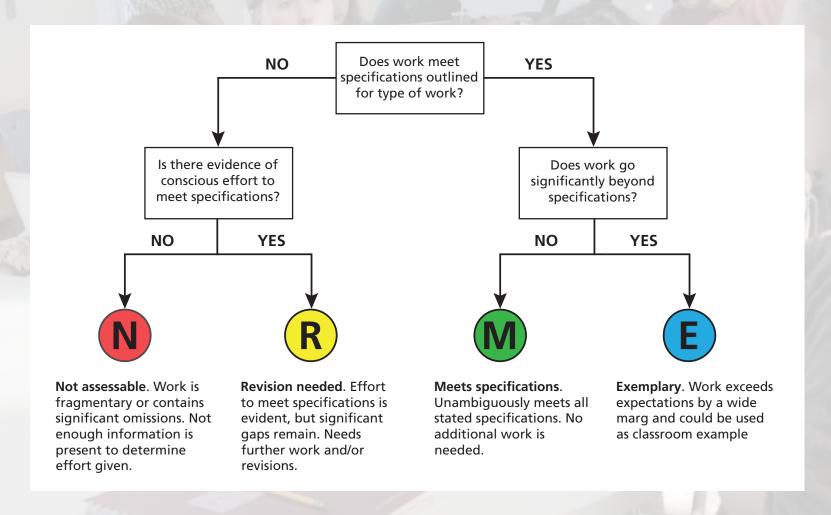
Specifications grading

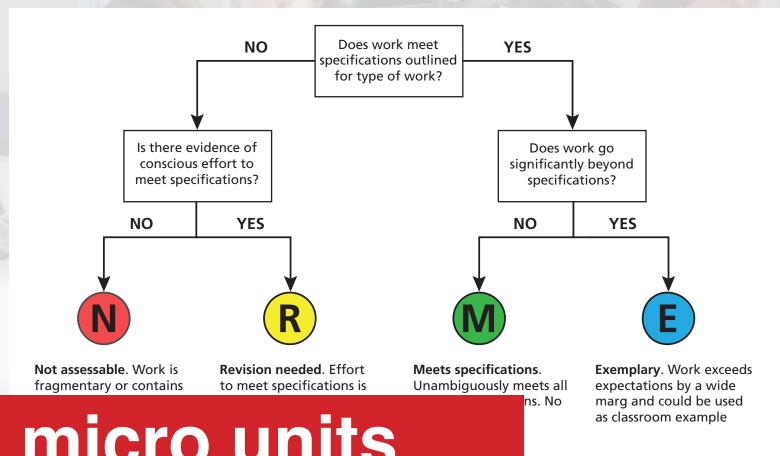






if specifications not met, can try again

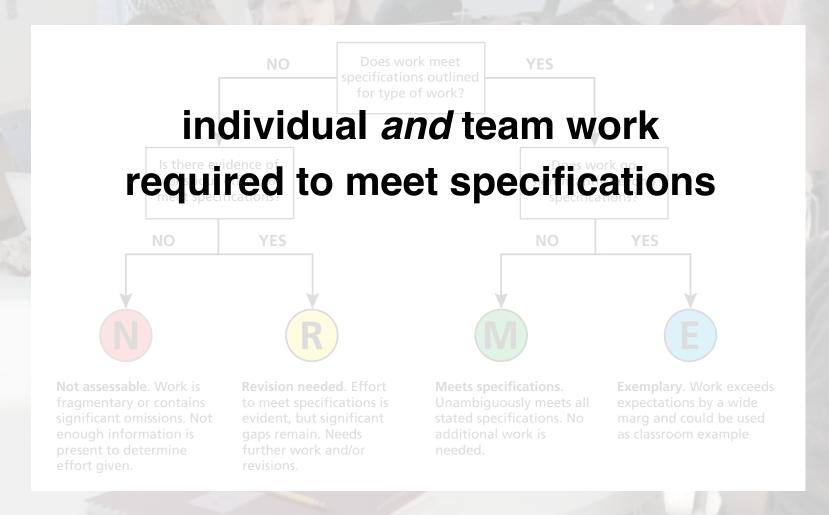


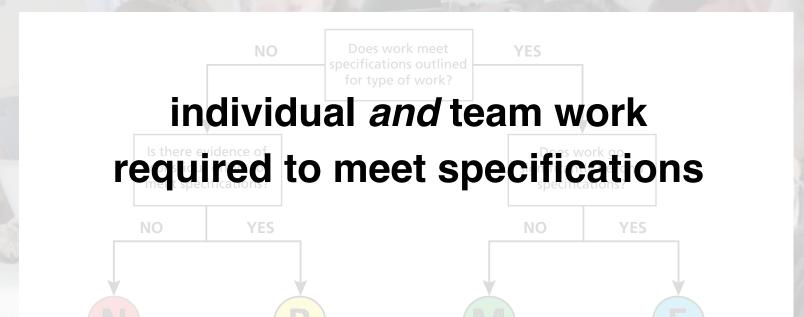


70 micro units

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

pandemic lessons





course grade determined by number of units

Not assessable. Work is Revision needed. Effort Meets specifications. Exemplary. Work exceeds fragmeforewhich specifications were met designifications.

enough information is present to determine effort given. gaps remain. Needs further work and/or revisions.

additional work is needed.

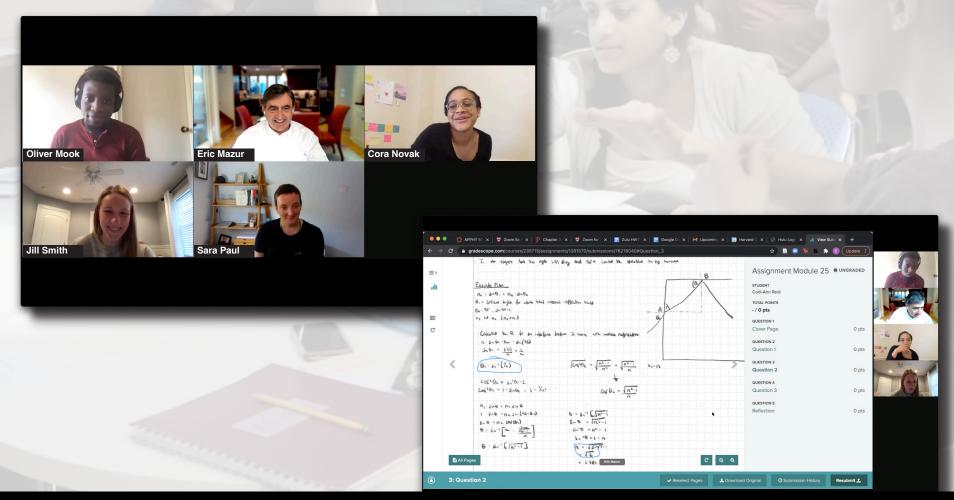
as classroom example

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

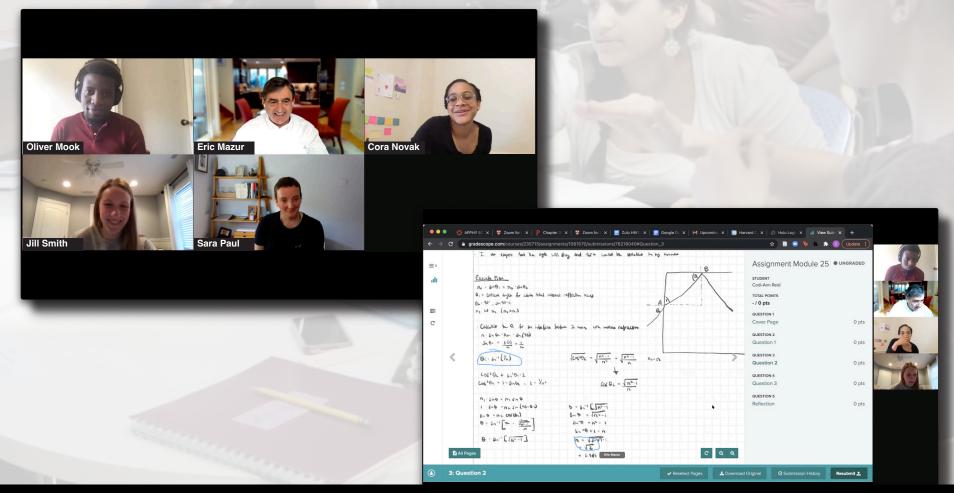
instead of all students coming to instructor's room...

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

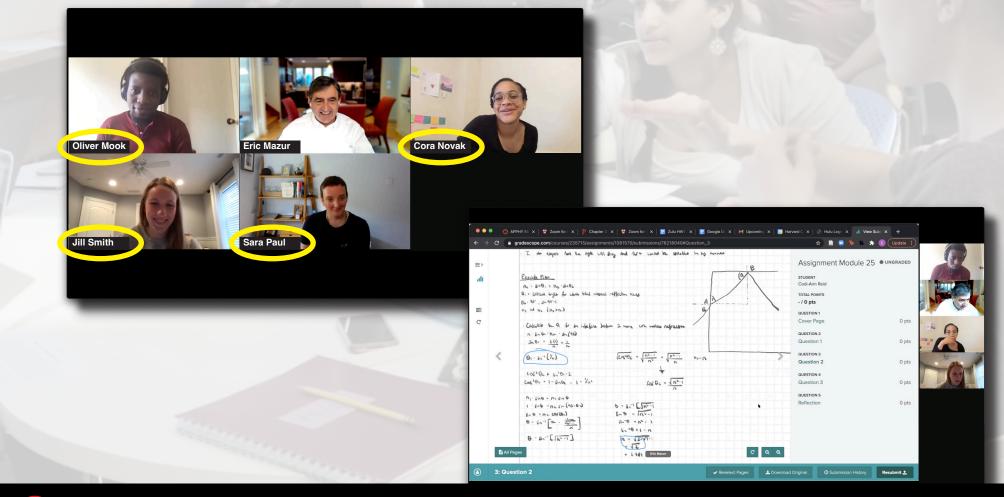
80 students in one room → 20 rooms with 4 students

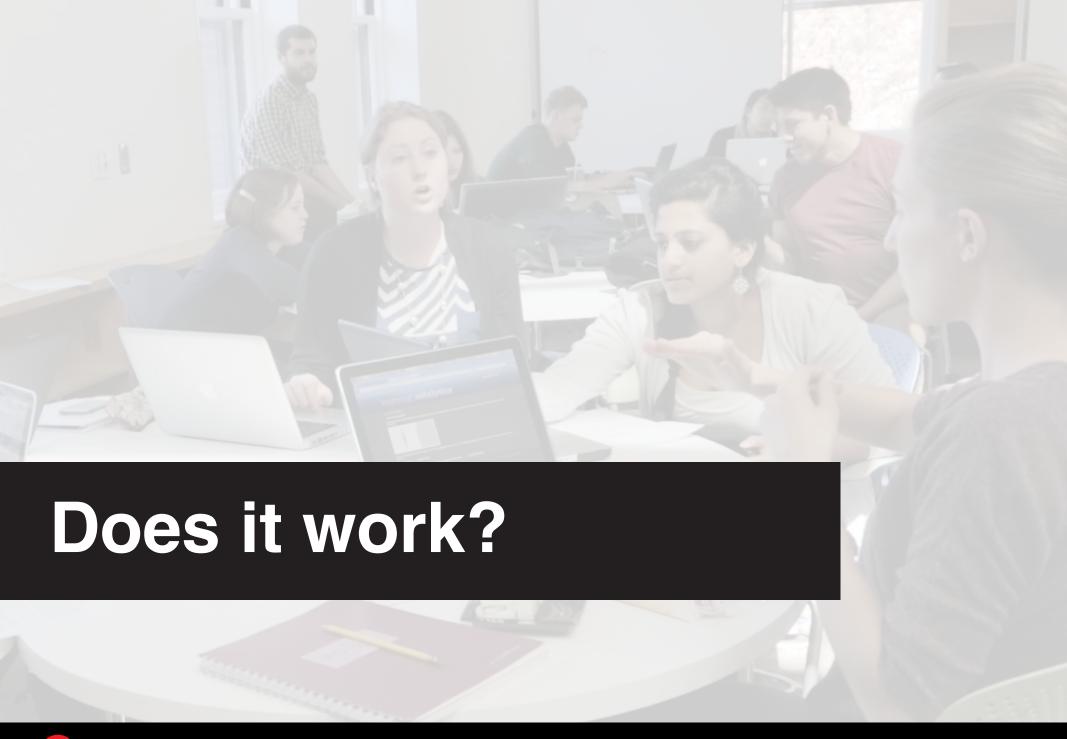


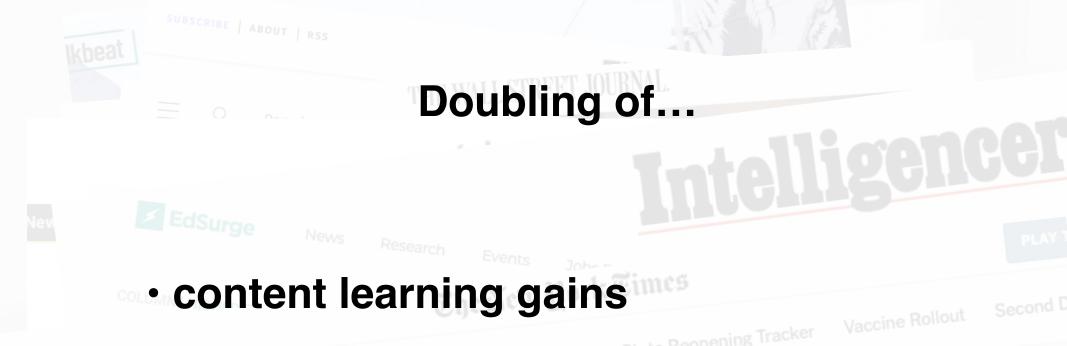
every student on front row



every student on front row & address each by their name







• physics self-efficacy gains

Research Shows Students Falling Months Behind During Virus Disruptions

The abrupt switch to remote learning wiped out academic gains



What do students say?

e Coronavirus Outpreak

Research Shows Students Falling Months Behind During Virus Disruptions

The abrupt switch to remote learning wiped out academic gains

1 pandemic lessons

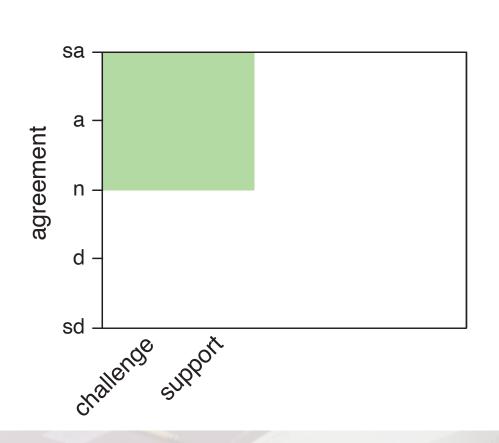
Agile Feedback Survey (Talbert)

- 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

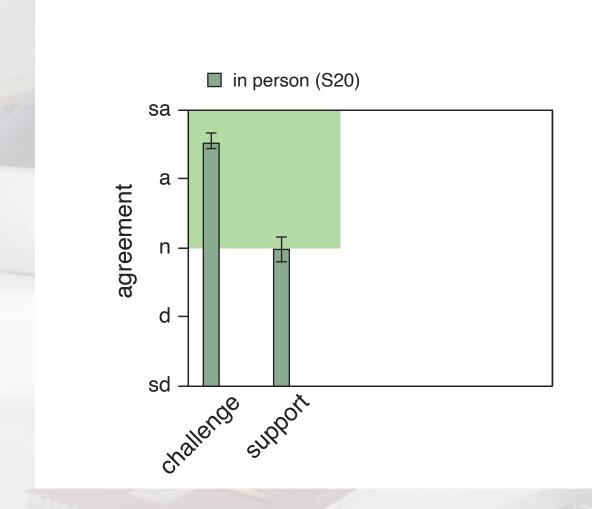
challenge vs. support

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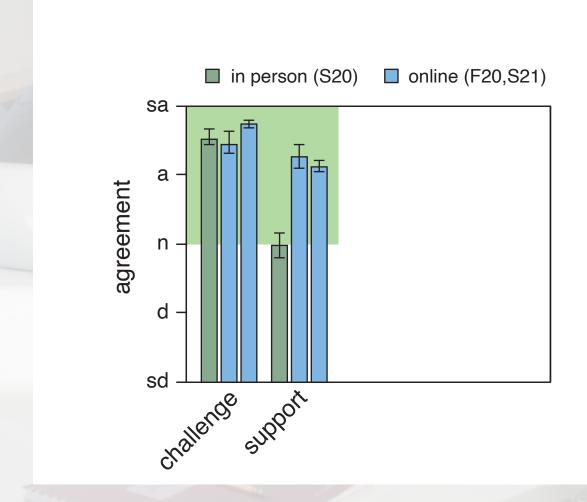
challenge vs. support



challenge vs. support



challenge vs. support

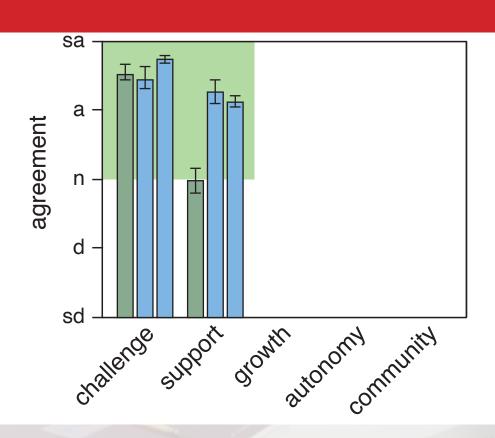


self-determination

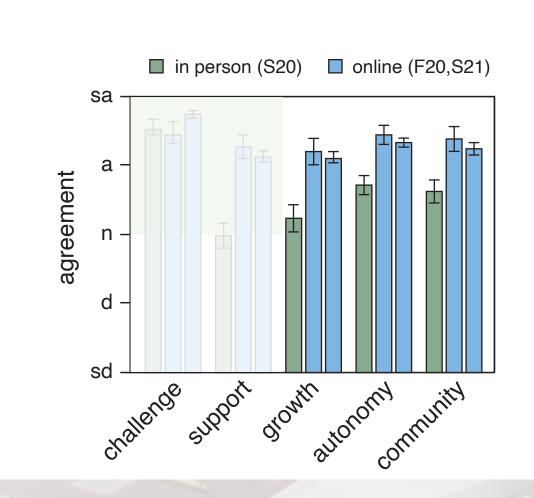
- 1. I was challenged mellectually (challenge)
 - had premy support (su
- 3. I am closer to mastering the ideas of the course now (growth)
- 4. I made progress because of my own efforts and choices (auton.)
- 5. I felt I was part of a community of learners (relatedness)

self-determination

What do you predict?



self-determination





I did my best teaching ever online!

Research Shows Students Falling Months Behind During Virus Disruptions

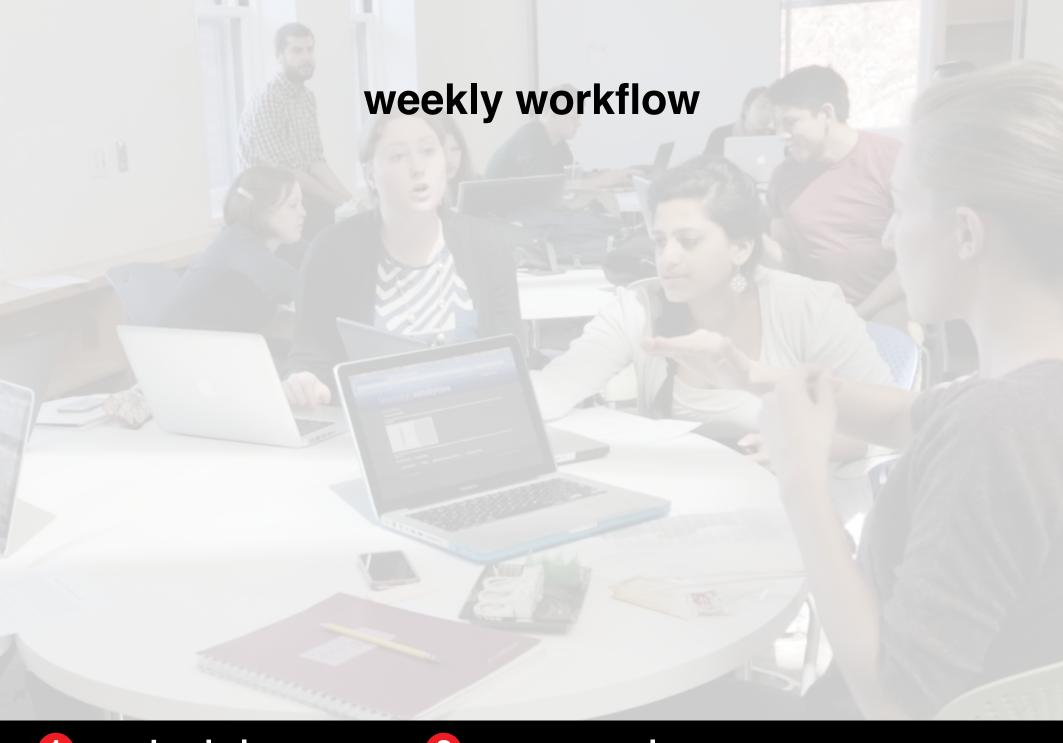
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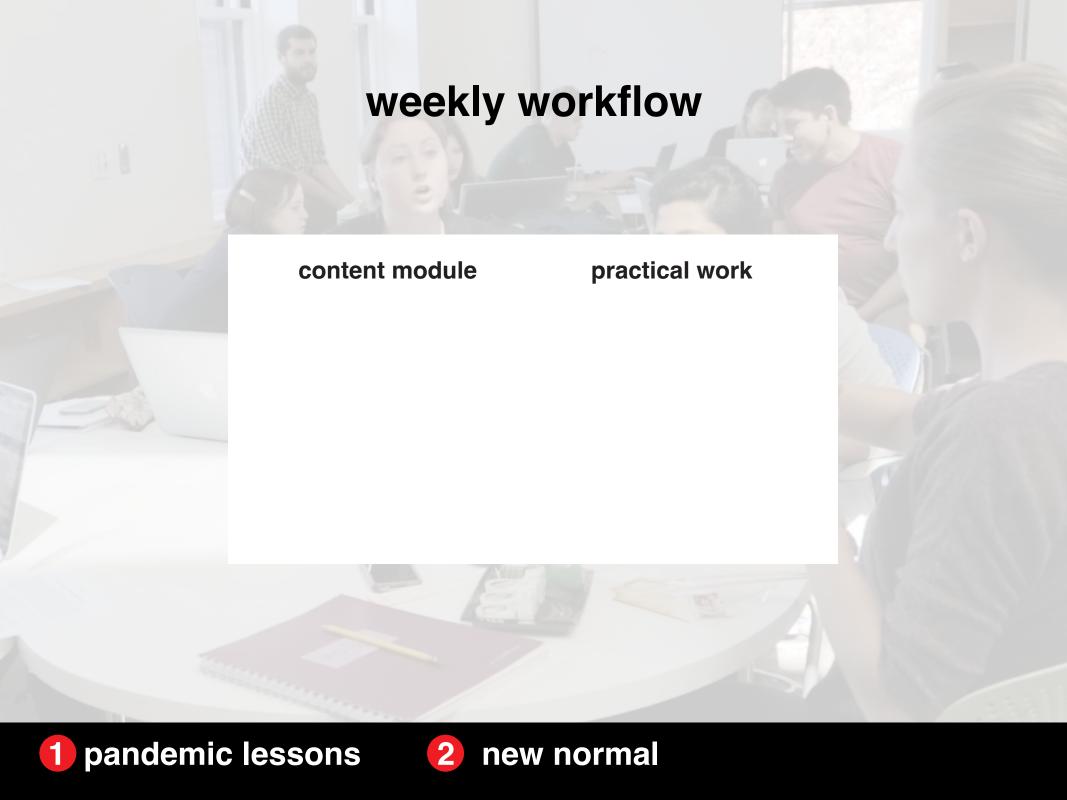


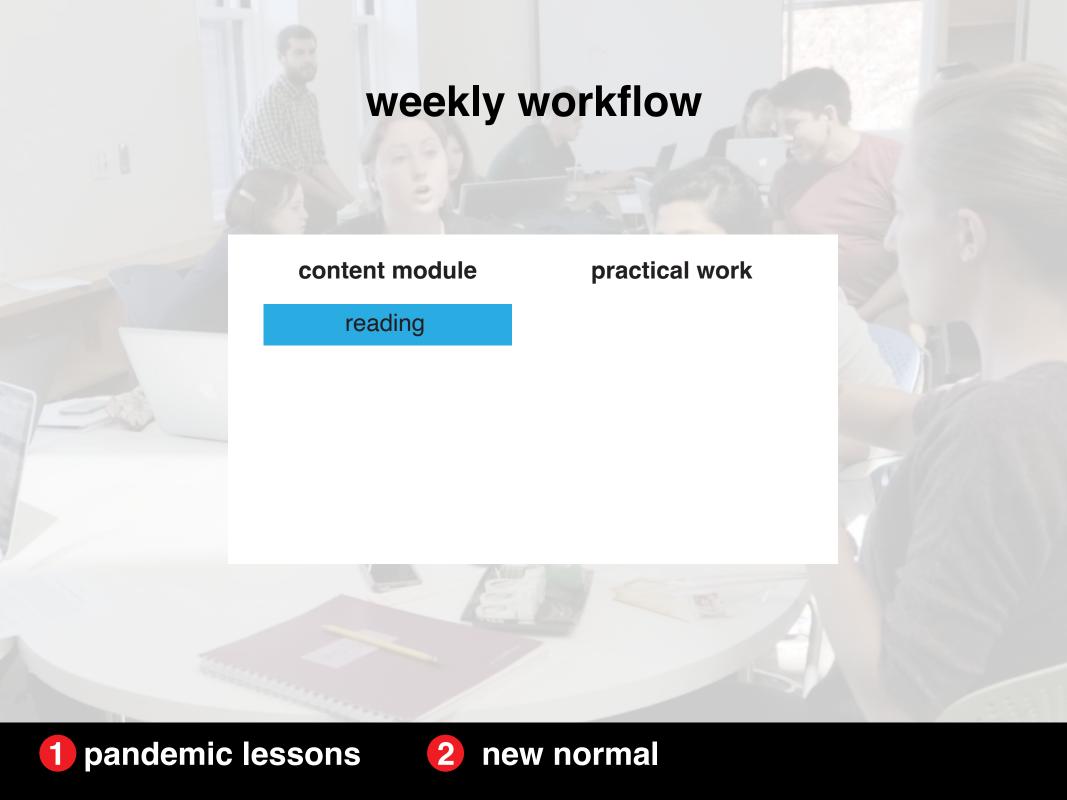


1 pandemic lessons

2 new normal







content module

practical work

reading

readiness assurance

content module

practical work

reading

readiness assurance

tutorial

content module

practical work

reading

readiness assurance

tutorial

content module

practical work

reading

skills session

readiness assurance

tutorial

content module

reading

skills session

practical work

readiness assurance

tutorial

challenge

project work

content module

practical work

reading

readiness assurance

tutoria

challenge

skills session

project work

content module

practical work

reading

skills session

readiness assurance

replaces lectures

content module

practical work

reading

skills session

replaces lectures

using a social learning platform

content module

practical work

reading

skills session

replaces lectures

using a social learning platform

Perusall

content module

practical work

reading

readiness assurance

tutoria

challenge

skills session

project work

content module

practical work

skills sessio

readiness assurance

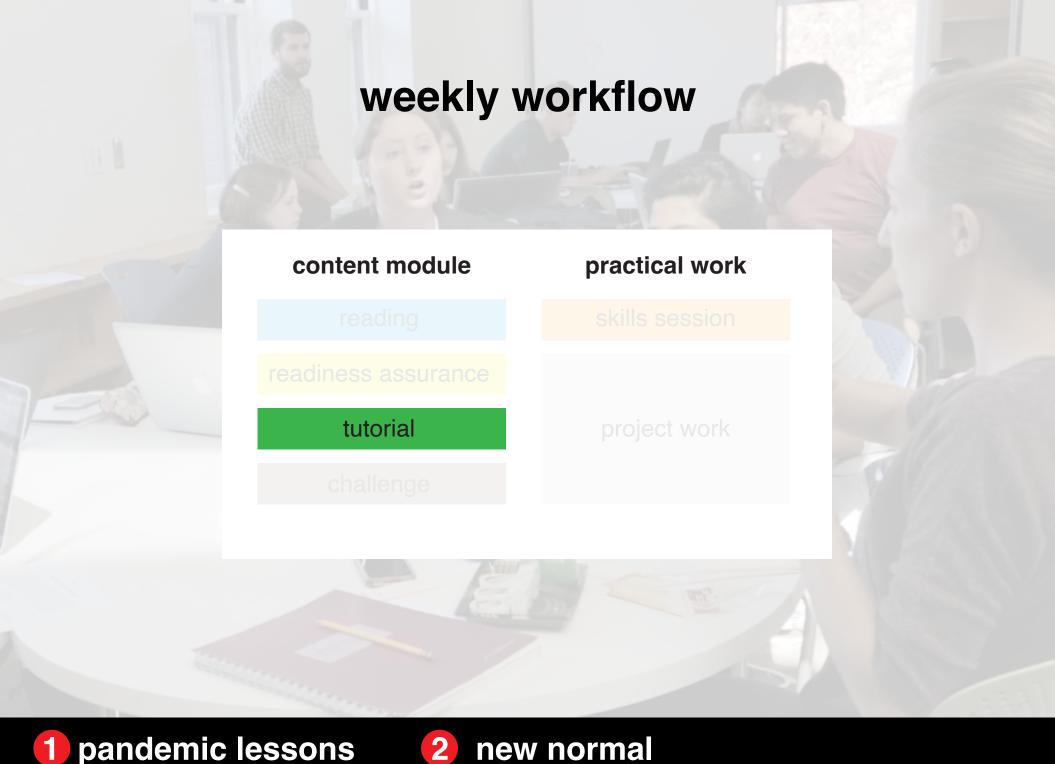
strengthen basic knowledge

content module

practical work

readiness assurance

strengthen basic knowledge through self-paced Peer Instruction



content module

practical work

tutorial

resolve common misconceptions



content module

reading

readiness assurance

tutoria

challenge

practical work

skills session

oroject work

content module

practical work

(try to) solve three very hard problems

tutoria

project wor

content module

practical work

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

content module

practical work

reading

skills session

readiness assurance

utorial

project work

content module

practical work

skills session

develop relevant skills

content module

practical work

eading

skills session

readiness assurance

develop relevant skills

challenge

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

content module

reading

readiness assurance

tutoria

challenge

practical work

skills session

project work

content module

eading

readiness assurance

tutorial

challenge

practical work

skills session

project work

3 month-long projects per semester (six total)

content module

eading

readiness assurance

tutorial

challenge

practical work

skills session

project work

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



learning space

content module

reading

readiness assurance

tutorial

challenge

practical work

skills session

project work

learning space

content module

reading

ONLINE

readiness assurance

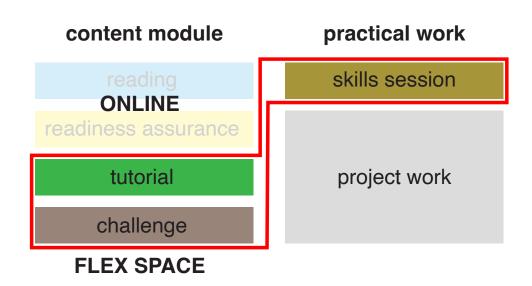
tutorial

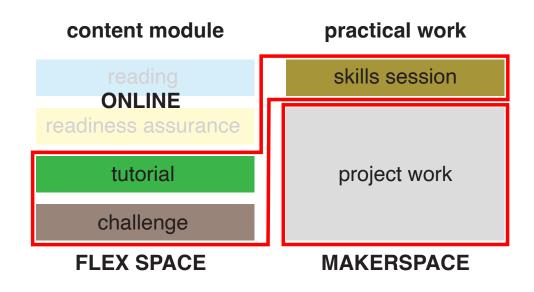
challenge

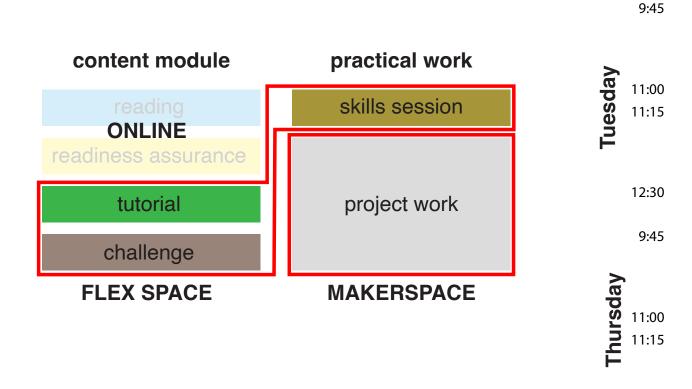
practical work

skills session

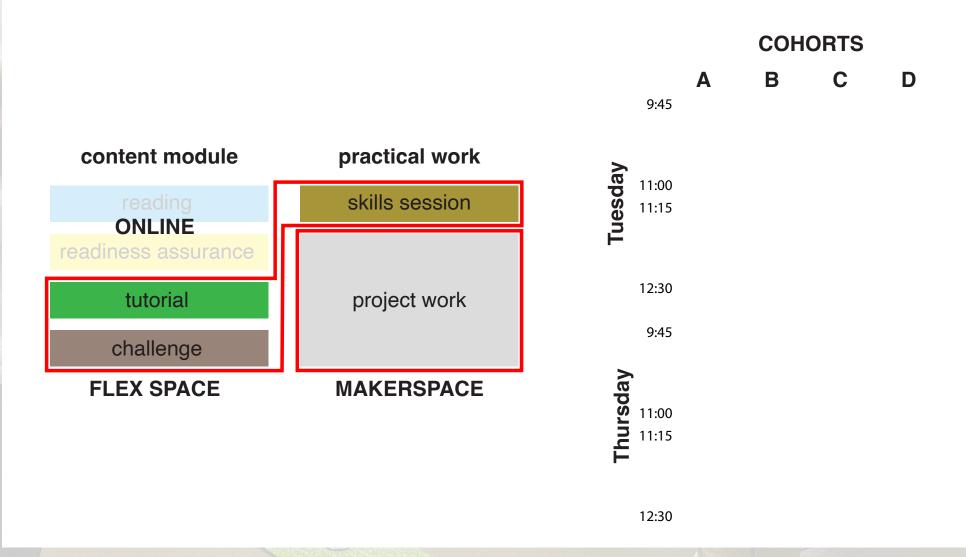
project work

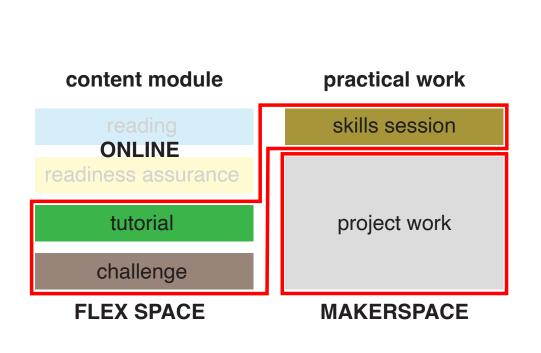


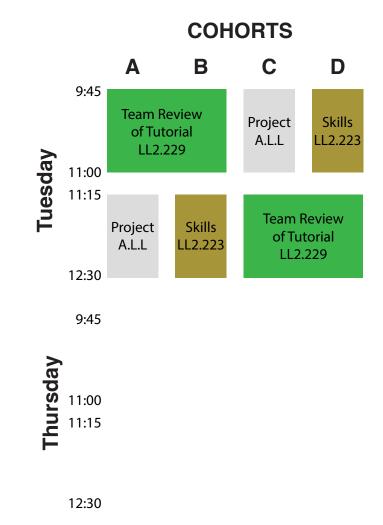


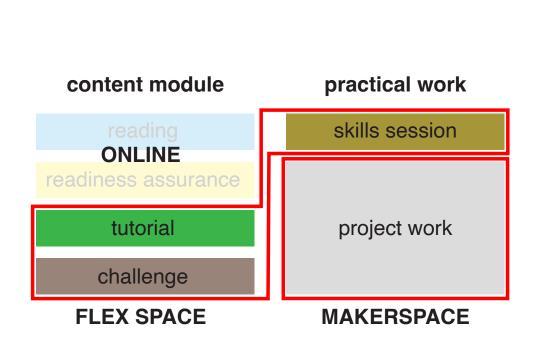


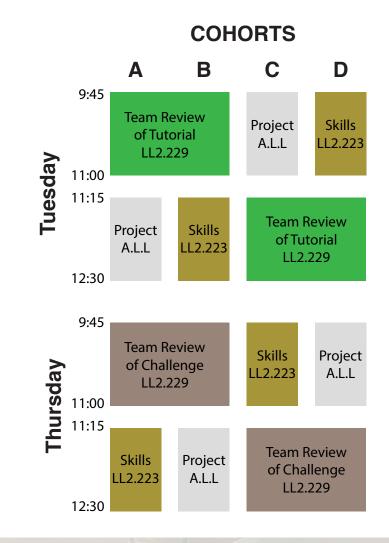
12:30













1 pandemic lessons

2 new normal

