Promoting self-directed learning in a remote teaching setting





Promoting self-directed learning in a remote teaching setting









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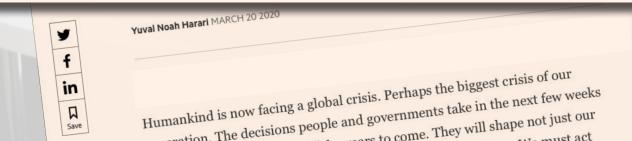
This storm will pass. But the choices we make now could change our lives for years to come

Yuval Noah Harari MARCH 20 2020

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

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

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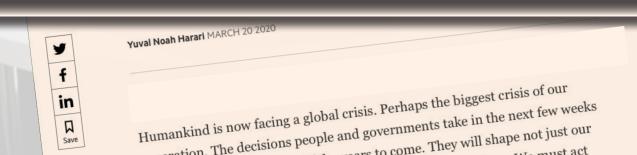
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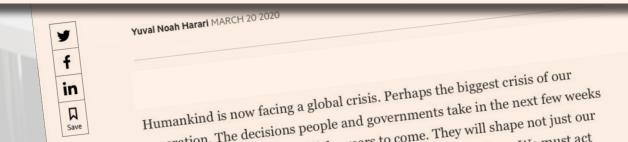




Many short-term emergency measures will become a fixture of life. That is the nature of emergencies. They fast-forward historical processes. Decisions that in normal times could take years of deliberation are passed in a matter of hours. Immature and even dangerous technologies are pressed into

Will remote 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.



tire countri



America's great remote-learning experiment: TEACHING & CLASSROOM What surveys of teachers and parents tell us about how it went

By Matt Barnum and Claire Bryan | Jun 26, 2020, 12:18pm EDT



wing America's schools underwent an unprecedented experiment: tens of

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HIGHER EDUCATION How higher education leaders tried to stave off disaster in 2020







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

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Remote Learning Is a Bad Joke

Latest

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

Emily Gould

Author and essayist



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Remote learning has been a disaster and it can't continue

Randy Feldman

Published 5:30 a.m. ET Jun. 9, 2020

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Perspective. Few public policy issues are about one's own personal predisposition to live with risk and uncertainty than how we approach the coronavirus pandemic in the coming months. Scientific facts notwithstanding, how each of us evaluates the probability of contracting or spreading coronavirus





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THE NATIONAL INTEREST | OCT. 7, 2020

Remote Learning Is a Catastrophe. Teacl Share the Blame.

e By Jonathan Chait CC



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COLUMN | HIGHER EDUCATION

Mewsletter Newsletter Why Emergency Online Learning Got Low Grades From Many College Students By Robert Ubell (Columnist) Mar 8, 2021





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 gaps. Catching up in the fall won't be easy.



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Online distance learning for schools and colleges has been a great disaster.

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 gaps. Catching up in the fall won't be easy.



Was it really that bad?

he Coronavirus Outbreak

Research Shows Students Falling Months Behind During Virus Disruptions

The abrupt switch to remote learning wiped out academic gains

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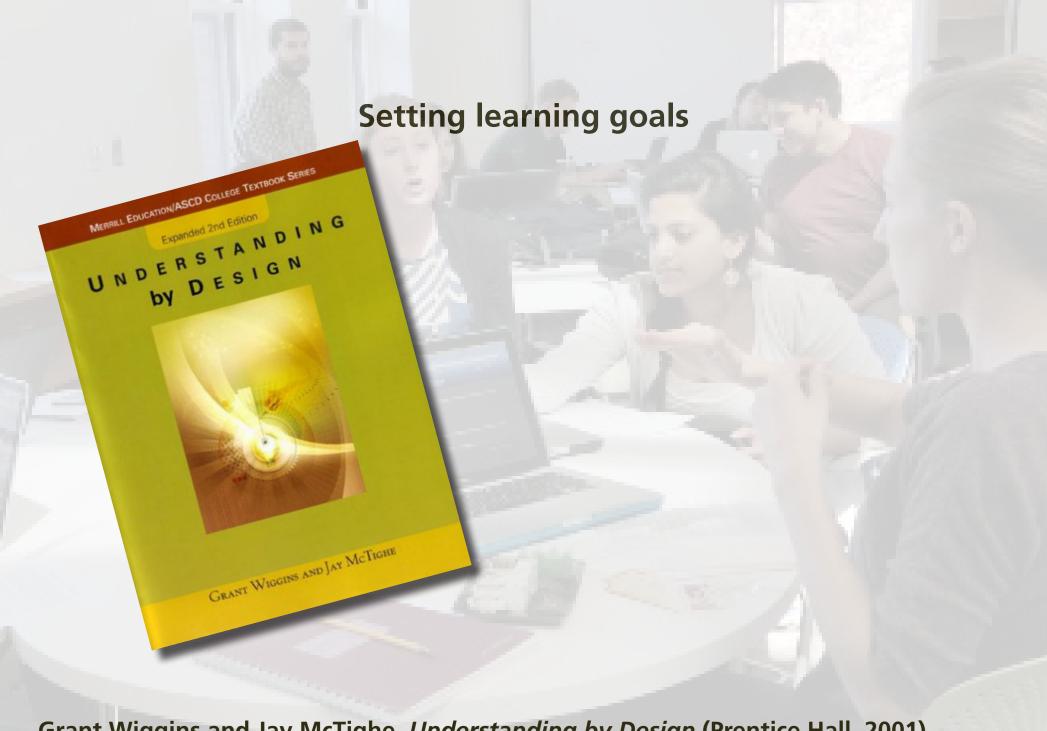


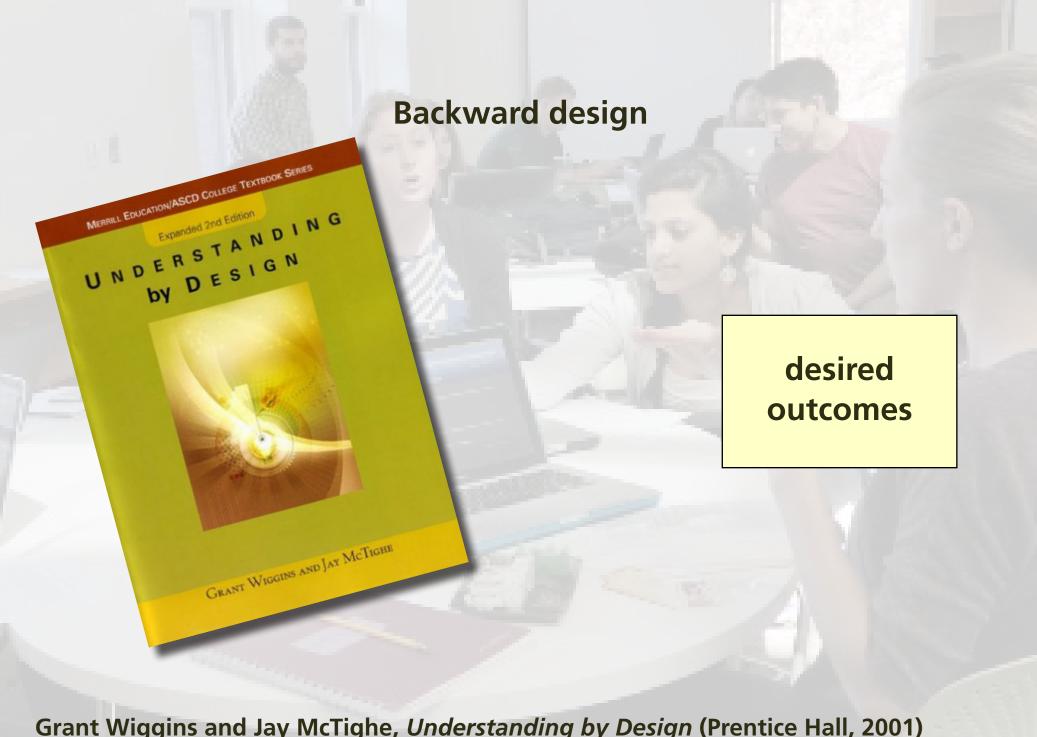


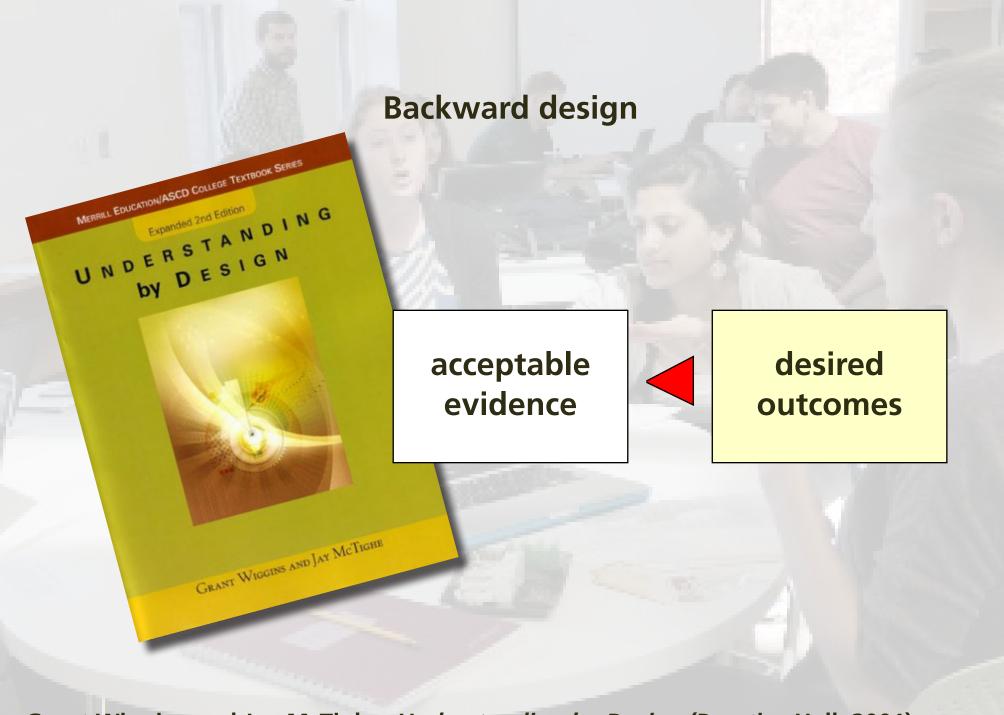


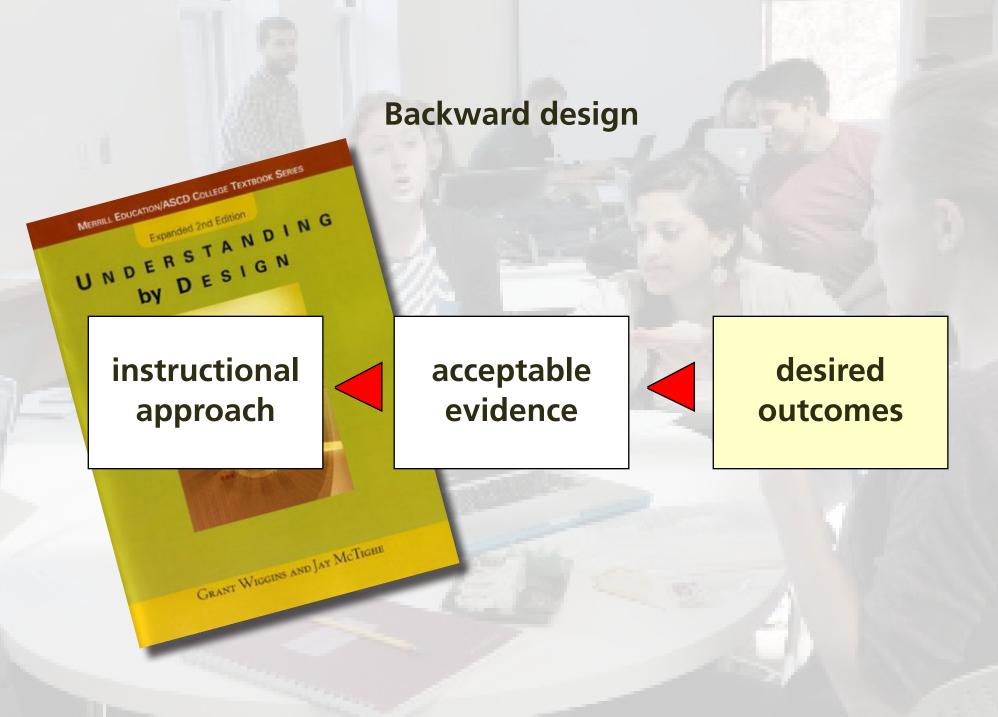












Course goals

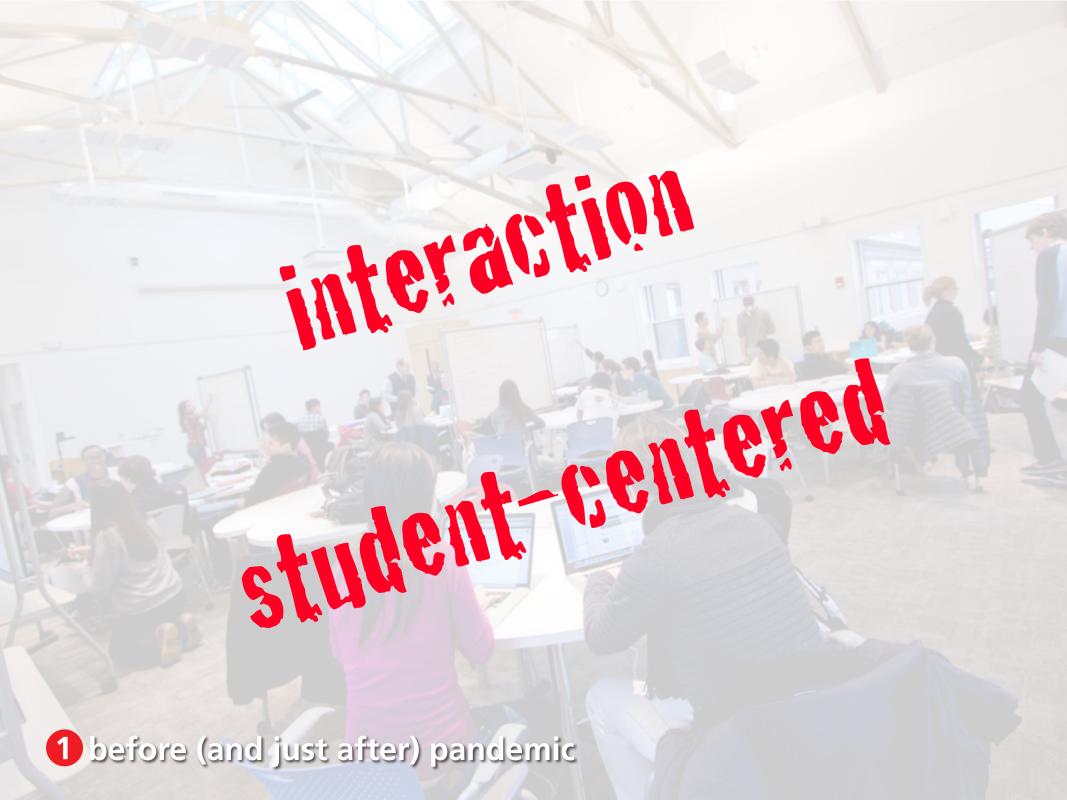
- self-directed learning
- content mastery
- team work
- professionalism

1 before (and just after) pandemic

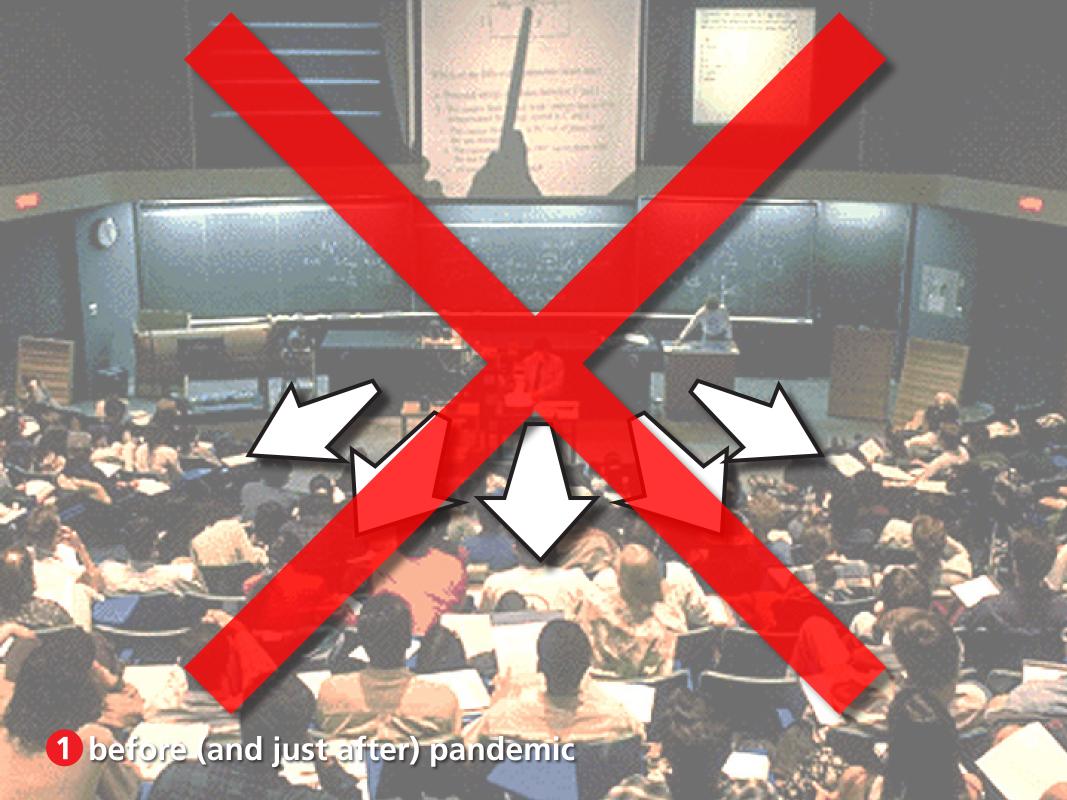












Solution

turn out-of-class component also into a social interaction!

1 before (and just after) pandemic

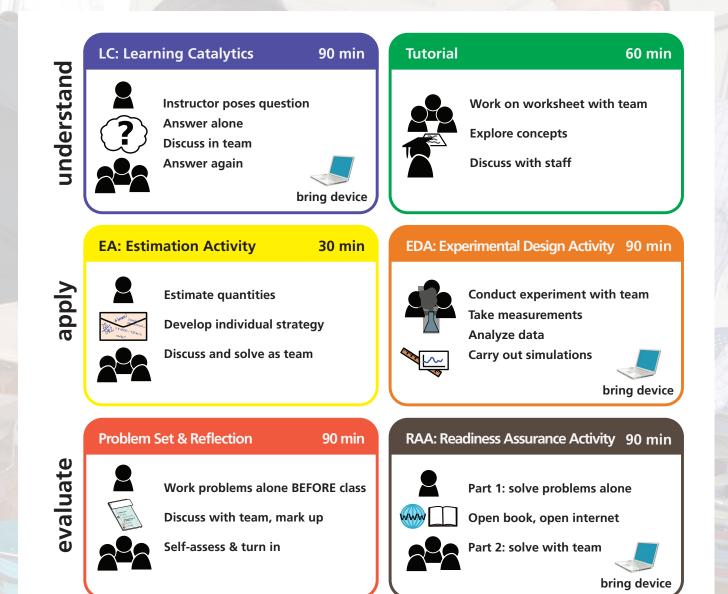


every student prepared for every class

1 before (and just after) pandemic

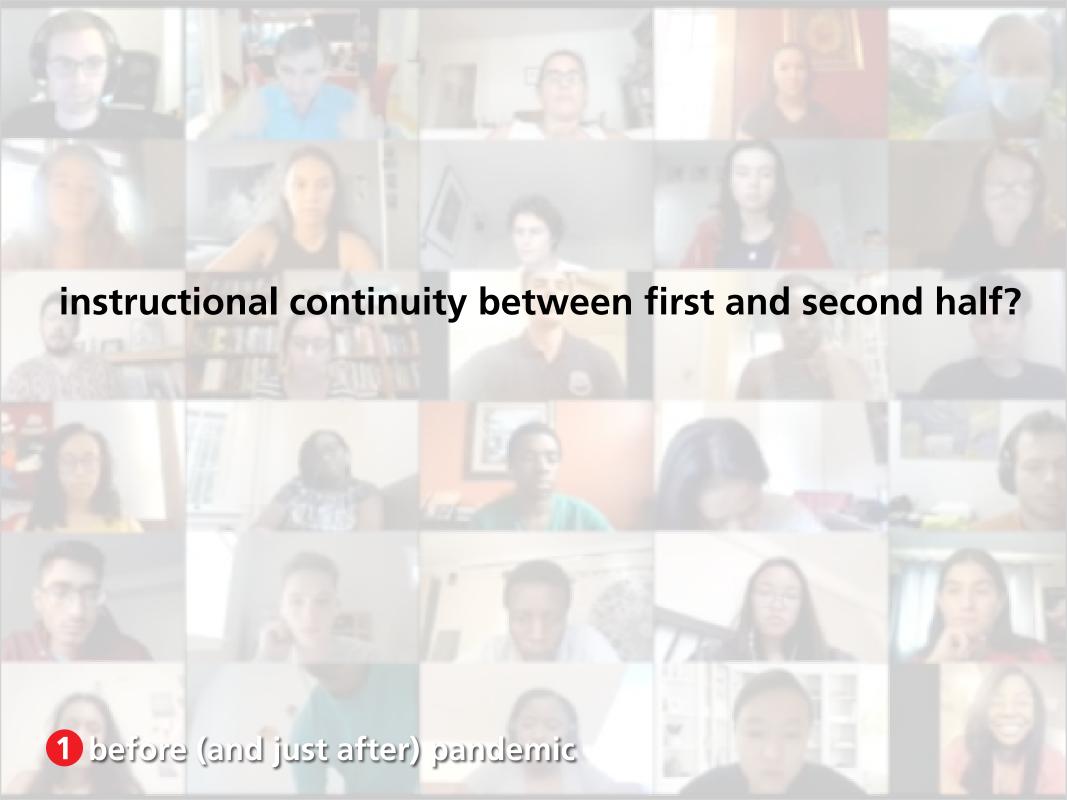


blend of 6 scaffolded "best practices"









instructional continuity between first and second half? 86% agreed 1 before (and just after) pandemic



"How can I transfer online what I do in the classroom?"

"How can I transfer online what I do in the classroom?"

(challenge)

"How can I transfer onling what I do in the classroom?"

(chare)

"How can I transfer onling what I do in the classroom?"

(chare)

"What can I do online that I cannot do in the classroom?"

(opportunity)

Changes implemented

Minimize sync/instructor-paced

Personalize instruction

Changes implemented

Minimize sync/instructor-paced

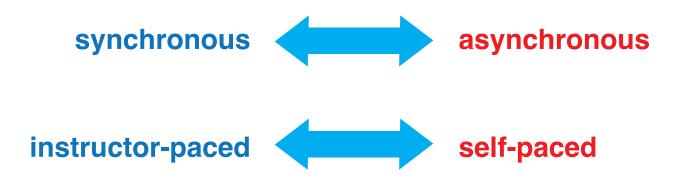
Personalize instruction

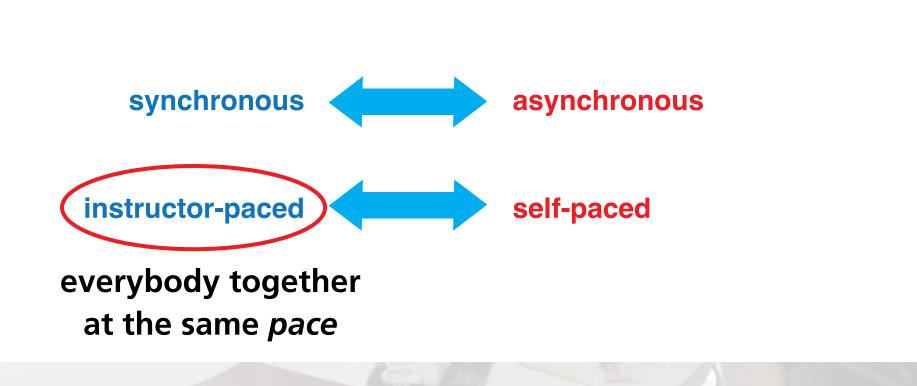
Specifications Grading





everybody together at the same *time*







synchronous



asynchronous

instructor-paced



self-paced



synchronous asynchronous

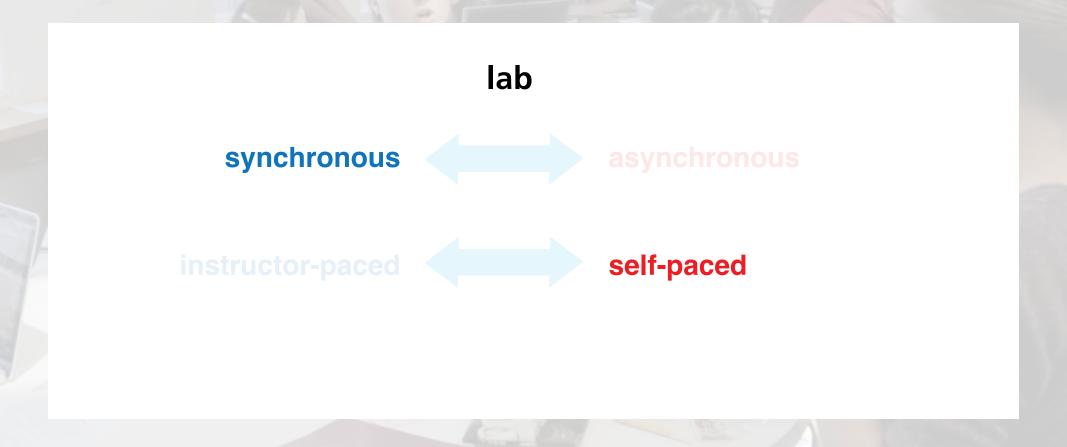
instructor-paced

self-paced





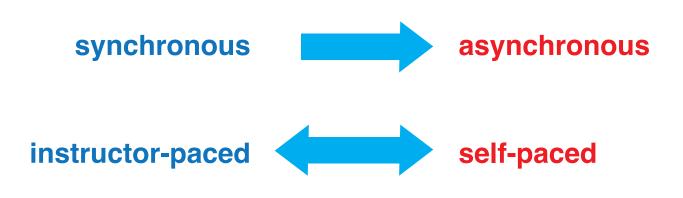


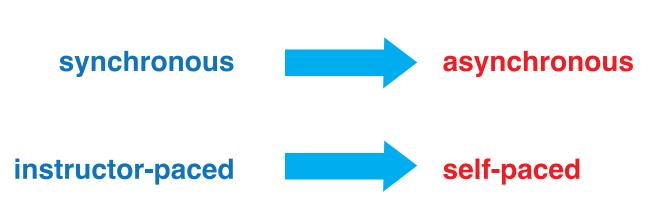


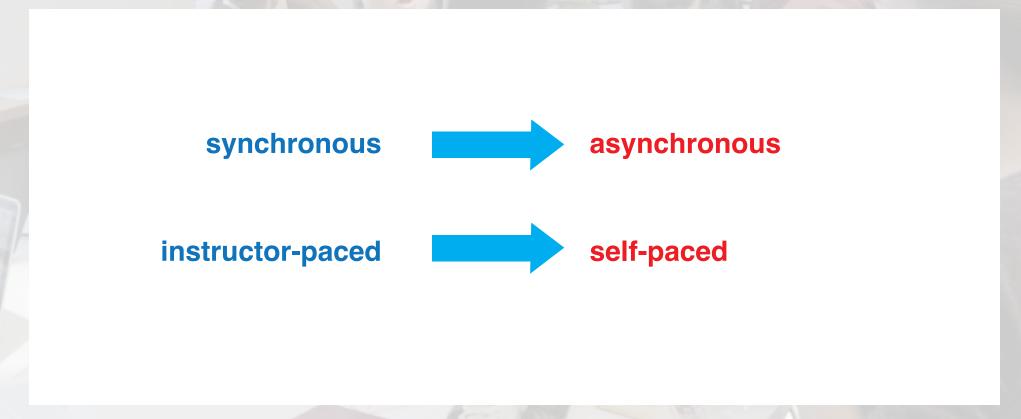


synchronous asynchronous

instructor-paced self-paced







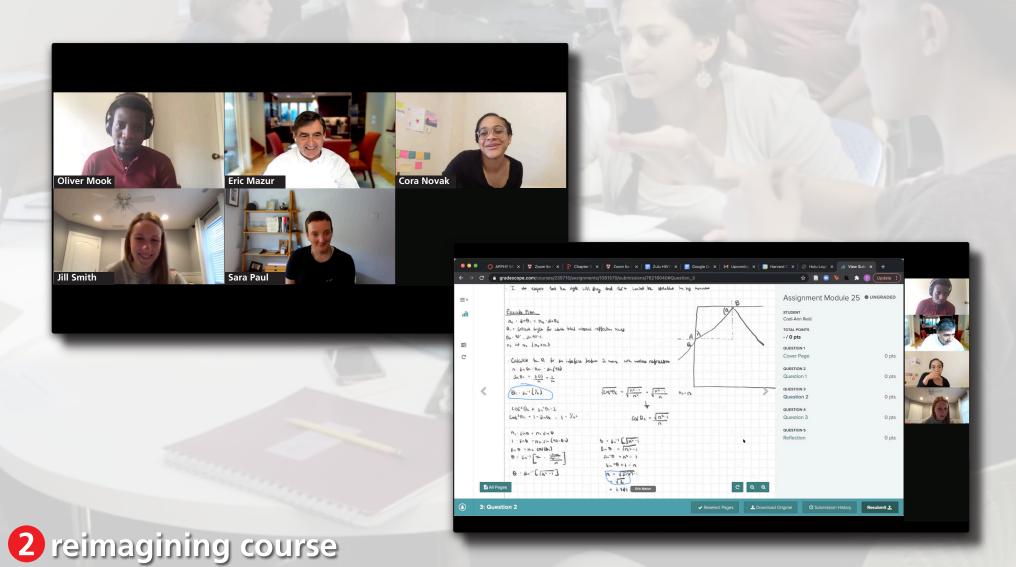
more time to help students where it really matters!

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

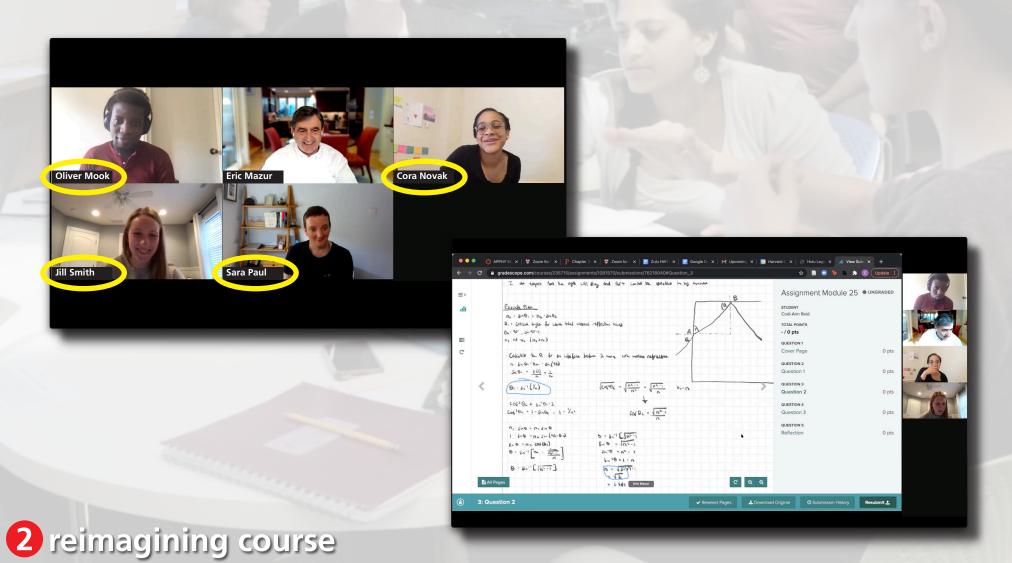
80 students in one room → 20 rooms with 4 students



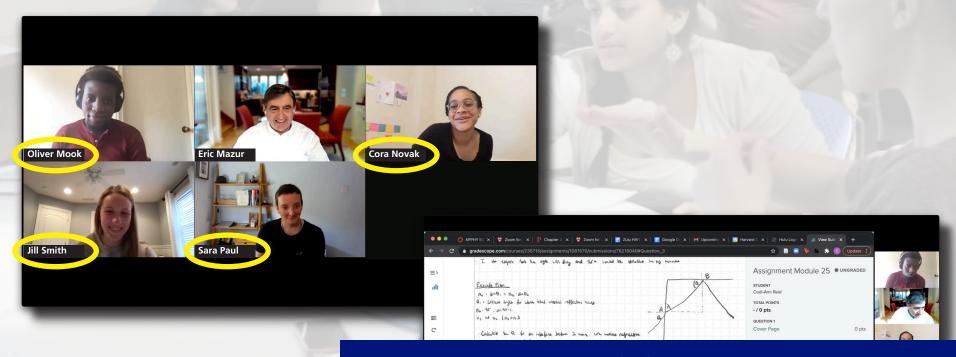
every student on front row



every student on front row & address each by their name



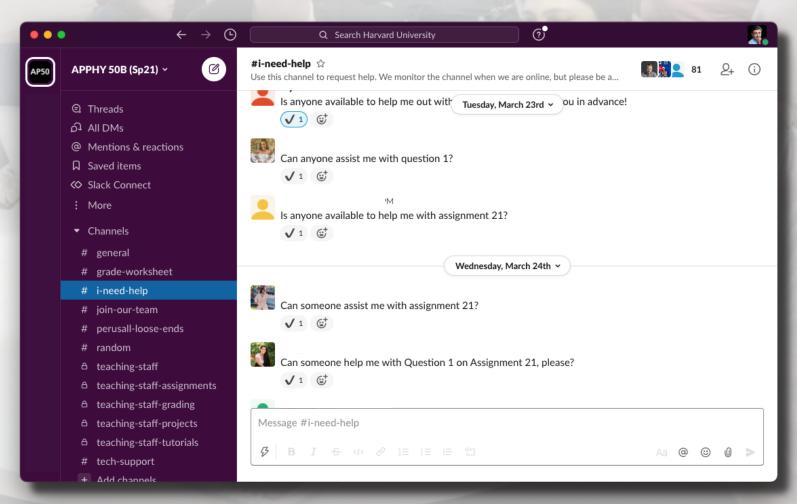
every student on front row & address each by their name



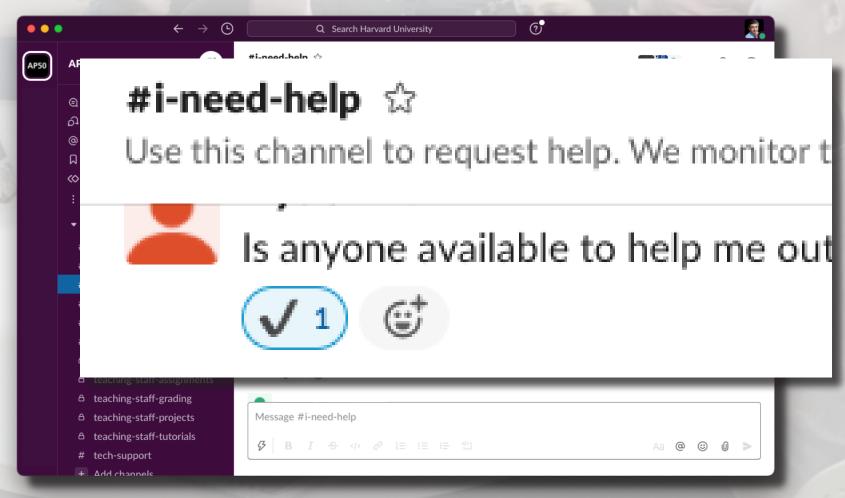
Shuffle teams



Use Slack to provide (nearly) continuous support

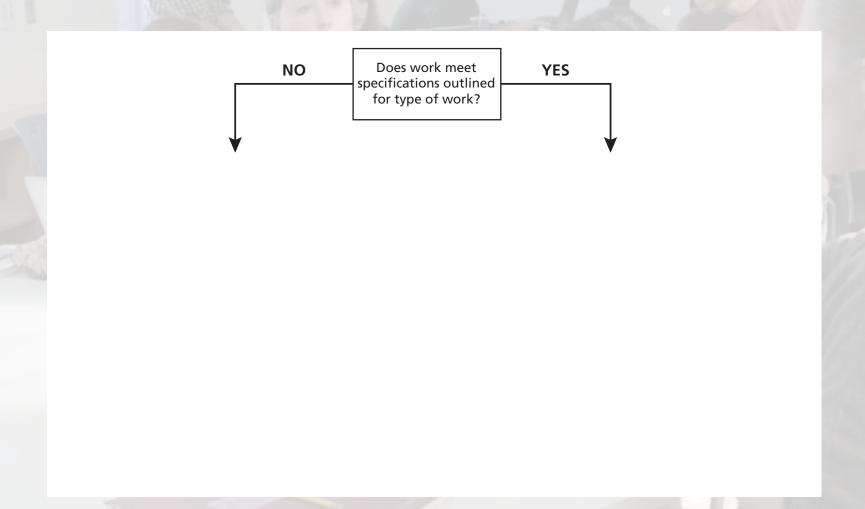


Use Slack to provide (nearly) continuous support

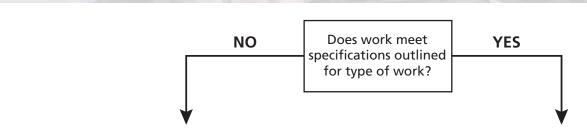


Specifications grading

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

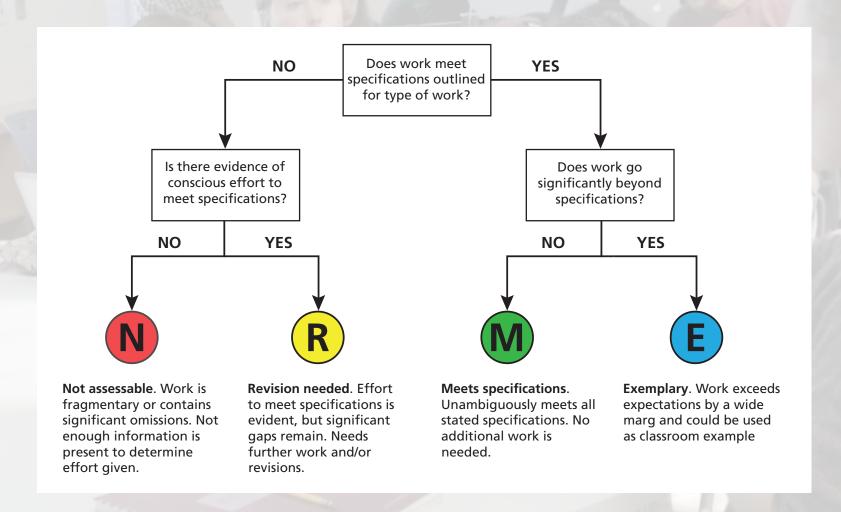


Inside Higher Ed, Yes, Virginia, there is a better way to grade

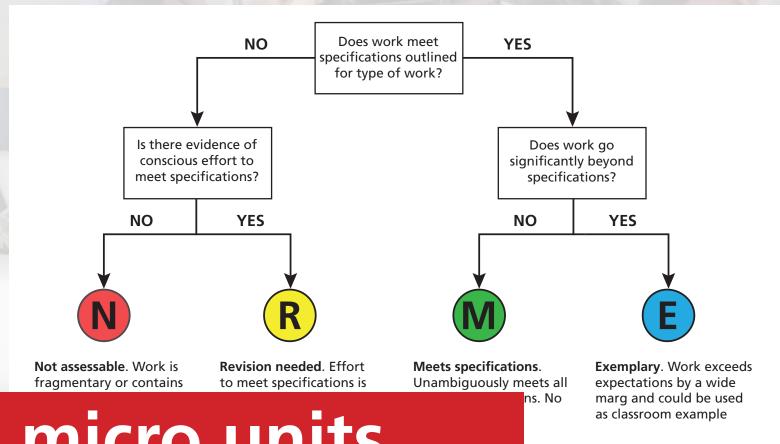


if specifications not met, can try again

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

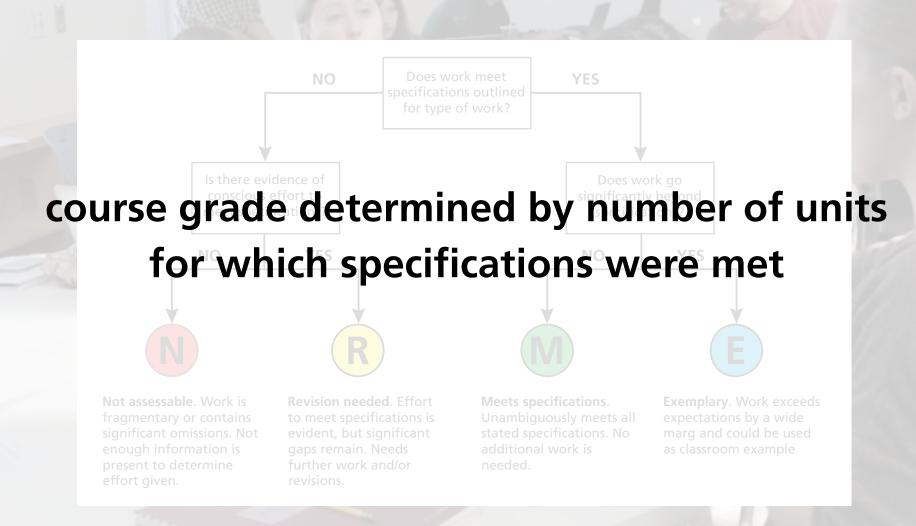


Inside Higher Ed, Yes, Virginia, there is a better way to grade

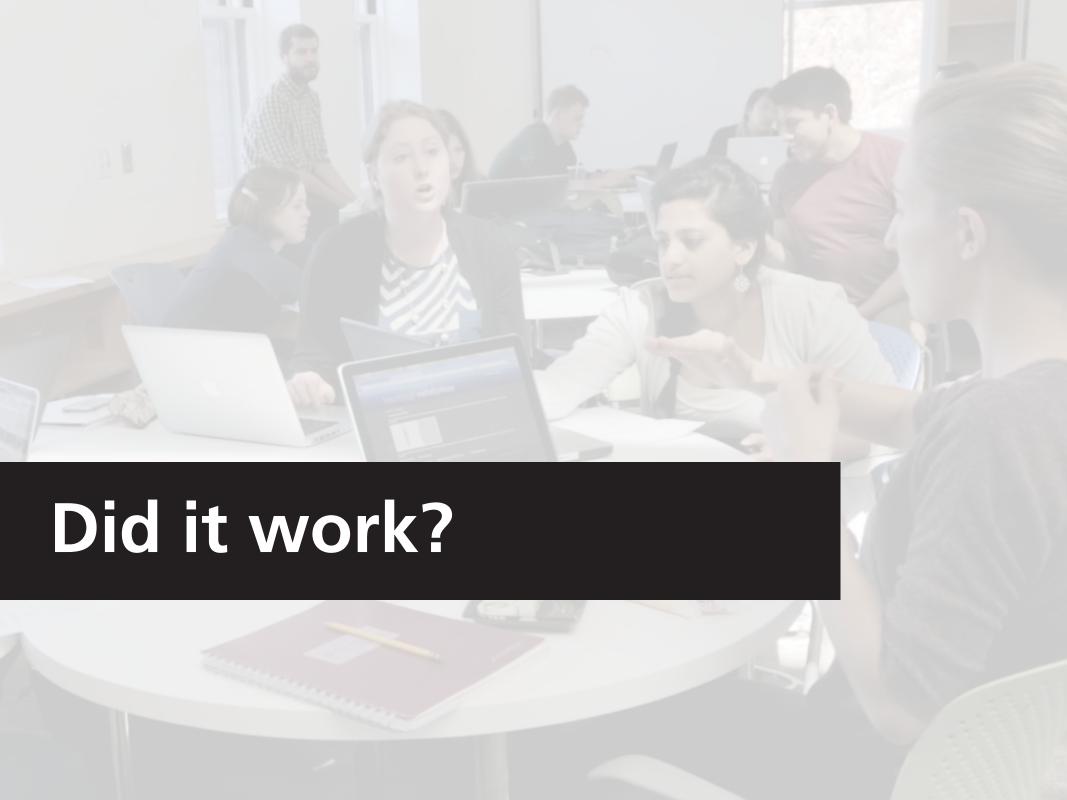


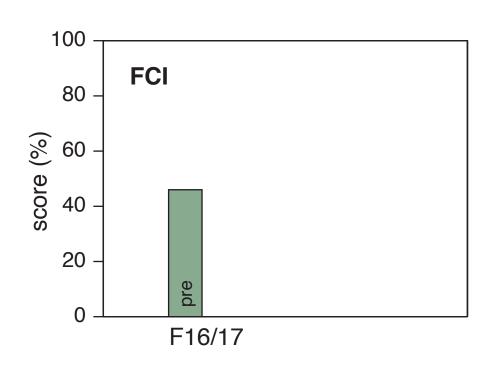
68 micro units

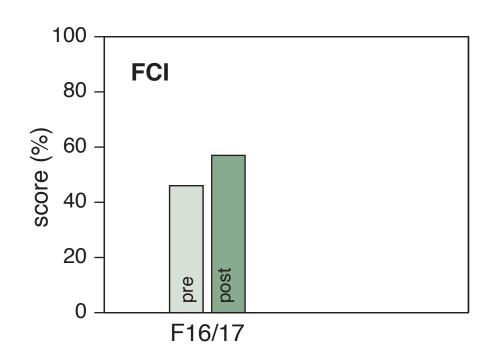
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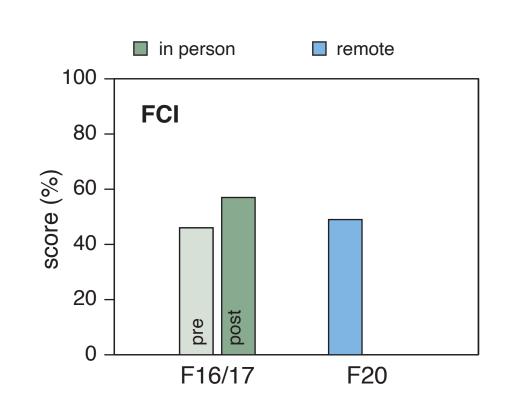


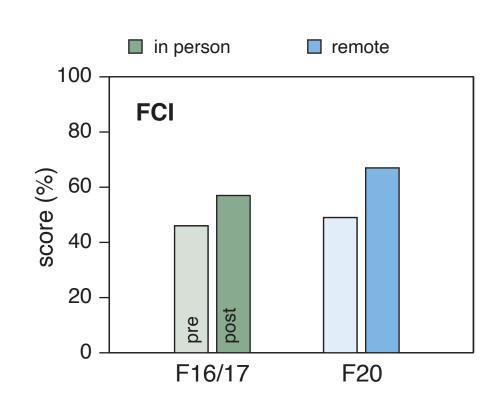
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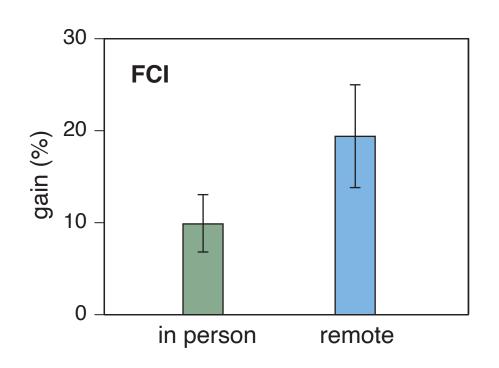




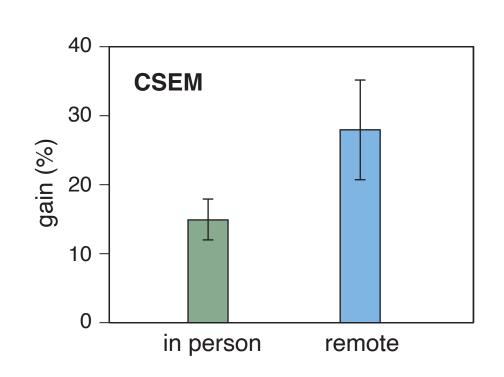


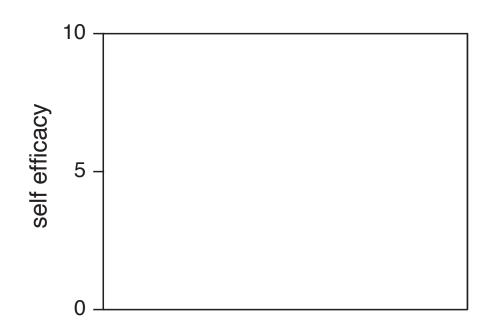




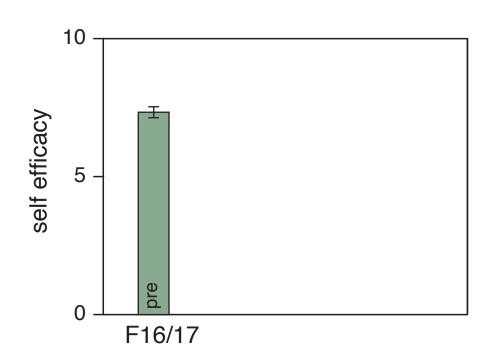


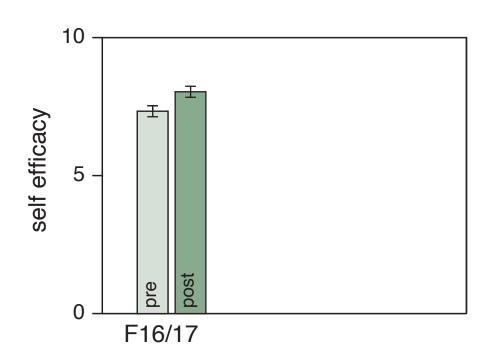
Spring Content Learning Gain



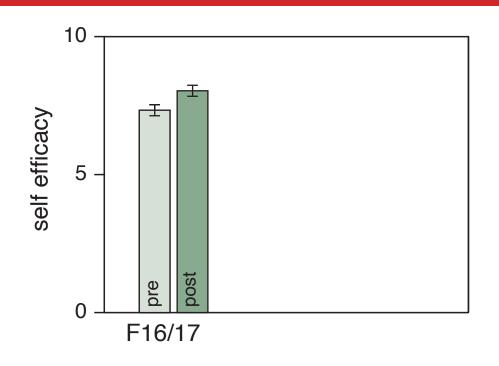


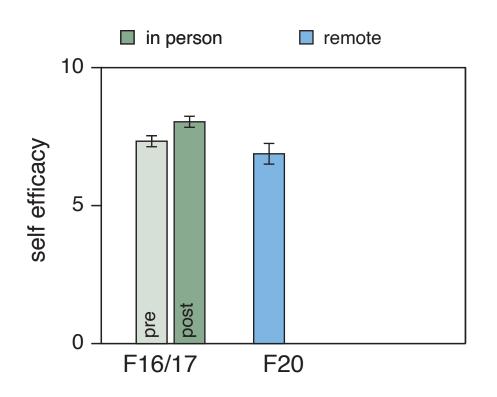
belief in ability to succeed in a certain domain

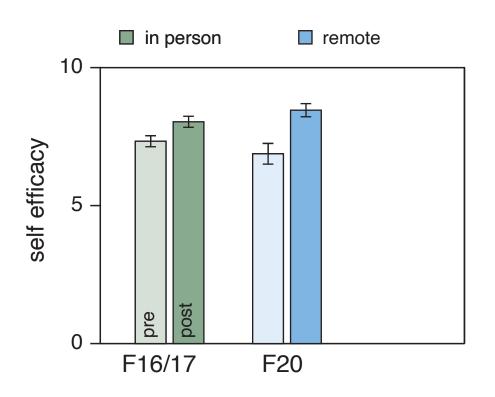


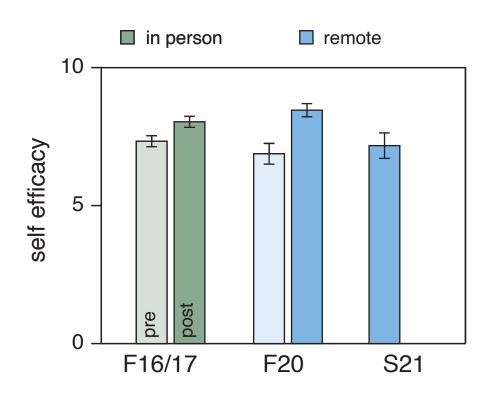


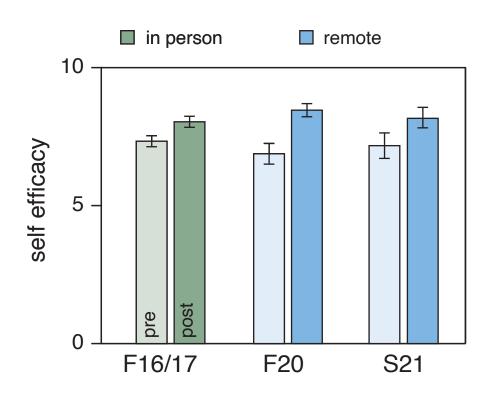
SE down in lecture courses!

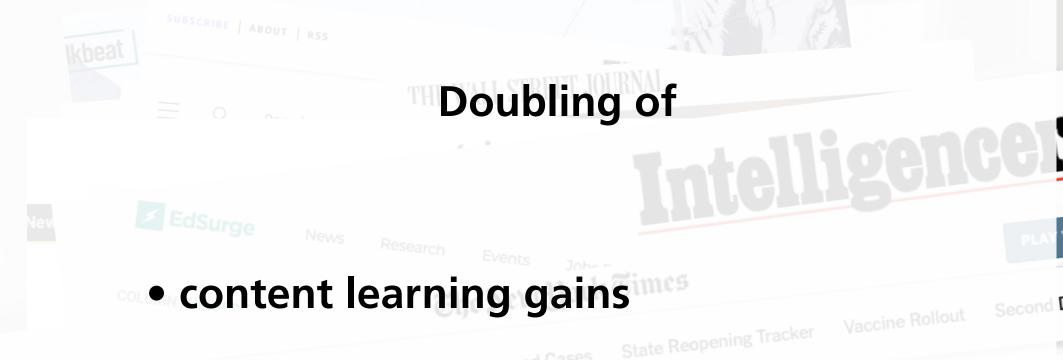












• physics self-efficacy gains

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 gaps. Catching up in the fall won't be easy.





What do students say?

e Coronavirus outbreak

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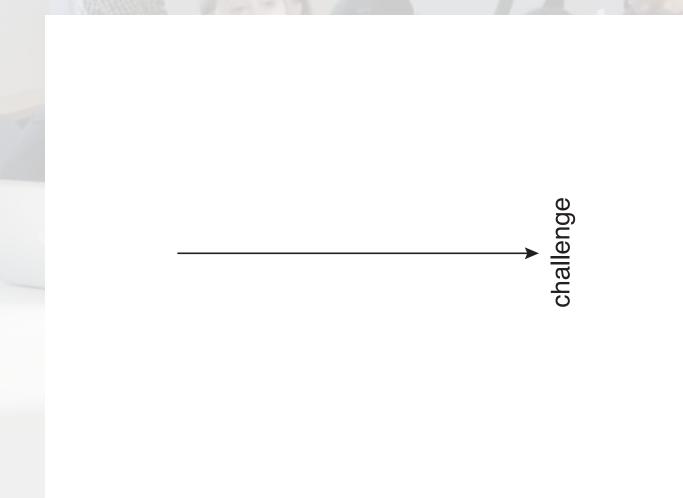
3 results

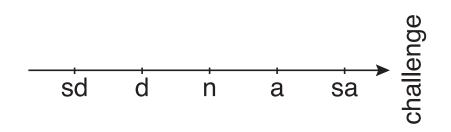
Agile Feedback Survey (Talbert)

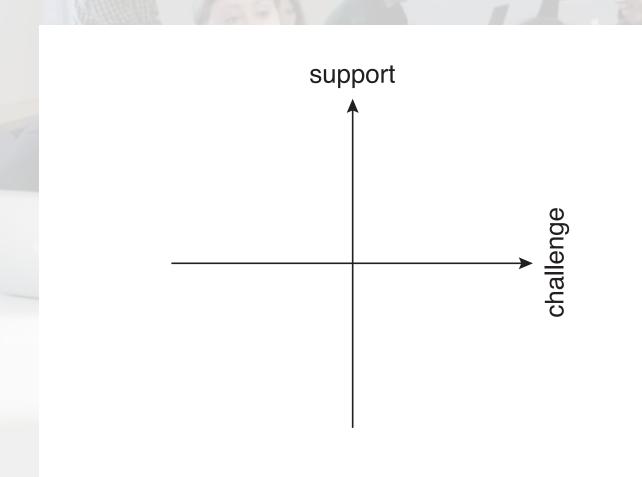
- 1. I was challenged intellectually
- 2. I had plenty of support
- 3. I am closer to mastering the ideas of the course now
- 4. I made progress because of my own efforts and choices
- 5. I felt I was part of a community of learners

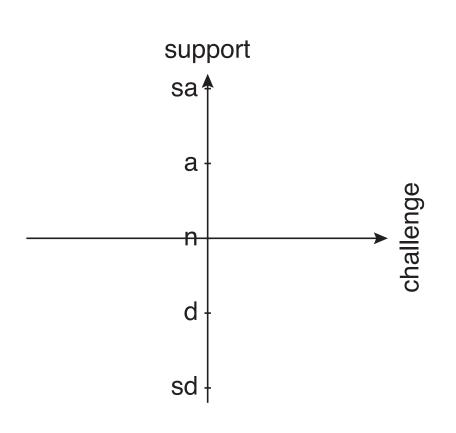
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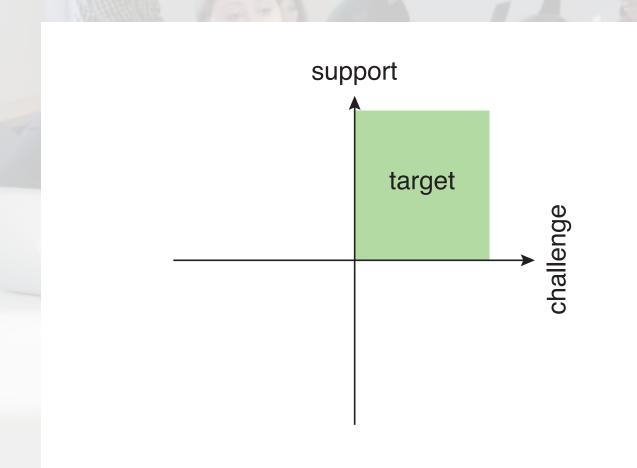
- 1. I was challenged intellectually (challenge)
- 2. I had plenty of support (support)
- 3. I am closer to mastering the ideas of the course now
- 4. I made progress because of my own efforts and choices
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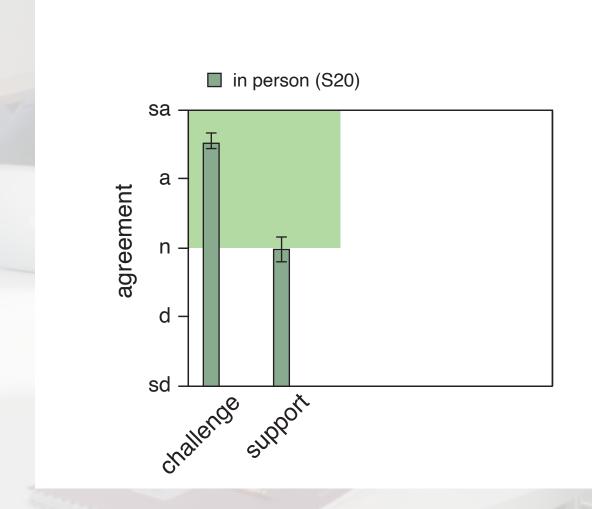


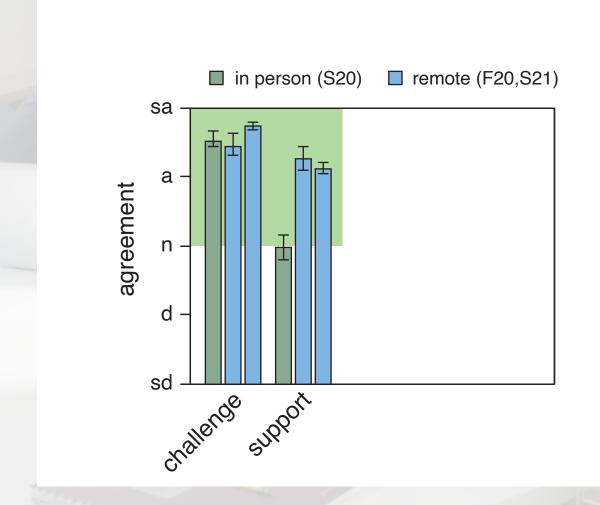




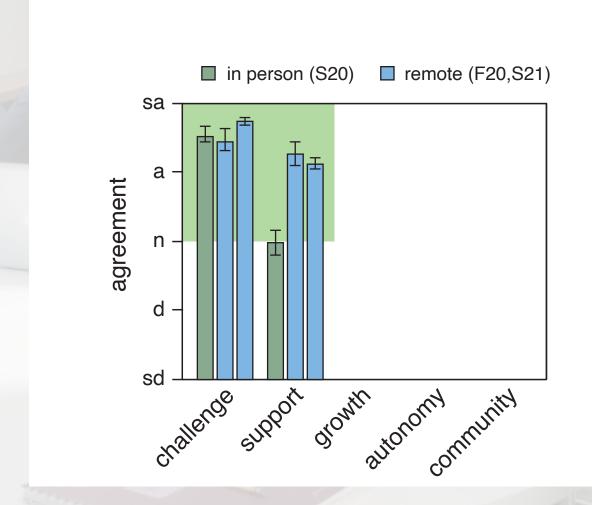




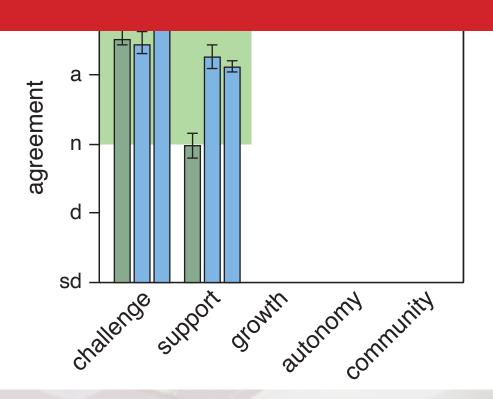


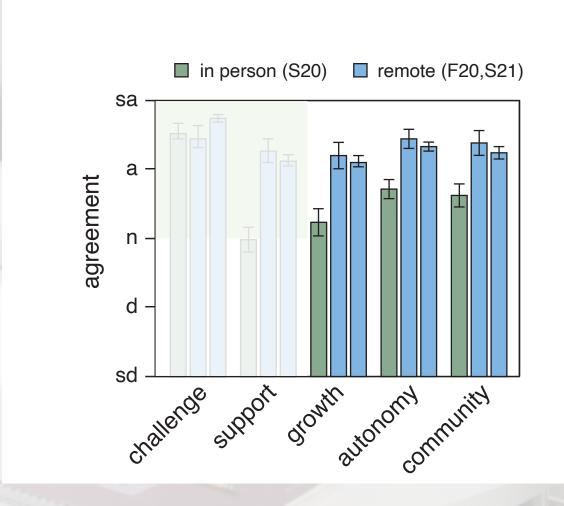


- 1. I was challenged intellectually (challenge)
- 2. I had plenty of support (support)
- 3. I am closer to mastering the ideas of the course now (growth)
- 4. I made progress because of my own efforts and choices (auton.)
- 5. I felt I was part of a community of learners (relatedness)



What do you predict?







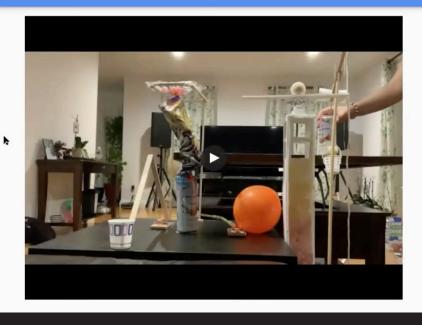
"...this will be my very first physics class that I will have ever taken in my life,

"...this will be my very first physics class that I will have ever taken in my life, so that is both equally exciting

"...this will be my very first physics class that I will have ever taken in my life, so that is both equally exciting and also a bit anxiety-inducing

"...this will be my very first physics class that I will have ever taken in my life, so that is both equally exciting and also a bit anxiety-inducing, given that I have never felt too confident in my mathematical abilities..."

Our machine....





"Physics seems less "scary" to me now, because





"Physics seems less "scary" to me now, because of the format of this course. I have really severe testing anxiety, but having no 'sit-down exams' has allowed me to actually learn physics because I want to, not because I need to dowell on an exam..."

"...this semester is the first time — since high school — that I've been able to remember why I even wanted to go to college (to learn for learning's sake)

"...this semester is the first time — since high school — that I've been able to remember why I even wanted to go to college (to learn for learning's sake) ... over the past 3 years it's mostly just been about how to scrape by academically and not let my testing anxiety ruin my GPA.

"...this semester is the first time — since high school — that I've been able to remember why I even wanted to go to college (to learn for learning's sake) ... over the past 3 years it's mostly just been about how to scrape by academically and not let my testing anxiety ruin my GPA. I love this class."



"this course is amazing because the goal is learning, trying to solve hard problems, and learning from mistakes. I enjoyed the struggle of facing hard problems whether I solved them correctly or not."

"favorite course at Harvard"

"favorite course at Harvard"

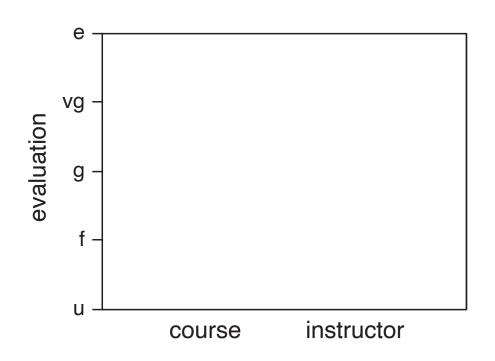
"the critical thinking-focused learning from the class has been truly something that has changed the way I view the way I learn and approach problems"

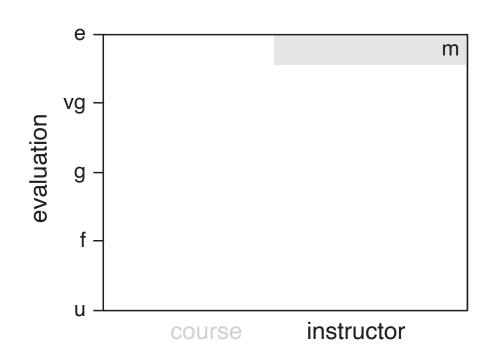
"favorite course at Harvard"

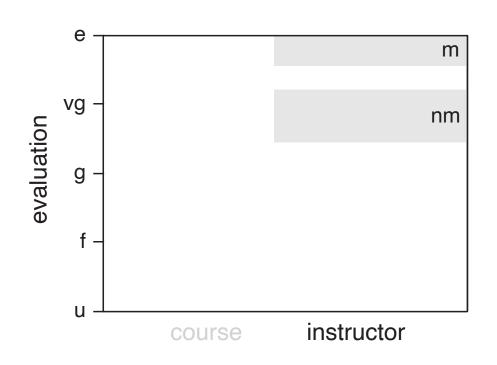
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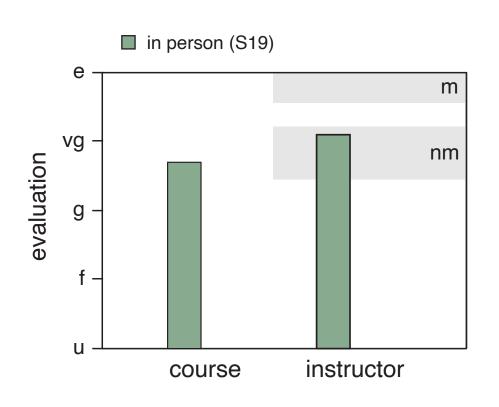
"I wish my other classes had a similar structure"

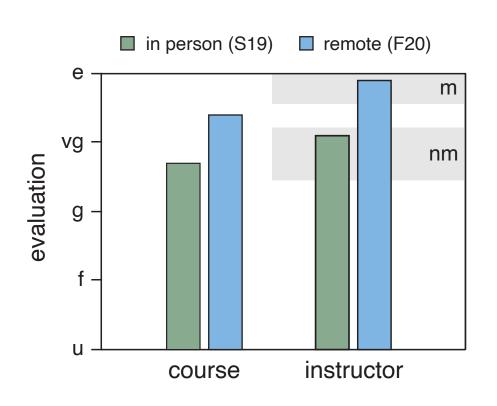


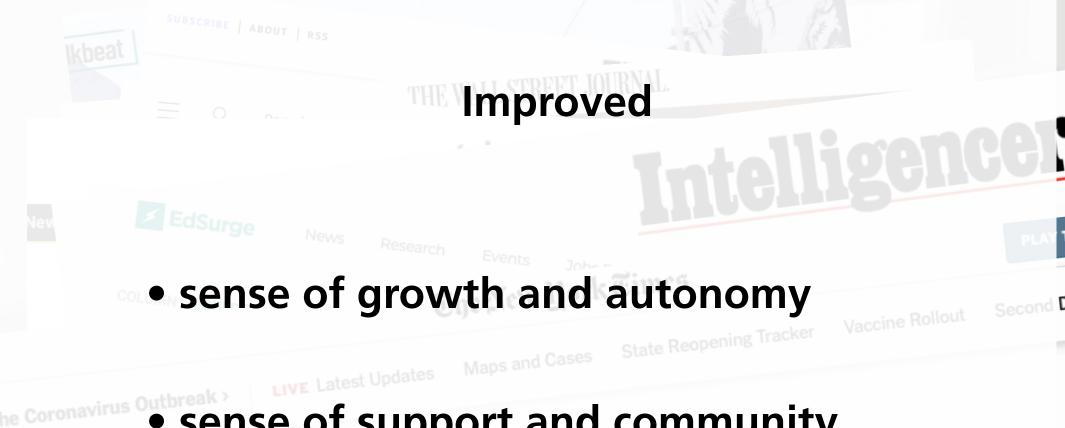












sense of support and community

• course evaluation Behind During Virus Disruptions

The abrupt switch to remote learning wiped out academic gains

Improved

- sense of growth and autonomy
- sense of support and community
- course evaluation Disruptions

Catching up in the fall won't be easy.

It worked for students too!



Remote/online can be better!

Vaccine Rollout

Cocond

he Coronavirus Outbreak >

LIVE Latest

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 gaps. Catching up in the fall won't be easy.

B results



I did my best teaching ever remotely!

Research Shows Students Falling Months Behind During Virus Disruptions

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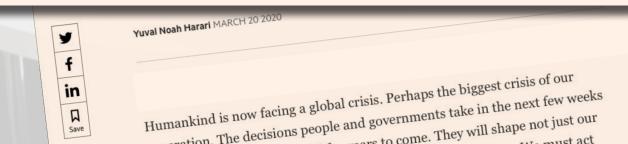




Many short-term emergency measures will become a fixture of life. That is the nature of emergencies. They fast-forward historical processes. Decisions that in normal times could take years of deliberation are passed in a matter of hours. Immature and even dangerous technologies are

Remote teaching may well 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.



tire

