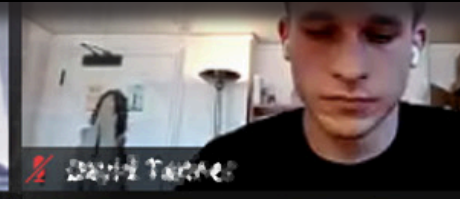
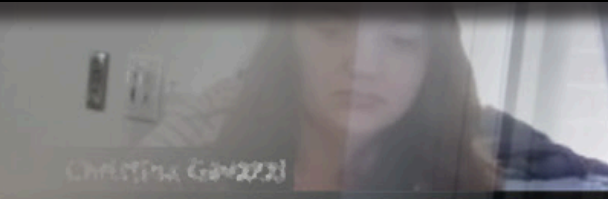


Flipping your class and never looking back



AVID at Victoria University
14 September 2021, Melbourne, Australia

Flipping your class and never looking back



@eric_mazur

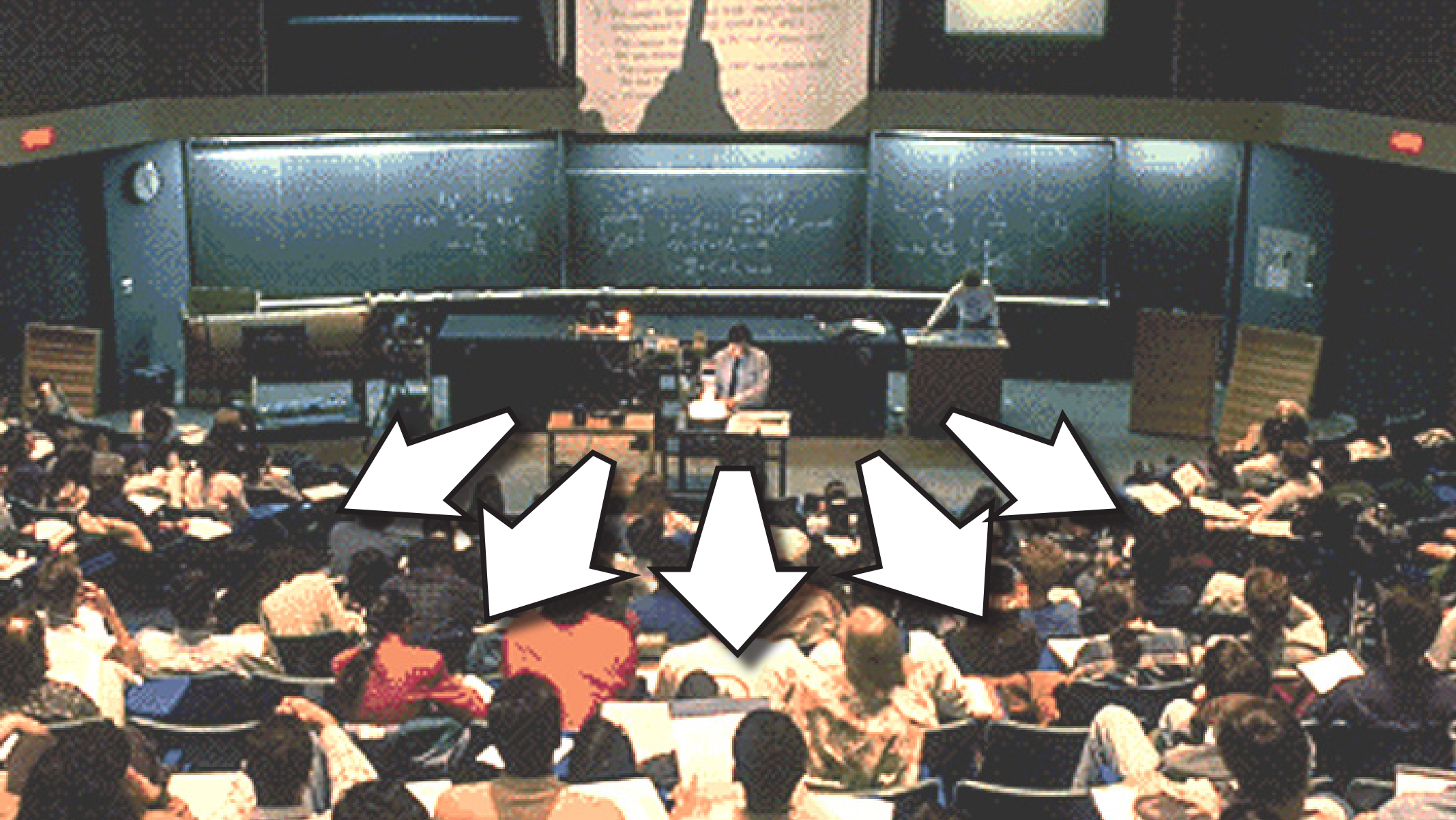
AVID at Victoria University
14 September 2021, Melbourne, Australia







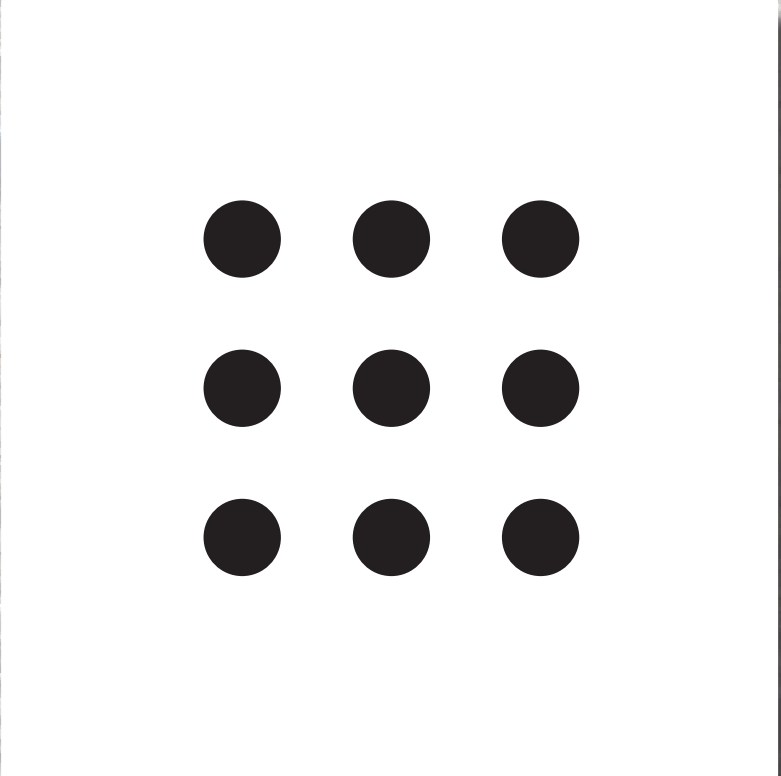
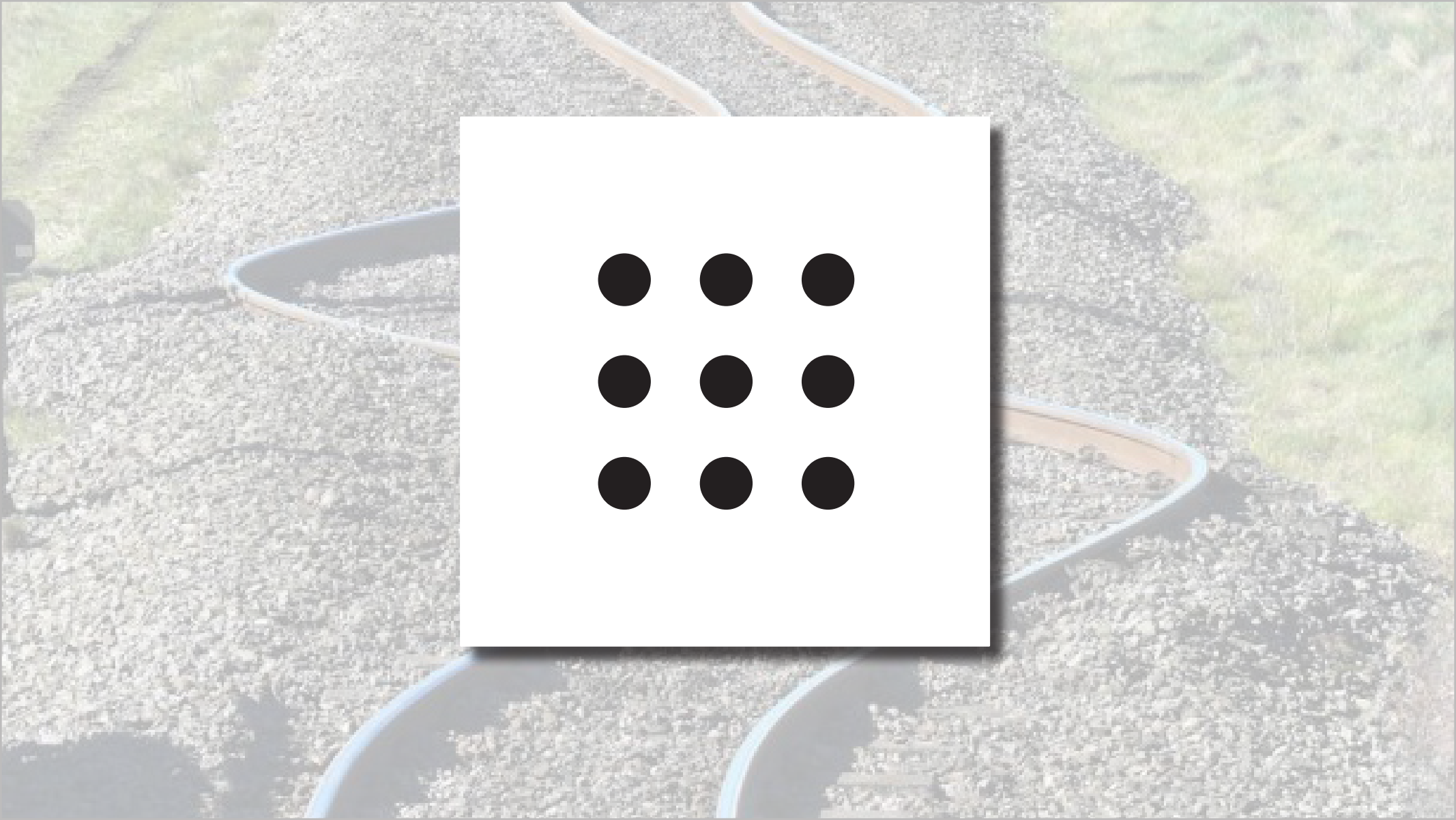


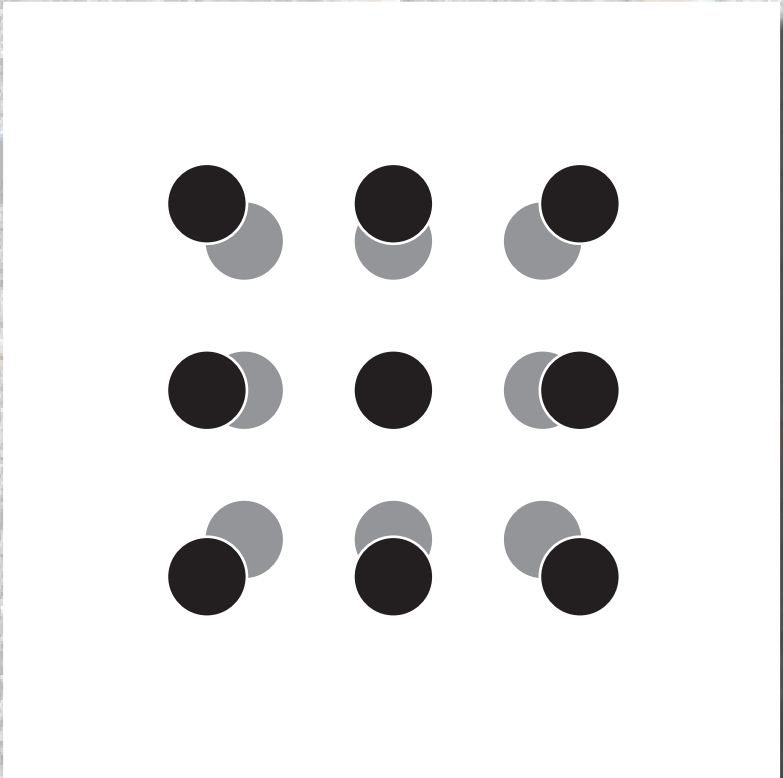


try something different?



thermal expansion



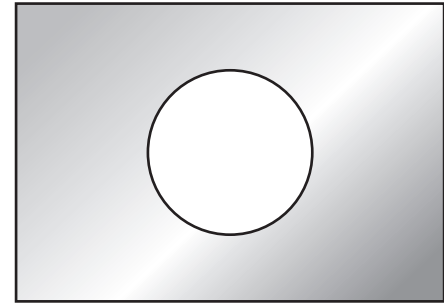


all of them!



Consider a rectangular metal plate with a circular hole in it.

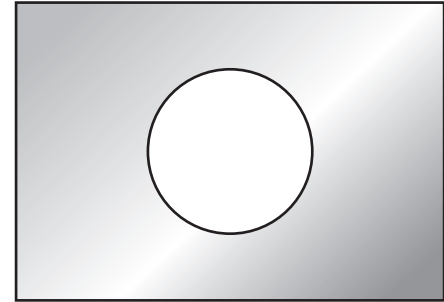
When the plate is uniformly heated, the diameter of the hole



Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

- 1. increases.**
- 2. stays the same.**
- 3. decreases.**



Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

1. increases.
2. stays the same.
3. decreases.

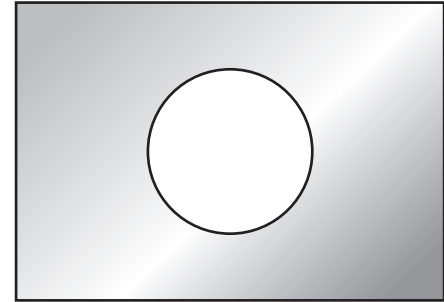


you got all fired up!

Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

- 1. increases.**
- 2. stays the same.**
- 3. decreases.**



Before I tell you the answer, let's analyze what happened.

Before I tell you the answer, let's analyze what happened.

You...

Before I tell you the answer, let's analyze what happened.

You...

1. made a commitment

Before I tell you the answer, let's analyze what happened.

You...

- 1. made a commitment**
- 2. externalized your answer**

Before I tell you the answer, let's analyze what happened.

You...

- 1. made a commitment**
- 2. externalized your answer**
- 3. moved from the answer/fact to reasoning**

Before I tell you the answer, let's analyze what happened.

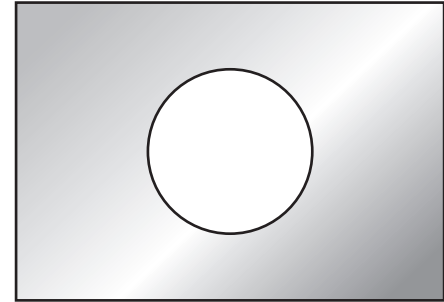
You...

- 1. made a commitment**
- 2. externalized your answer**
- 3. moved from the answer/fact to reasoning**
- 4. became emotionally invested in the learning process**

Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

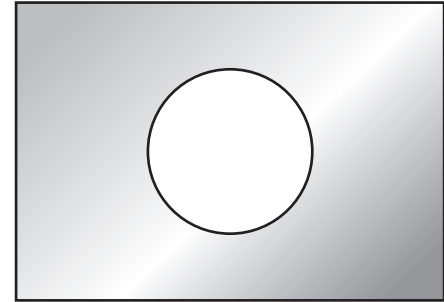
- 1. increases.**
- 2. stays the same.**
- 3. decreases.**



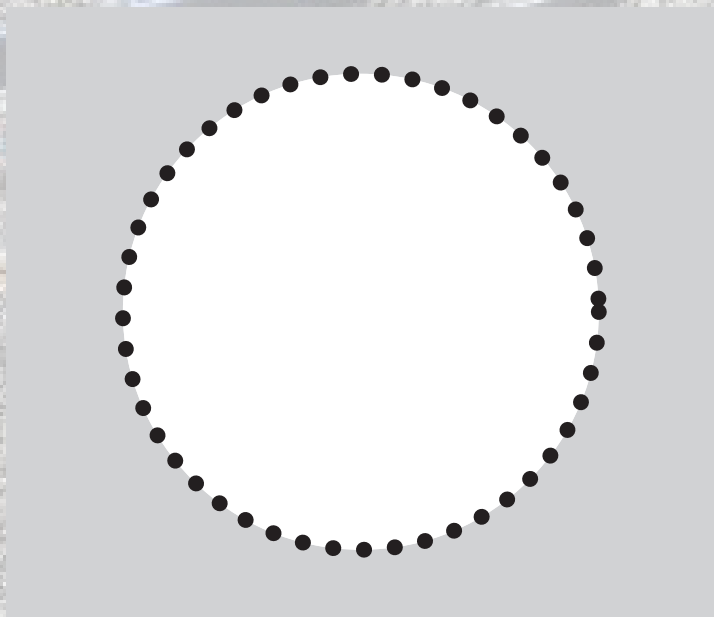
Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

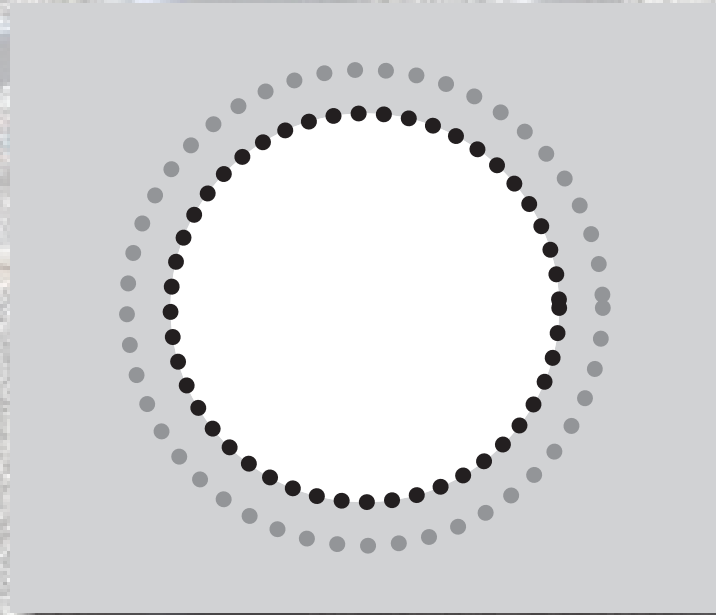
- 1. increases. ✓**
2. stays the same.
3. decreases.



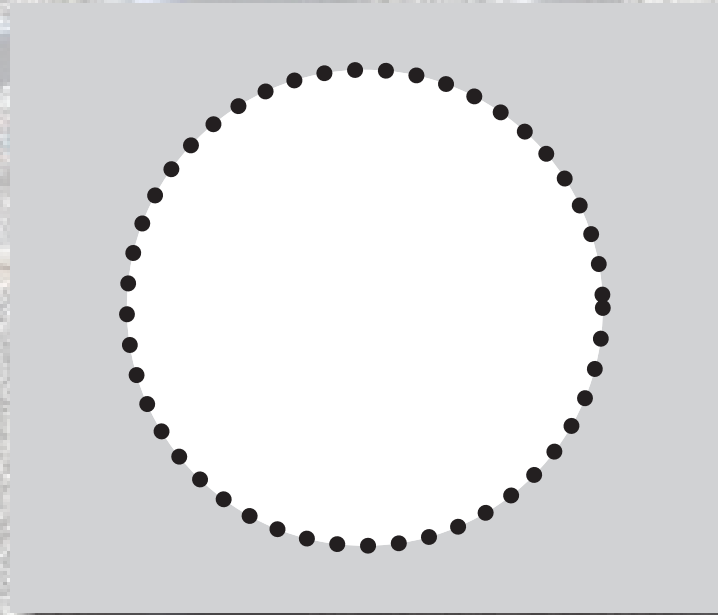
consider atoms at rim of hole



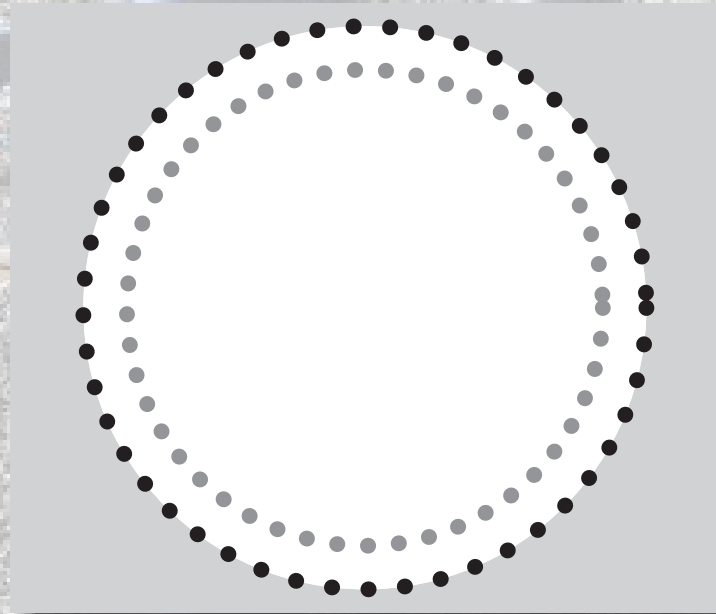
consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole

you won't forget this



Back to top

TION

Peer

The word 'Peer' is written in a large, white, rounded sans-serif font with a light blue outline. The first 'e' is enclosed in a dashed yellow circle with a yellow arrow pointing clockwise. The second 'e' is also enclosed in a dashed yellow circle with a yellow arrow pointing clockwise. A dotted blue line starts from the bottom right of the second 'e' and extends towards the bottom right corner of the image.

TION

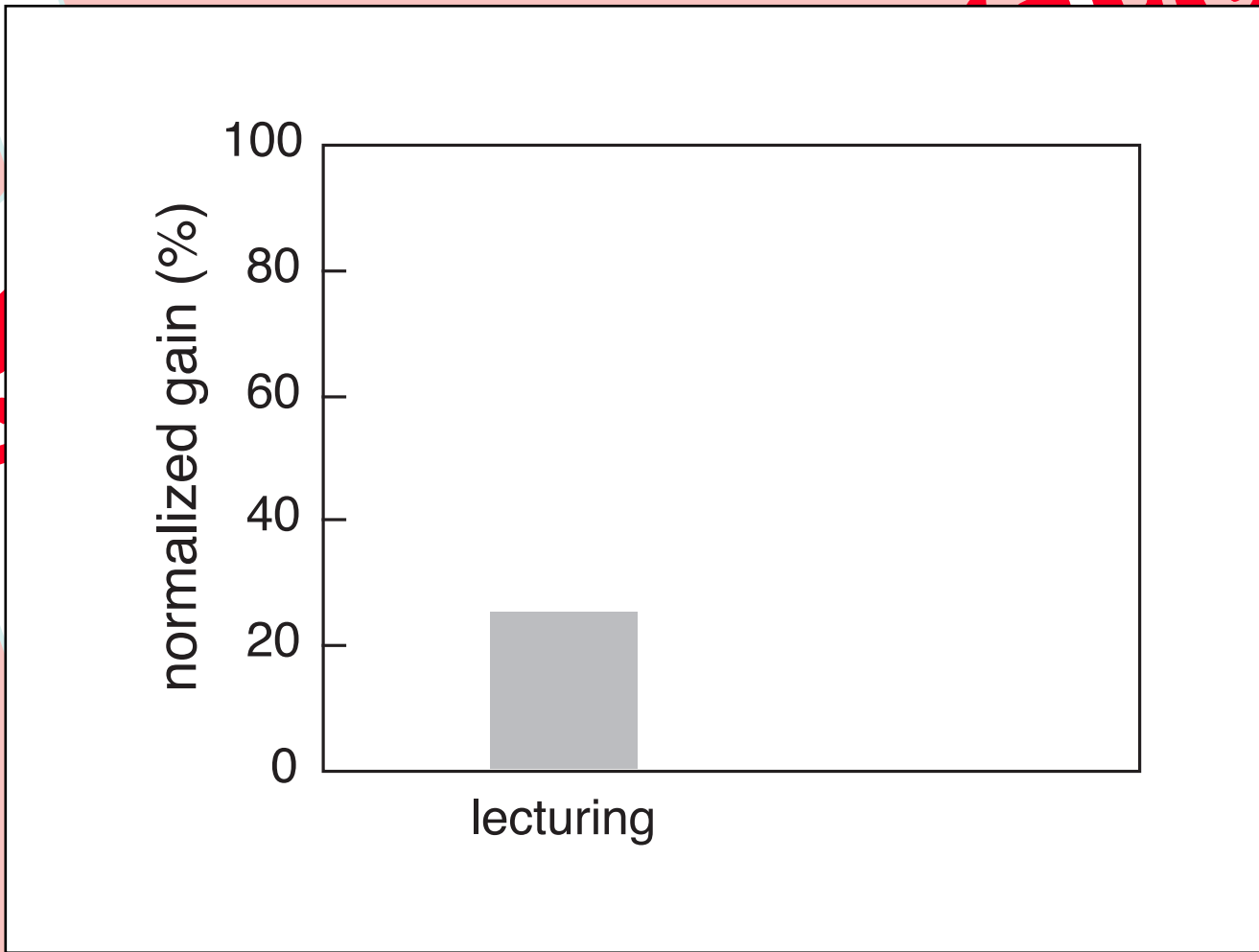
Higher learning gains

SEE

TION

High

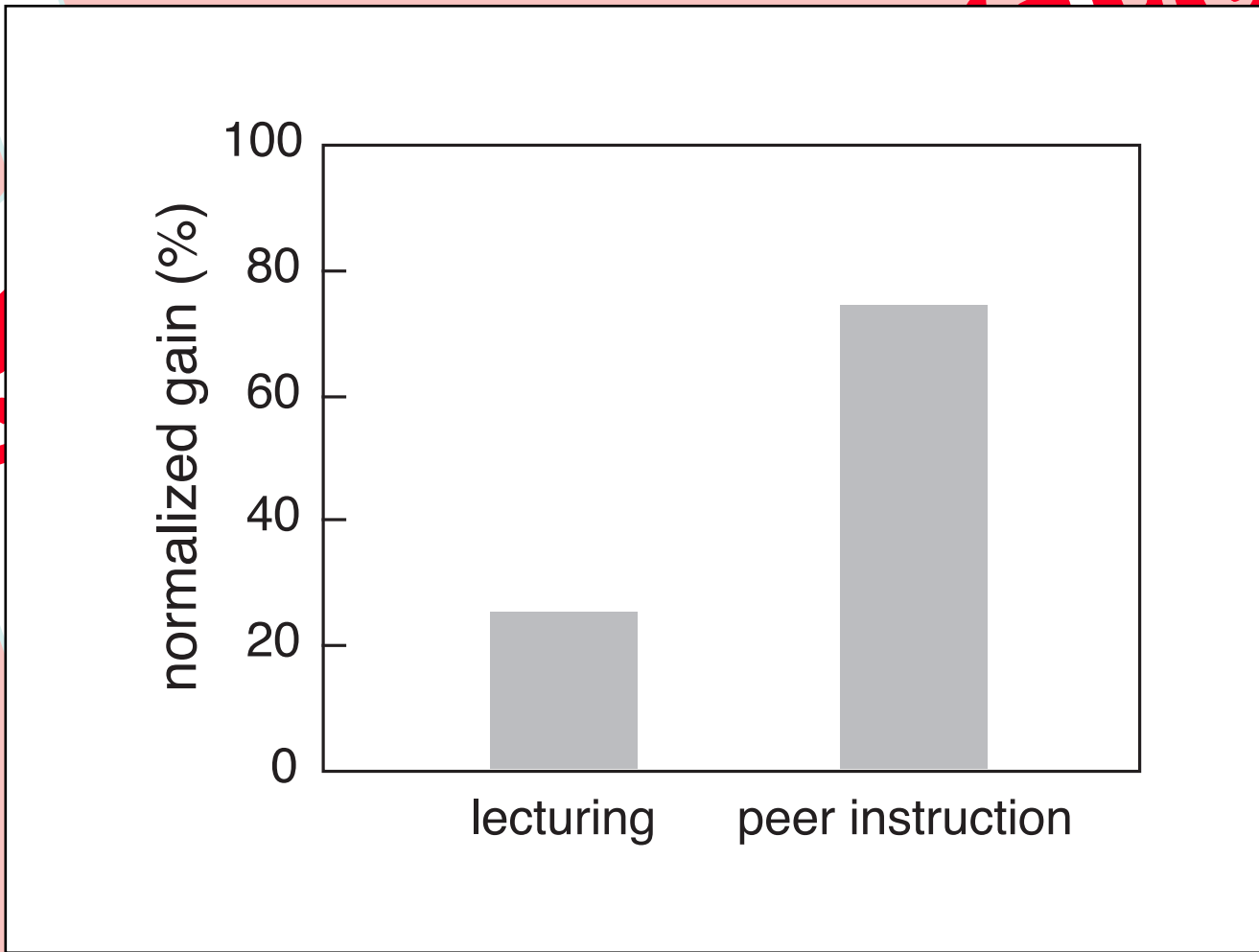
wins



ITION

High

wins



ITION

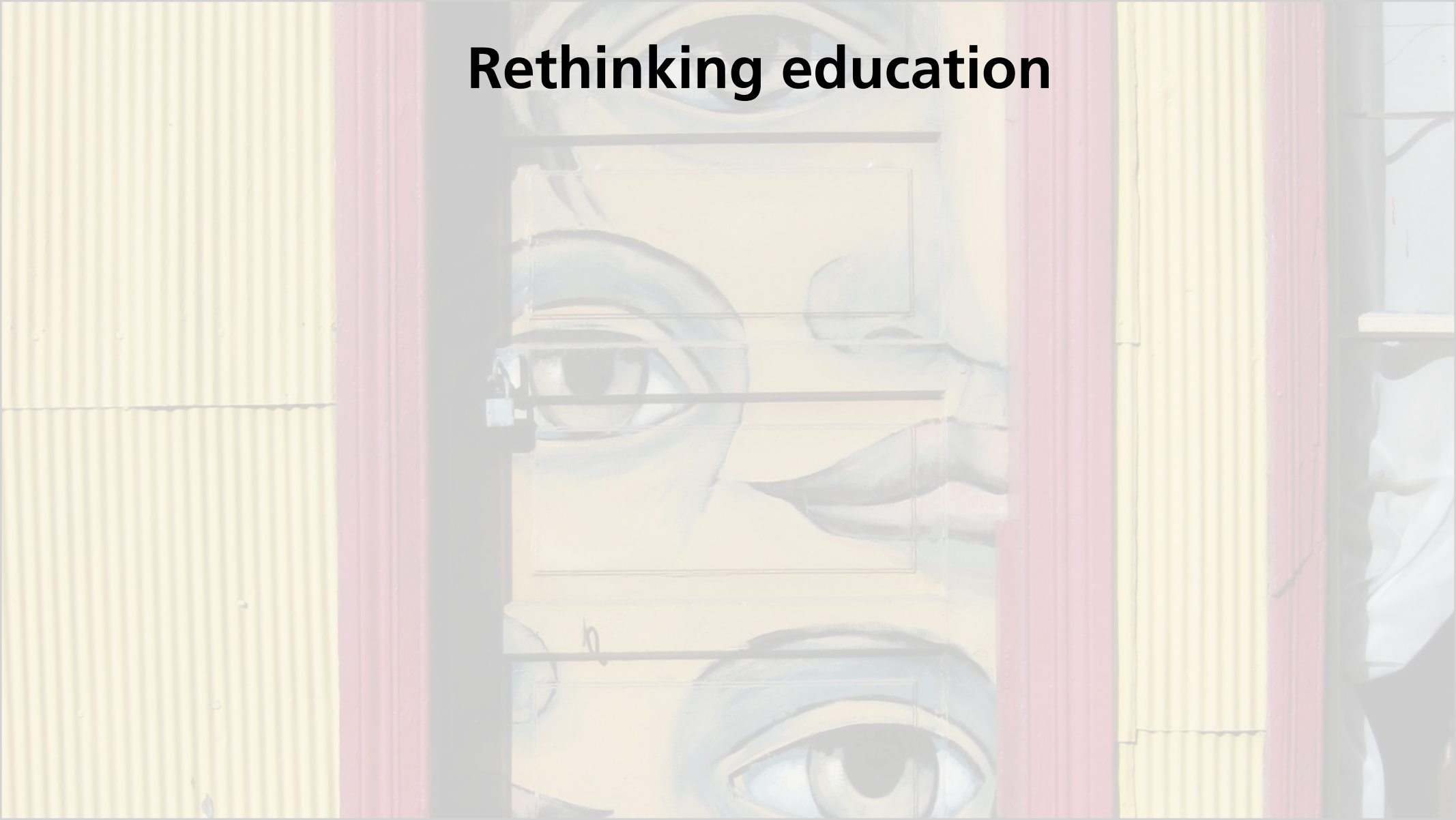
Higher learning gains

Better retention

INSTRUCTION



Rethinking education



Rethinking education

The background of the slide features a window with yellow horizontal blinds and a red frame. Overlaid on this is a faint, stylized face with large, expressive eyes, rendered in shades of blue and grey. The face appears to be looking through the window.

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

Rethinking education

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

~~(challenge)~~

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

(opportunity)

Rethinking education

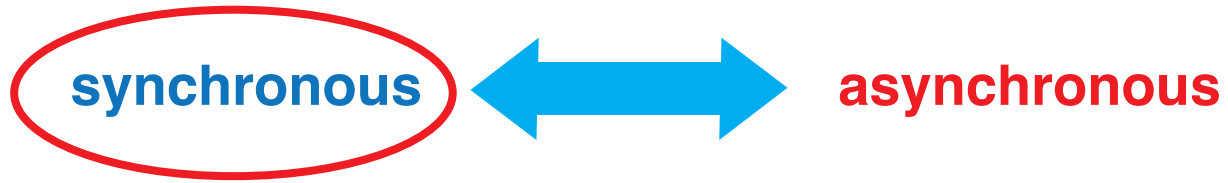
The background of the slide features a window with horizontal blinds. The blinds are partially open, revealing a person's face, which is partially obscured by the slats. The person's eyes are looking directly at the camera. The overall color palette is muted, with shades of yellow, red, and blue.

- **Minimize sync/instructor paced instruction**
- **Rethink learning space**
- **Make space for (creativity and) failure**

Minimize sync/instructor-paced instruction




Minimize sync/instructor-paced instruction



everybody together
at the same *time*

Minimize sync/instructor-paced instruction

synchronous  **asynchronous**

instructor-paced  **self-paced**

Minimize sync/instructor-paced instruction

synchronous ↔ asynchronous

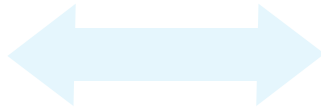
instructor-paced ↔ self-paced

everybody together
at the same *pace*

Minimize sync/instructor-paced instruction

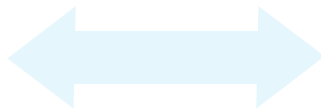
lecture

synchronous



asynchronous

instructor-paced

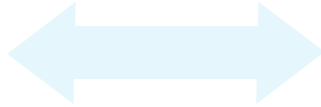


self-paced

Minimize sync/instructor-paced instruction

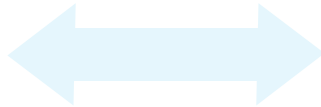
recorded lecture

synchronous



asynchronous

instructor-paced

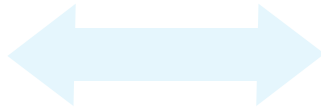


self-paced

Minimize sync/instructor-paced instruction

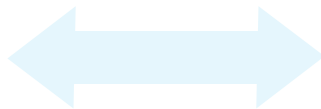
lab

synchronous



asynchronous

instructor-paced

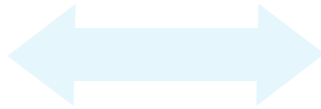


self-paced

Minimize sync/instructor-paced instruction

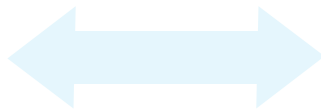
homework/study

synchronous



asynchronous

instructor-paced



self-paced

Minimize sync/instructor-paced instruction

synchronous ↔ **asynchronous**

instructor-paced ↔ **self-paced**

Minimize sync/instructor-paced instruction

synchronous



asynchronous

instructor-paced



self-paced

Minimize sync/instructor-paced instruction

synchronous



asynchronous

instructor-paced



self-paced

Minimize sync/instructor-paced instruction

synchronous



asynchronous

instructor-paced

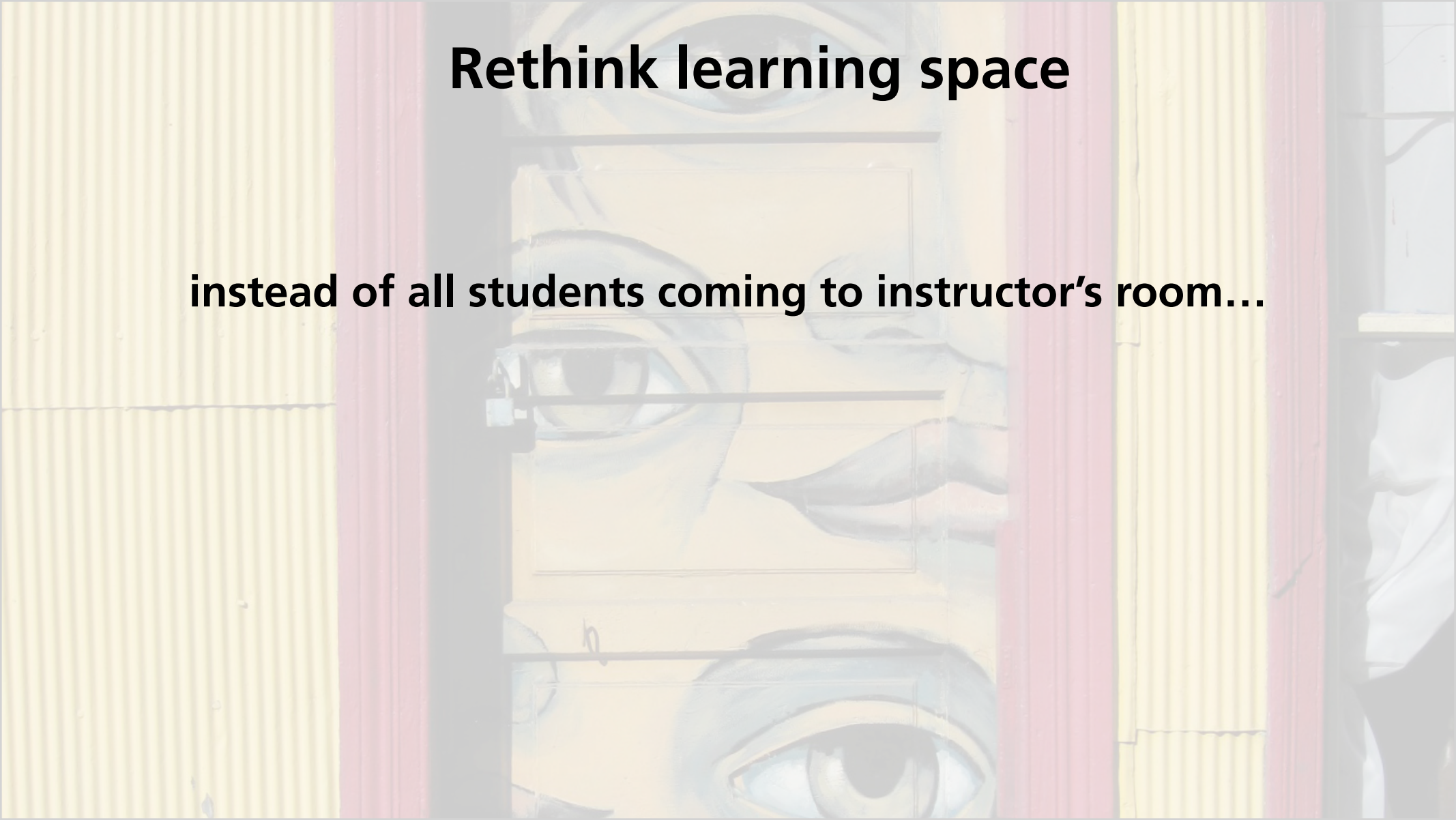


self-paced

more time for personalized instruction!

Rethink learning space

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



Rethink learning space

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

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

Rethink learning space

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

...instructional staff visits each team's own learning space

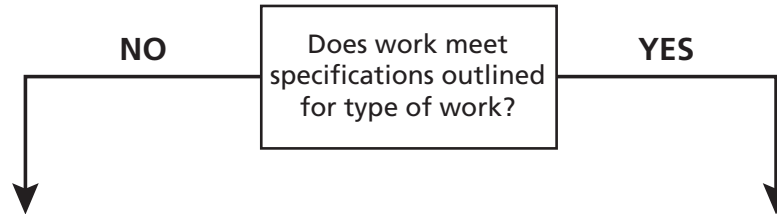
more personalized instruction!

Make space for creativity (and failure)

specifications grading

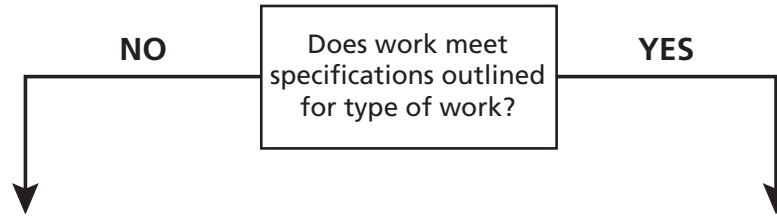
Inside Higher Ed, Yes, Virginia, there is a better way to grade

Make space for creativity (and failure)



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

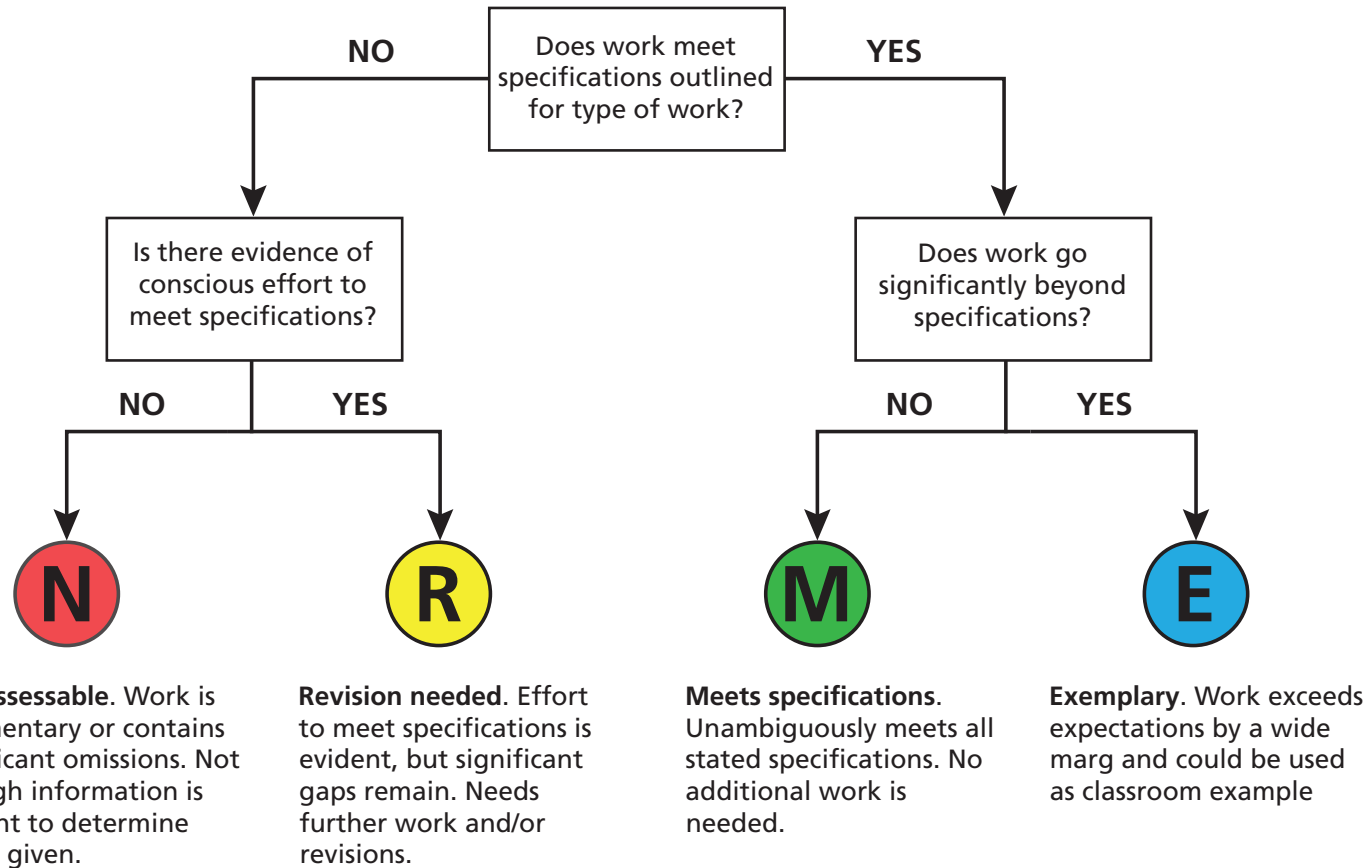
Make space for creativity (and failure)



**if specifications not met,
can try again**

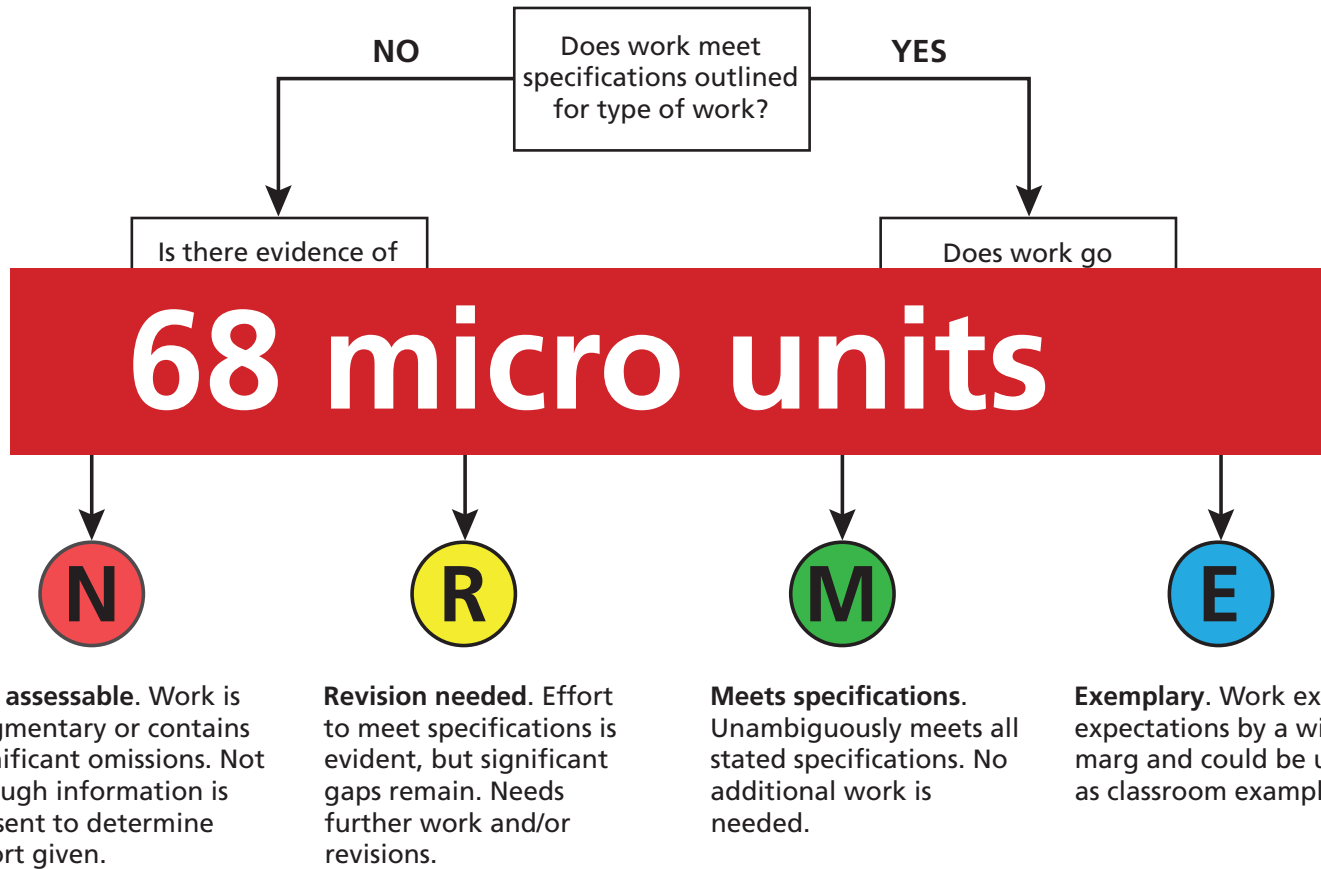
Inside Higher Ed, Yes, Virginia, there is a better way to grade

Make space for creativity (and failure)



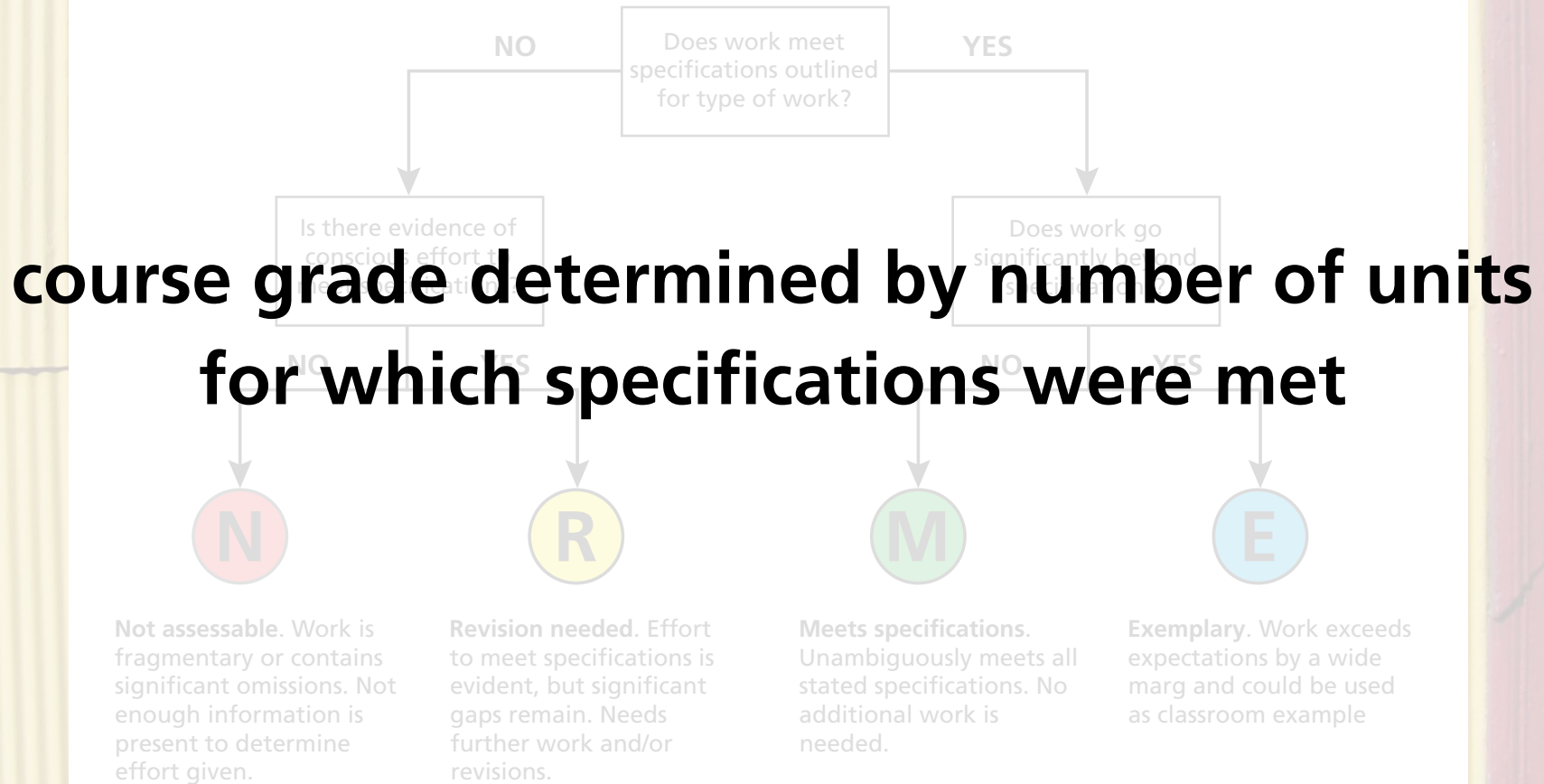
Inside Higher Ed, Yes, Virginia, there is a better way to grade

Make space for creativity (and failure)



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

Make space for creativity (and failure)



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



Education in 21st century is not just about:

- **transferring information**
- **getting students to do what we do**

social engagement in & out of classroom a must!

ericmazur.com

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@eric_mazur