

Advancing the quality of teaching



Teaching Excellence Program Conference 2023
21 February, 2023, Melbourne, Australia



Advancing the quality of teaching



@eric_mazur

Teaching Excellence Program Conference 2023
21 February, 2025, Melbourne, Australia



“I’m not teaching anything...”

“I’m not teaching anything...

...they’re learning!”

Advancing the quality of ~~teaching~~ learning



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human, social, cognitive, and aspirational side

The background image shows a bright, open-plan learning environment. In the foreground, a woman in a pink top and a man in a grey sweater are seated at a white table, both focused on their laptops. The room is filled with other people at various tables, some engaged in discussion, others working. A whiteboard is visible in the mid-ground, and large windows on the right side of the room provide natural light. The overall atmosphere is one of collaborative learning and professional development.

human, social, cognitive, and aspirational side

A blurred background image of a modern classroom or meeting room. People are seated at white tables, some using laptops. A whiteboard is visible in the background. The overall scene suggests a collaborative learning or work environment.



human, social, cognitive, and aspirational side

**define your role
develop relationships**

human, **social**, cognitive, and aspirational side

The background image shows a bright, modern classroom or meeting space. People are seated at white tables, some working on laptops. A whiteboard is visible in the background, and a person is standing near it. The overall atmosphere is collaborative and focused.



human, social, cognitive, and aspirational side

**encourage collaboration
leverage diversity**

human, social, **cognitive**, and aspirational side

The background image shows a bright, open-plan learning environment. In the foreground, a woman in a pink top and a man in a grey sweater are seated at a white table, both focused on their laptops. The room is filled with other people, some sitting at round tables and others standing near whiteboards. The overall atmosphere is collaborative and focused on learning or work.



human, social, cognitive, and aspirational side

**encourage active learning
emphasize time-on-task**

human, social, cognitive, and aspirational side

The background image shows a bright, open-plan room with several round white tables and blue chairs. People are seated at the tables, some looking at laptops. In the background, there are whiteboards and a person standing near one. The overall atmosphere is collaborative and educational.

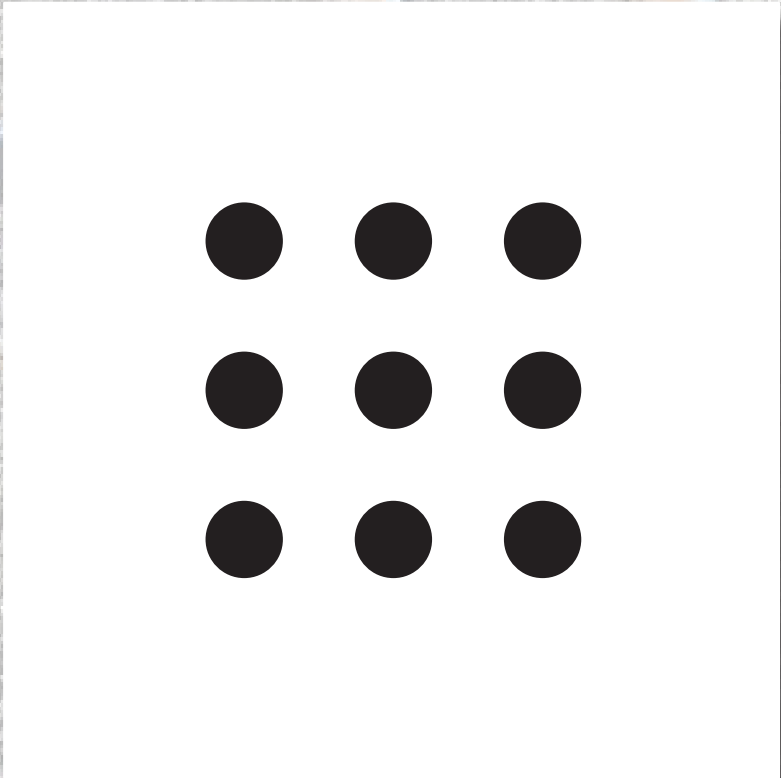
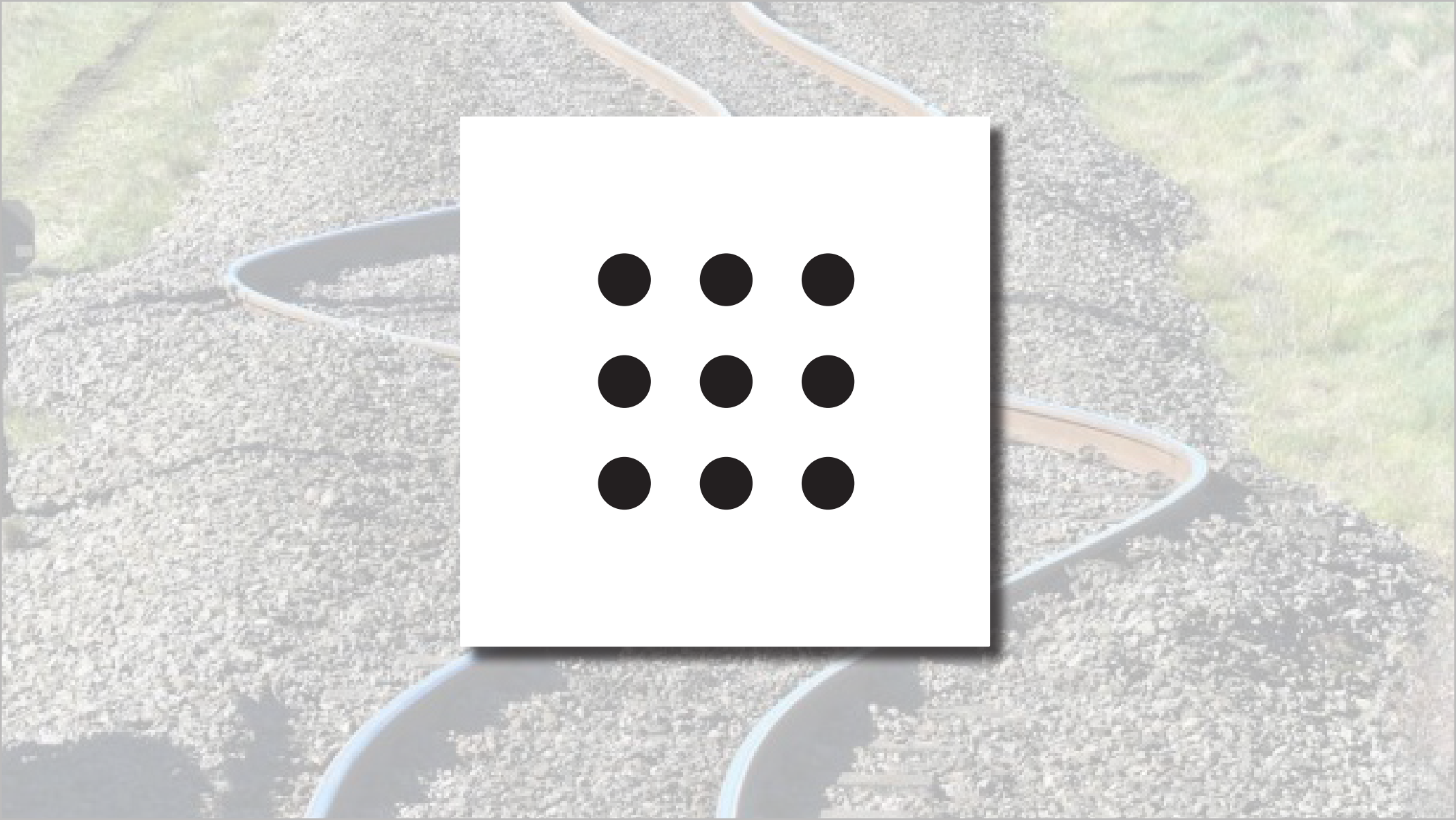


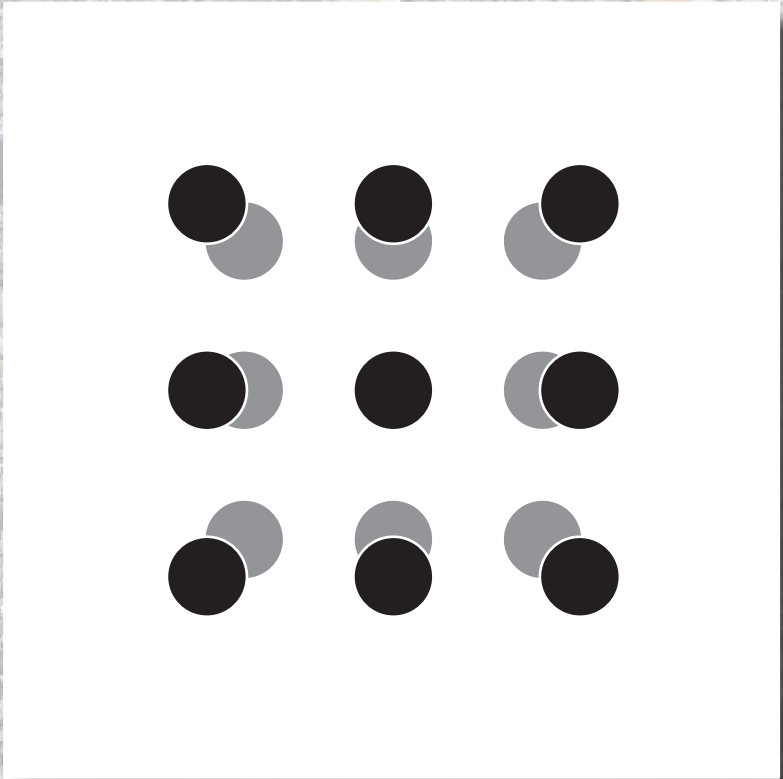
human, social, cognitive, and aspirational side

**communicate high expectations
focus on feedback**

A photograph showing a blue pipe installed in a gravel bed. The pipe is supported by several small concrete blocks. The pipe exhibits a wavy pattern, indicating thermal expansion. The text "thermal expansion" is overlaid on the image.

thermal expansion



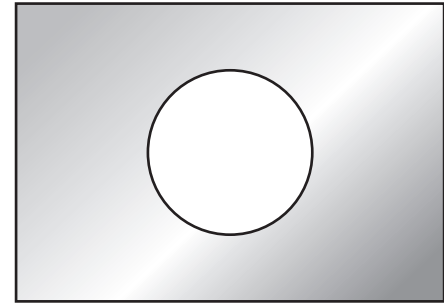


all of them!



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

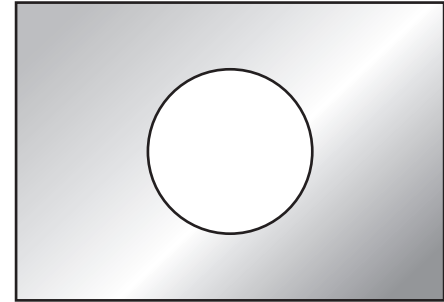
When the plate is uniformly heated, the diameter of the hole



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.
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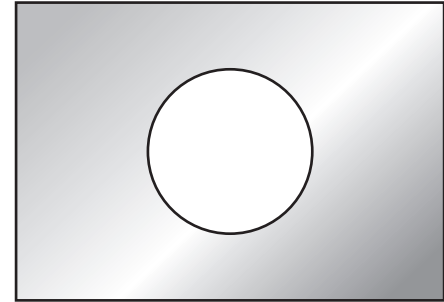


you got all fired up!

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.

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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.

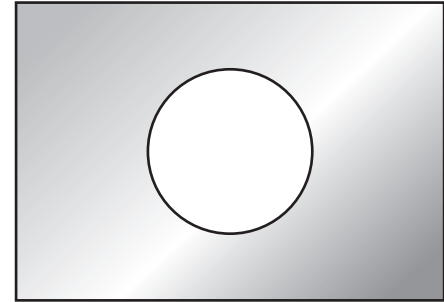
You...

- 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

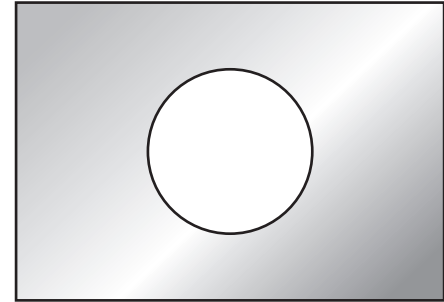
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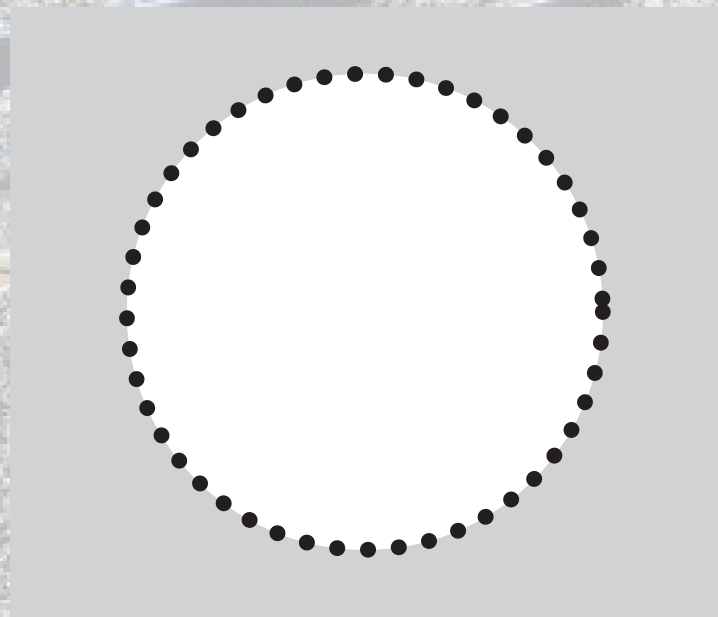
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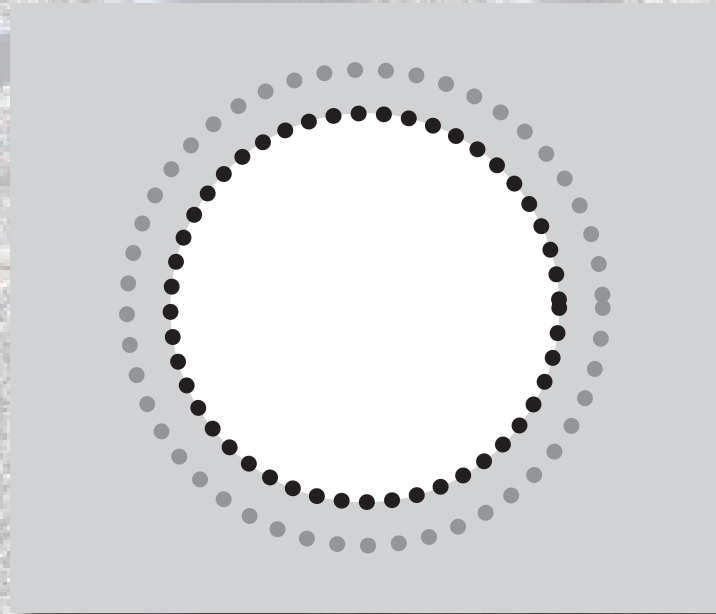
- 1. increases. ✓**
2. stays the same.
3. decreases.



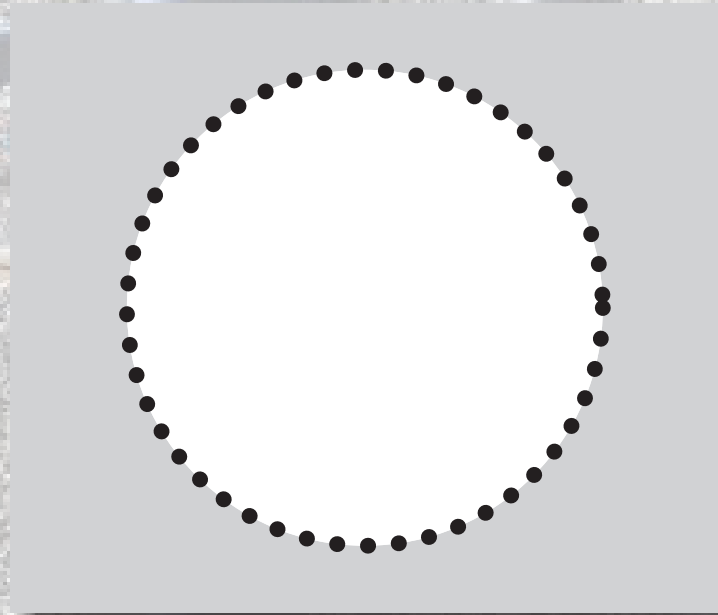
consider atoms at rim of hole



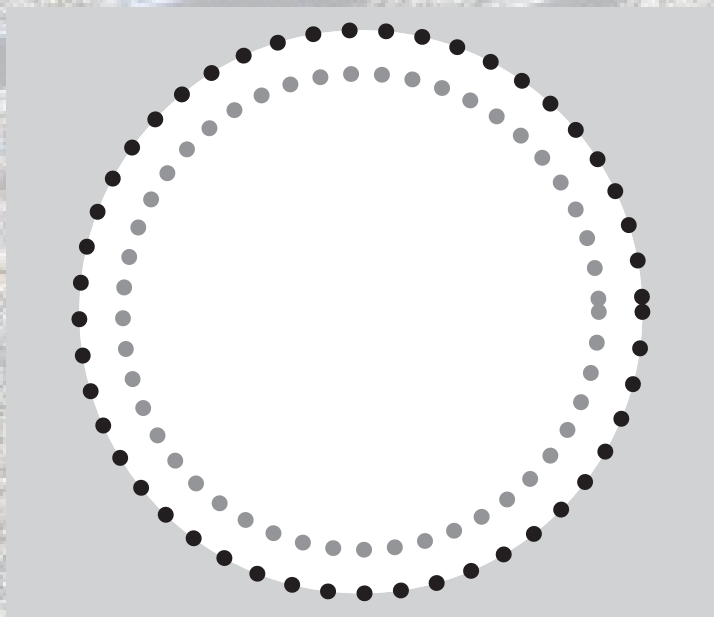
consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole

you won't forget this



human, social, cognitive, and aspirational side

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human, social, cognitive, and aspirational side

project-based learning



human, social, cognitive, and aspirational side

project-based learning

team-based learning



human, social, cognitive, and aspirational side

project-based learning

assessment

team-based learning



human, social, cognitive, and aspirational side

project-based learning

assessment

team-based learning

learning space





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