

Peer Instruction



1st International Conference on Teaching and Learning
Reimagine Teaching to Maximise Student Learning
Muscat, Oman, 10 February 2020



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@eric_mazur

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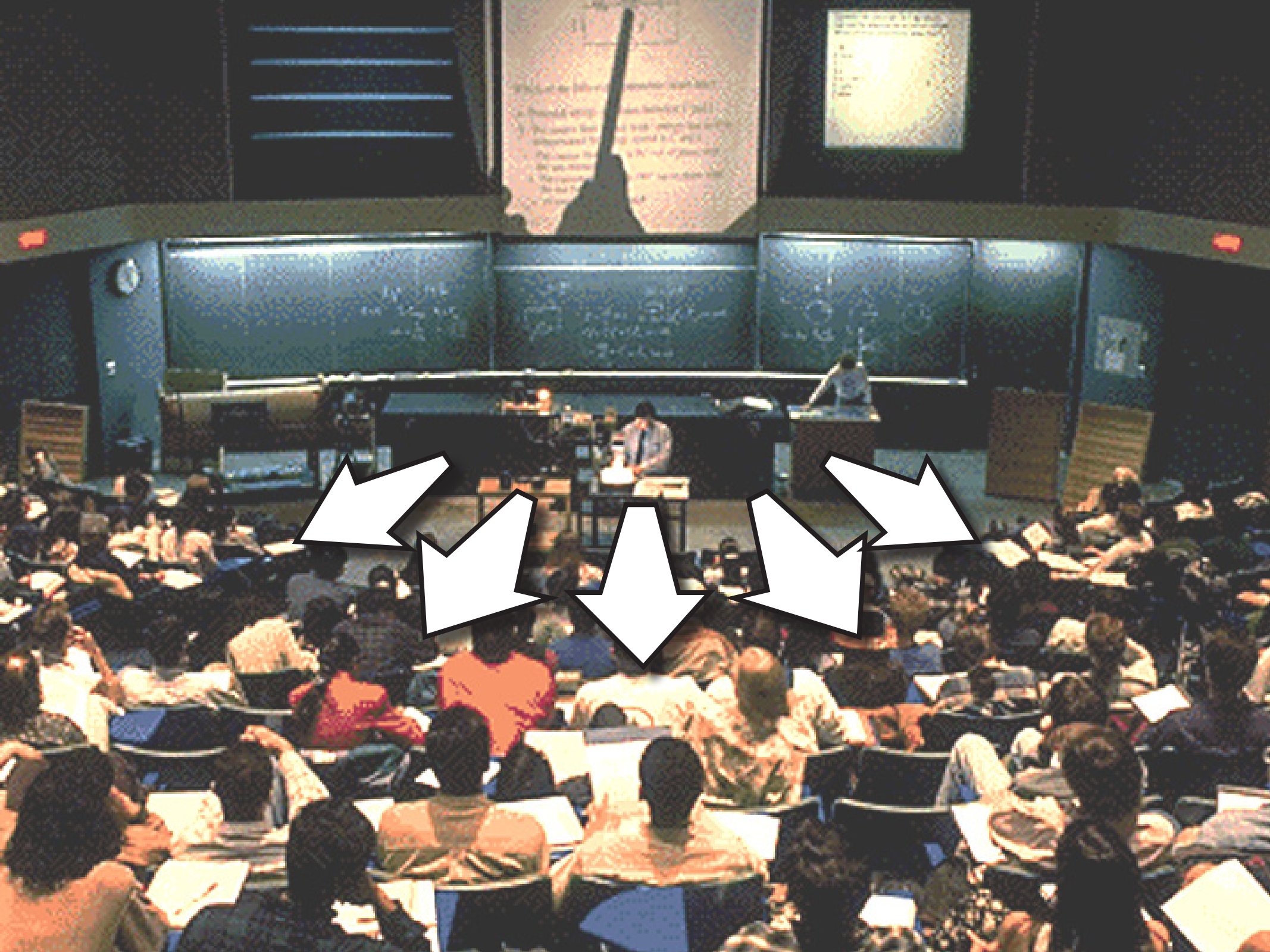




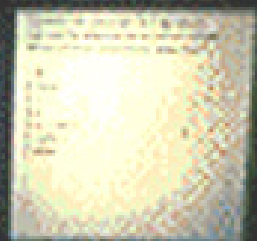
What are the following...
1. Personal...
2. The...
3. The...
4. The...
5. The...

- 1. ...
- 2. ...
- 3. ...
- 4. ...
- 5. ...

...
...
...
...
...



What are the factors that determine the...
A... group...
The...
The...
The...
The...
The...
The...





The image features a painting of a face, possibly a classical or religious figure, with large, expressive eyes. The face is rendered in shades of blue, green, and yellow, and is viewed through a series of horizontal, light-colored slats that create a grid-like pattern. The background of the painting is a mix of these colors. Overlaid on the center of the image is the text "an illusion..." in a bold, red, serif font. The text is slightly transparent, allowing the underlying painting to be seen through it. The overall composition is centered and balanced.

an illusion...





1. transfer of information



1. transfer of information

2. assimilation of that information




1. transfer of information (in class)

2. assimilation of that information



1. transfer of information (in class)

2. assimilation of that information (out of class)



**Should focus
on THIS!**

1. transfer of information (in class)

2. assimilation of that information (out of class)



1. transfer of information (in class)

2. assimilation of that information (out of class)



1. transfer of information (out of class)

2. assimilation of that information (in class)

Peer

1. transfer of information (out of class)

2. assimilation of that information (in class)

INSTRUCTION

question

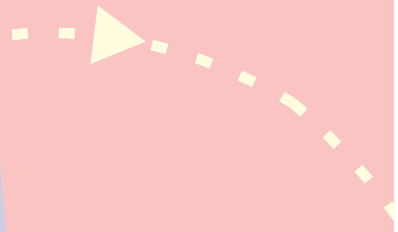
INSTRUCTION

question



think

r



INSTRUCTION

question



think



poll

r

INSTRUCTION

INSTRUCTION

question



think



poll



discuss

INSTRUCTION

question



think



poll



discuss



repoll

repoll

question



think



poll



discuss

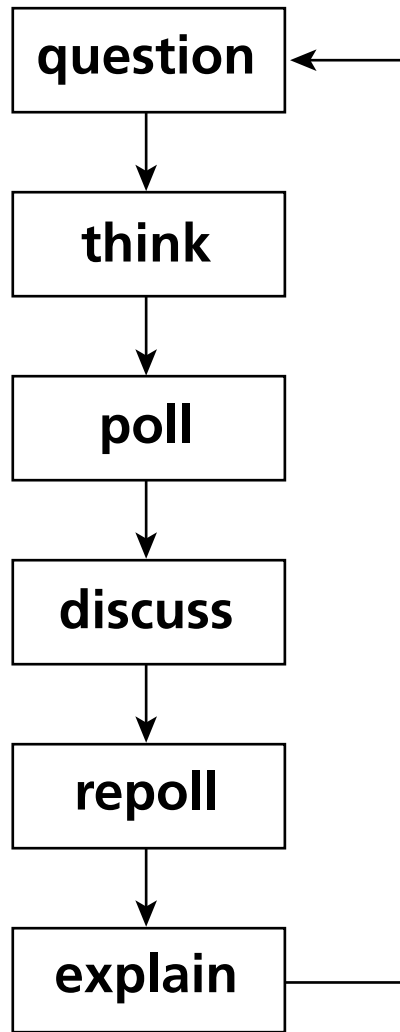


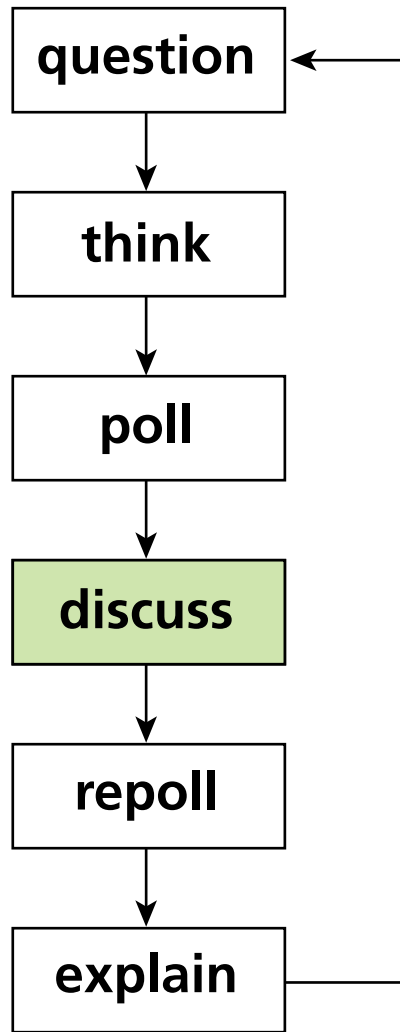
repoll



explain

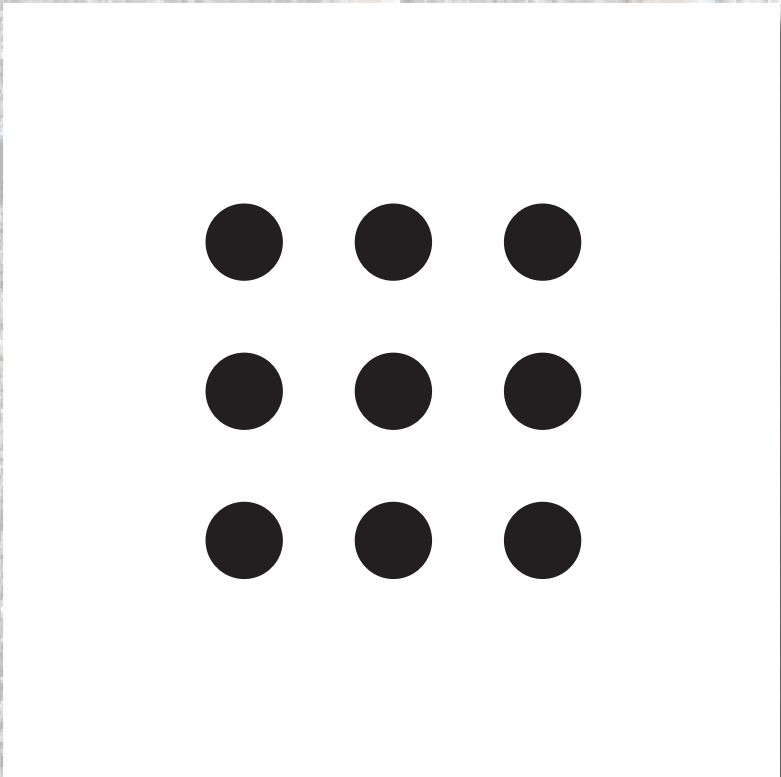
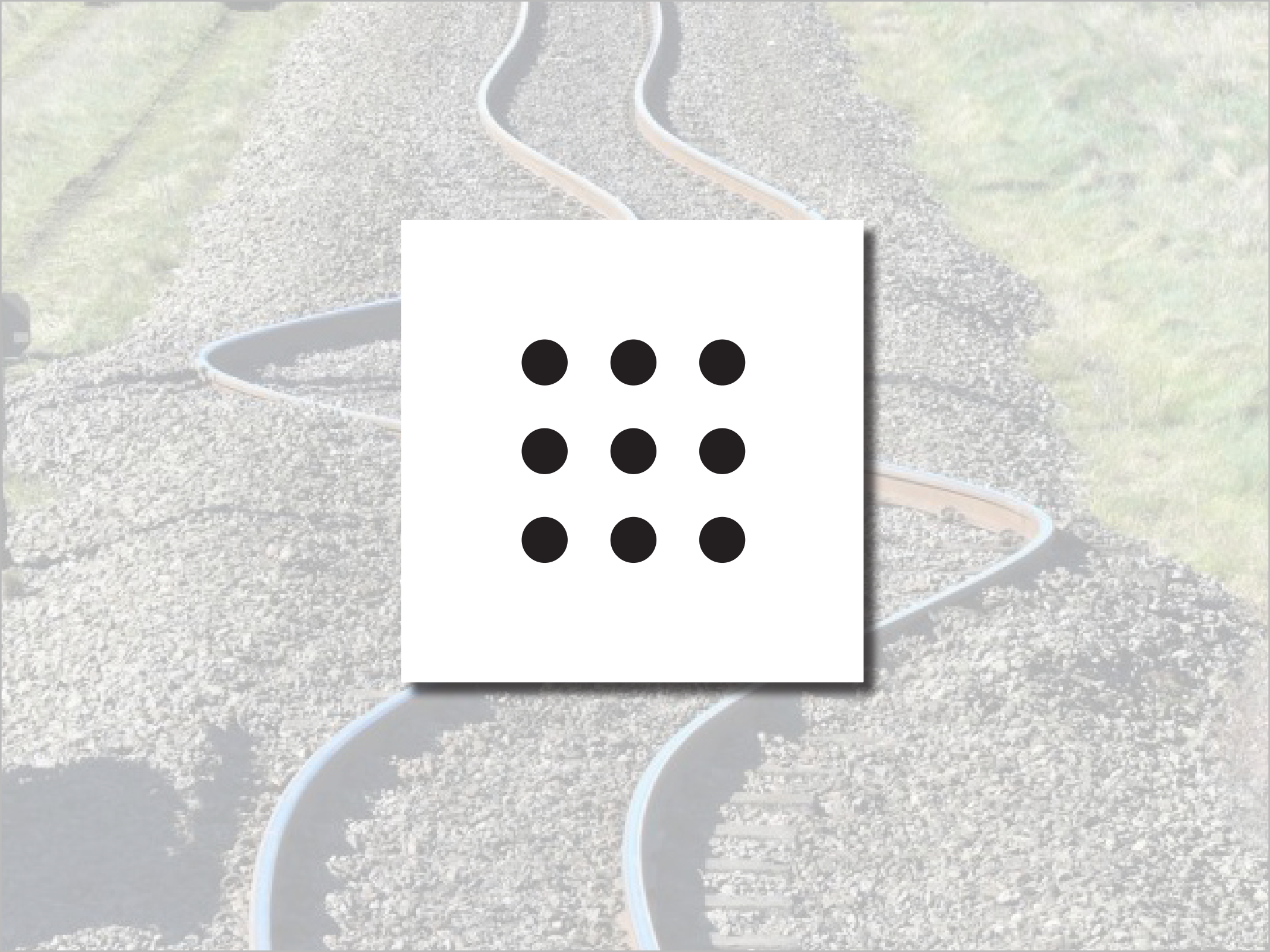
INSTRUCTION

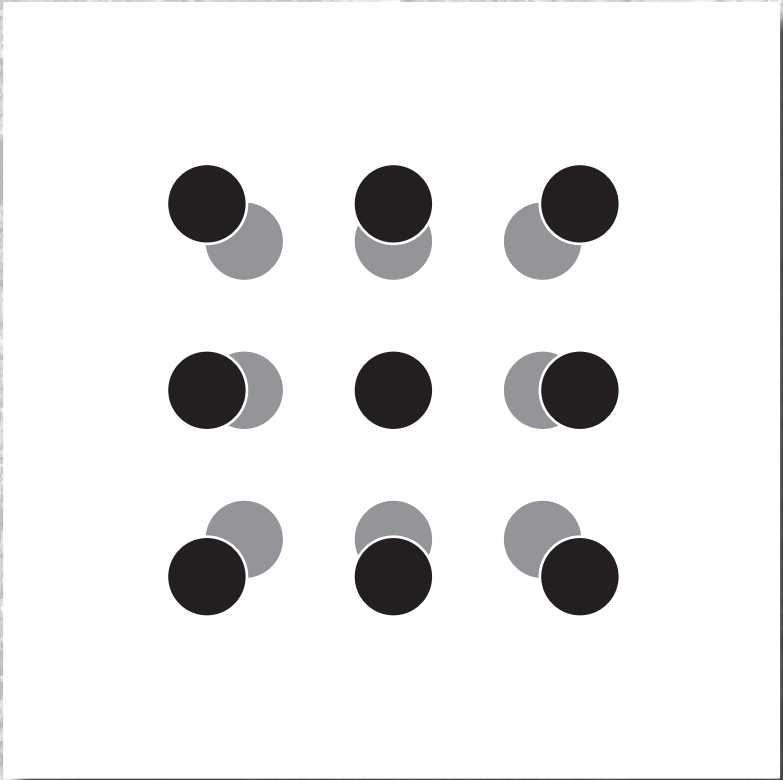




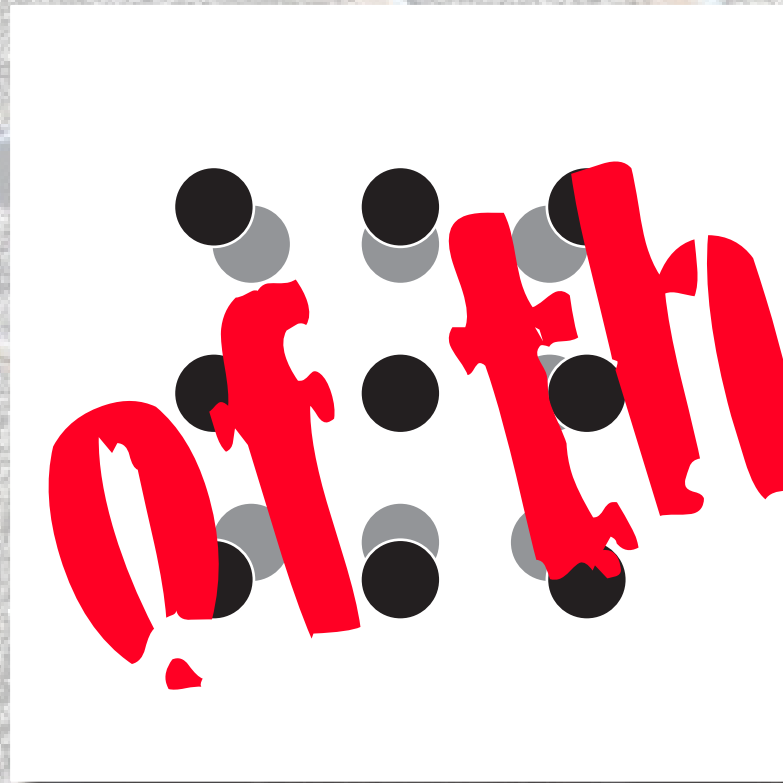
A photograph of a railway track with a wavy, undulating track bed, illustrating thermal expansion. The track is composed of gravel and wooden sleepers. The text "thermal expansion" is overlaid on the image.

thermal expansion

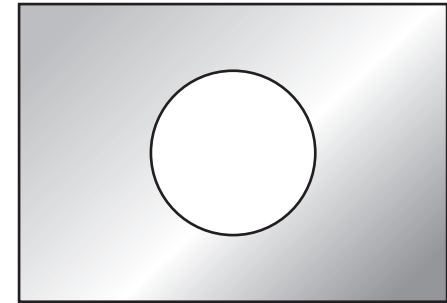




all of them!

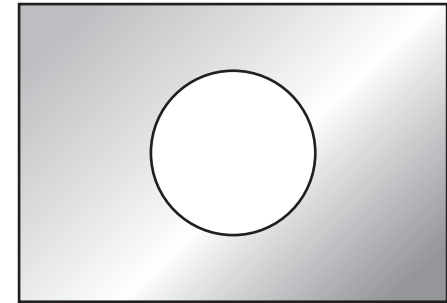


**Consider a rectangular metal plate
with a circular hole in it.**



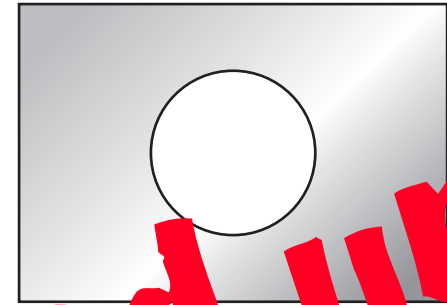
Consider a rectangular metal plate with a circular hole in it.

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.



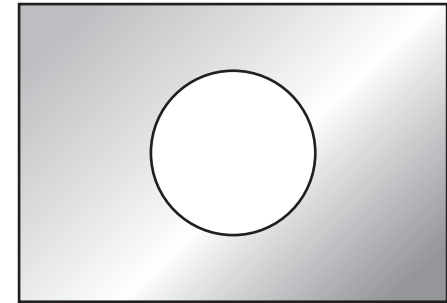
When the plate is uniformly heated, the diameter of the hole

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**

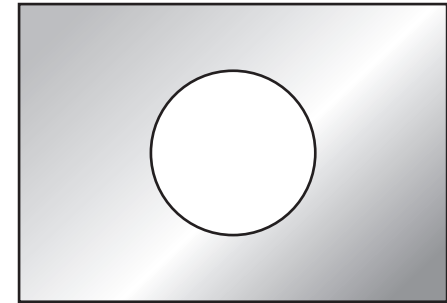
Before I tell you the answer, let's analyze what happened.

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**

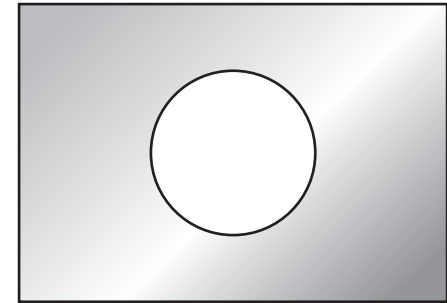
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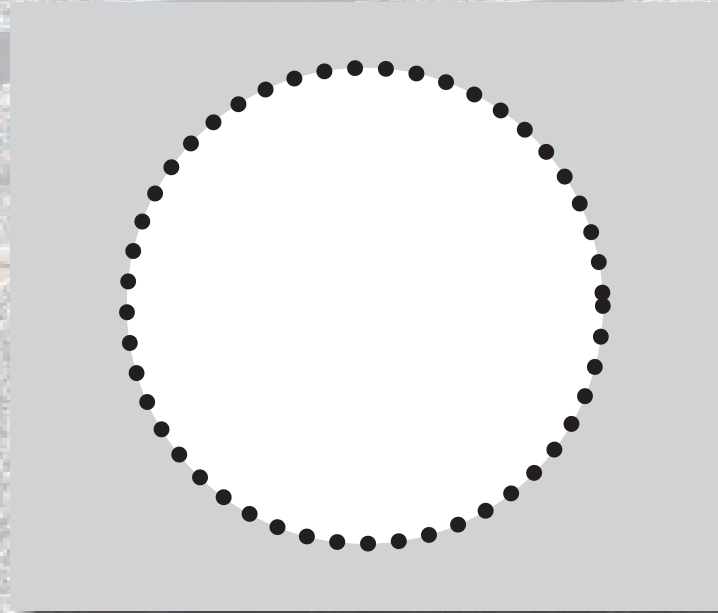
Consider a rectangular metal plate with a circular hole in it.



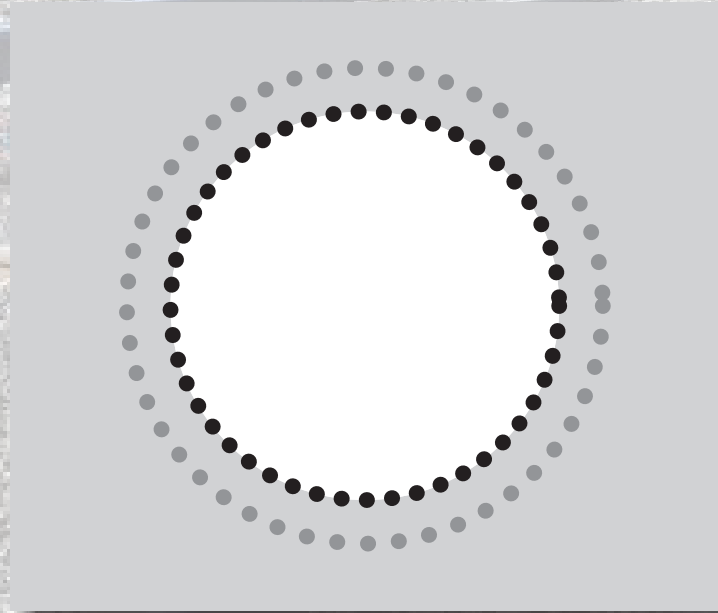
When the plate is uniformly heated, the diameter of the hole

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

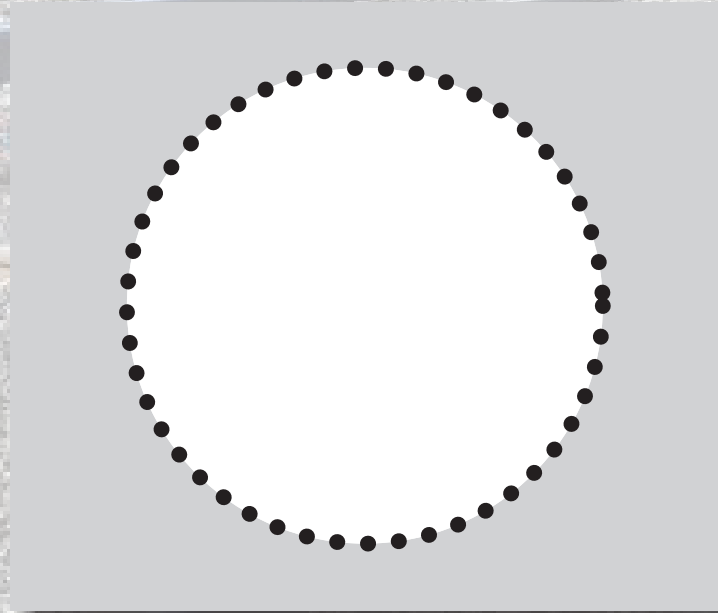
consider atoms at rim of hole



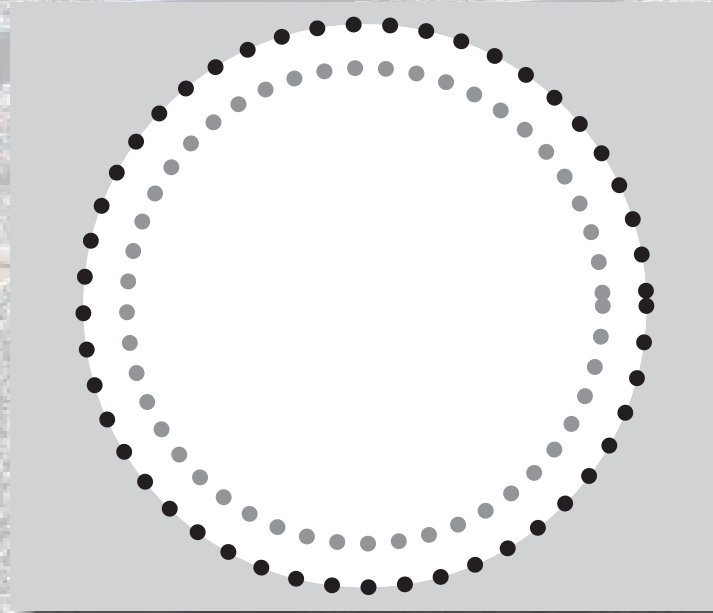
consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole

you won't forget this



Peer

back to pi

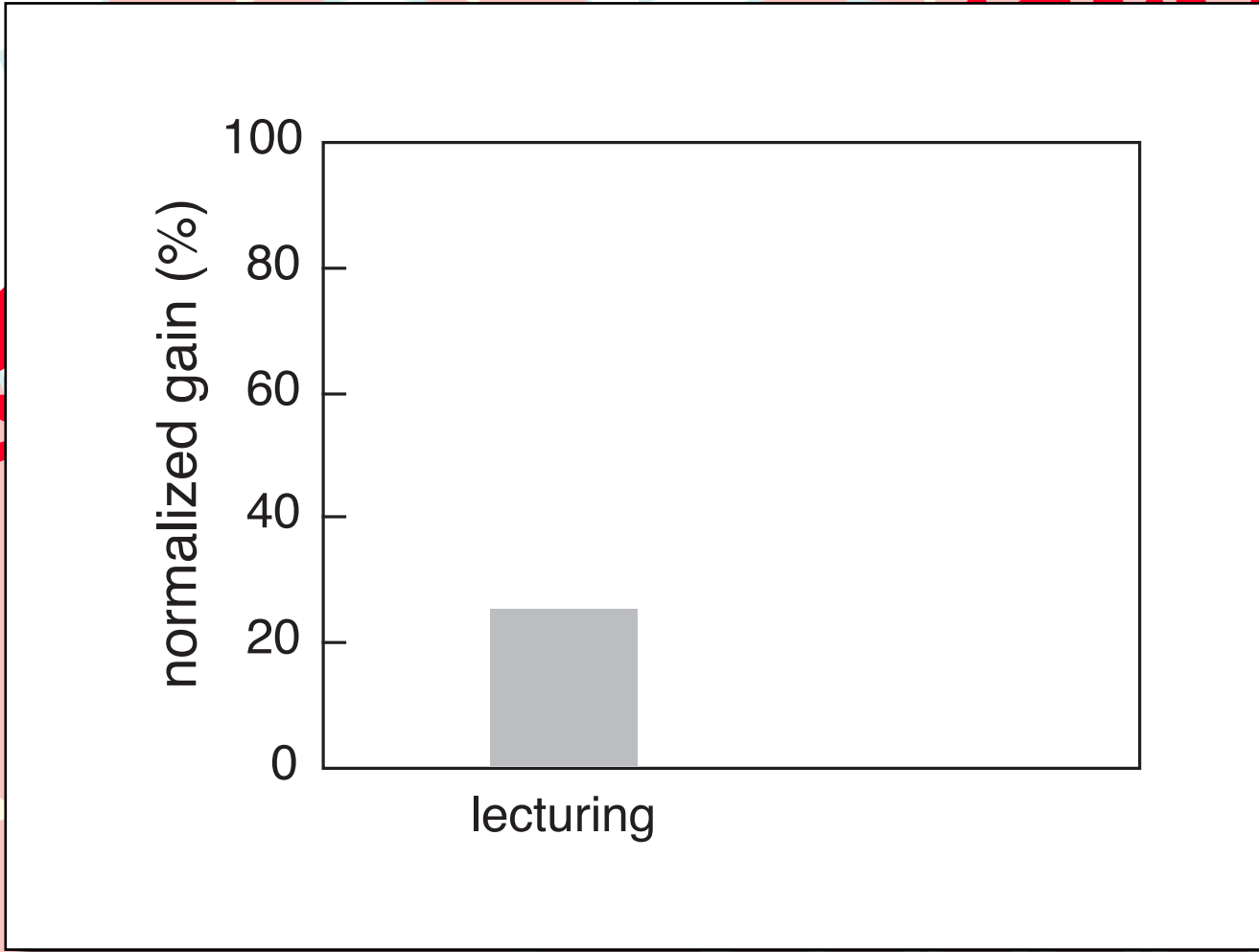
INSTRUCTION

Higher learning & gains

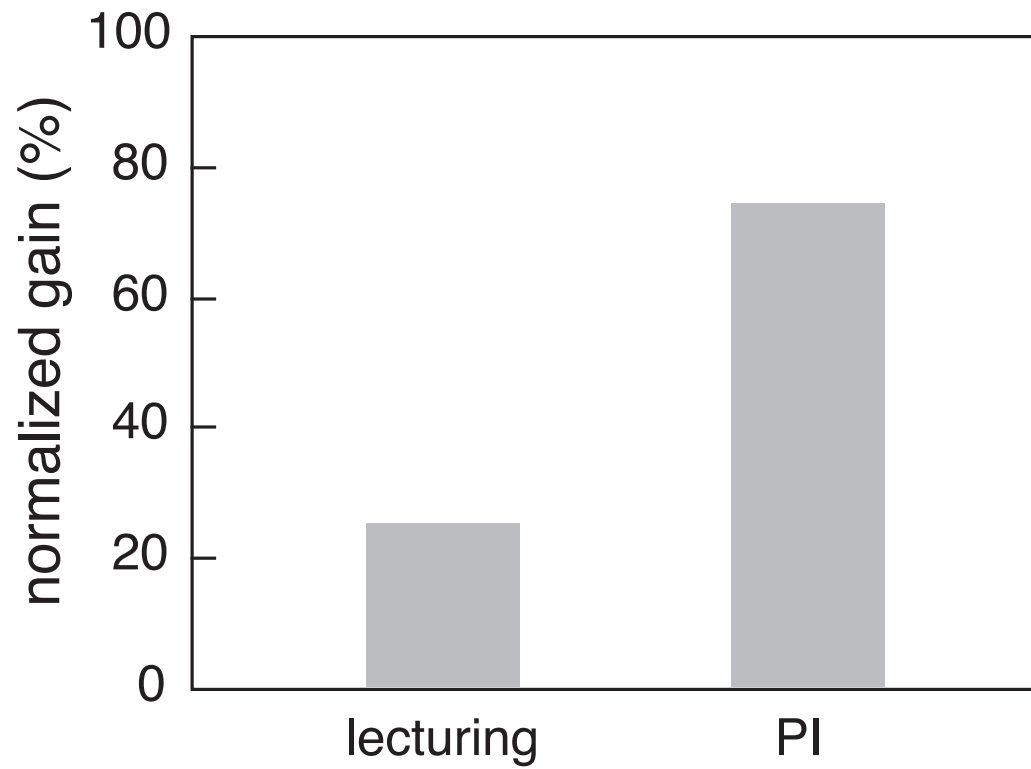
INSTRUCTION

High

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INSTRUCTION



Higher learning gains

Better retention

INSTRUCTION



Education is not just about:

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

The background of the slide features a close-up of a person's face, specifically their eyes and nose, looking through horizontal window blinds. The blinds are partially open, creating a grid-like pattern over the face. The lighting is soft, and the colors are muted, with a focus on the blue and brown tones of the person's skin and the white of the blinds.

Education is not just about:

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

active engagement/social interaction a must!

ericmazor.com

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