

Peer Instruction



Association of MIT trained African University Lecturers
4 August 2022



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@eric_mazur

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What are the factors that determine the success of a business? (10 marks)

- 1. Financial strength
- 2. Human resources
- 3. Technological innovation
- 4. Marketing strategy
- 5. Government support
- 6. International trade
- 7. Environmental protection
- 8. Social responsibility
- 9. Innovation and creativity
- 10. Risk management

Year	Revenue	Profit	Assets	Liabilities	Equity
2010	100	20	120	80	40
2011	120	25	145	90	55
2012	150	30	180	100	80
2013	180	35	215	110	105
2014	200	40	240	120	120

1. The company has a strong financial position. It has a high level of liquidity and a low level of debt. This allows the company to invest in new projects and expand its operations.

2. The company has a large and experienced workforce. It has a high level of employee loyalty and a strong commitment to quality. This allows the company to produce high-quality products and services.

3. The company has a strong technological base. It has invested heavily in research and development, and it has a strong patent portfolio. This allows the company to develop new products and services that are competitive in the market.

4. The company has a strong marketing strategy. It has a clear understanding of its target market and it has a strong presence in the media. This allows the company to reach a large number of potential customers.

5. The company has a strong government relationship. It has a good working relationship with the government and it has a strong understanding of government policy. This allows the company to benefit from government support and to avoid government intervention.

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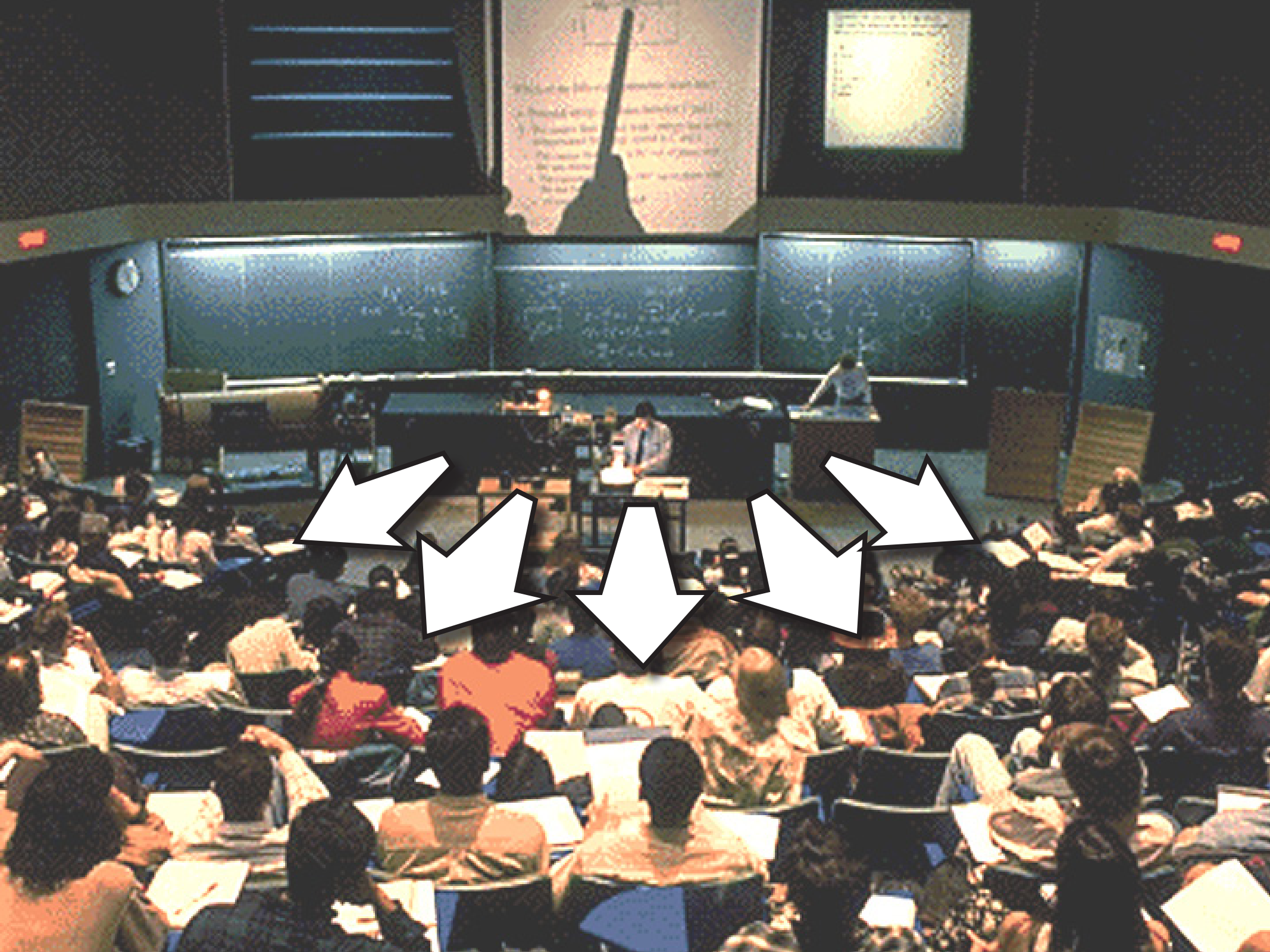
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an illusion. . .

The background of the slide is a faded, artistic illustration of a person's face, focusing on the eyes. The face is rendered in a sketchy, painterly style with muted colors. The eyes are large and expressive, looking directly forward. The background of the illustration consists of vertical stripes in shades of yellow and red. The text is overlaid on this background.

quick reflection

think of something you are good at

The background is a faded image of a book cover. It features a portrait of a man with a beard and a turban, looking slightly to the side. The text 'quick reflection' is printed in a bold, black, sans-serif font at the top. The book's spine and cover are decorated with vertical stripes in shades of yellow and red.

quick reflection

how did you become good at that?





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)

The word "Peer" is written in a large, white, sans-serif font with a light blue outline. A dashed yellow line with arrowheads at both ends forms a circle around the two 'e's. A dotted blue line starts from the bottom left, passes through the 'e's, and ends with an arrowhead pointing towards the 'r'.

Peer

1. transfer of information (out of class)

2. assimilation of that information (in class)

The word "INSTRUCTION" is written in a white, sans-serif font, tilted upwards from left to right. A dotted blue line starts from the bottom left, passes through the 'e's in "Peer", and ends with an arrowhead pointing towards the 'I' in "INSTRUCTION".

INSTRUCTION

question

question



think

question



think



poll

question



think



poll



discuss

question



think



poll



discuss



repoll

question



think



poll



discuss



repoll



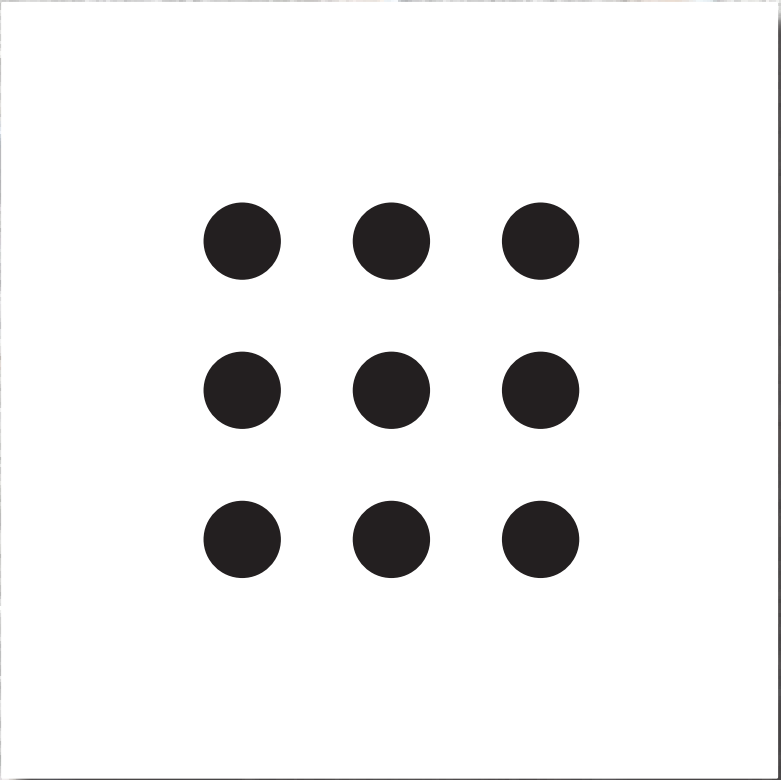
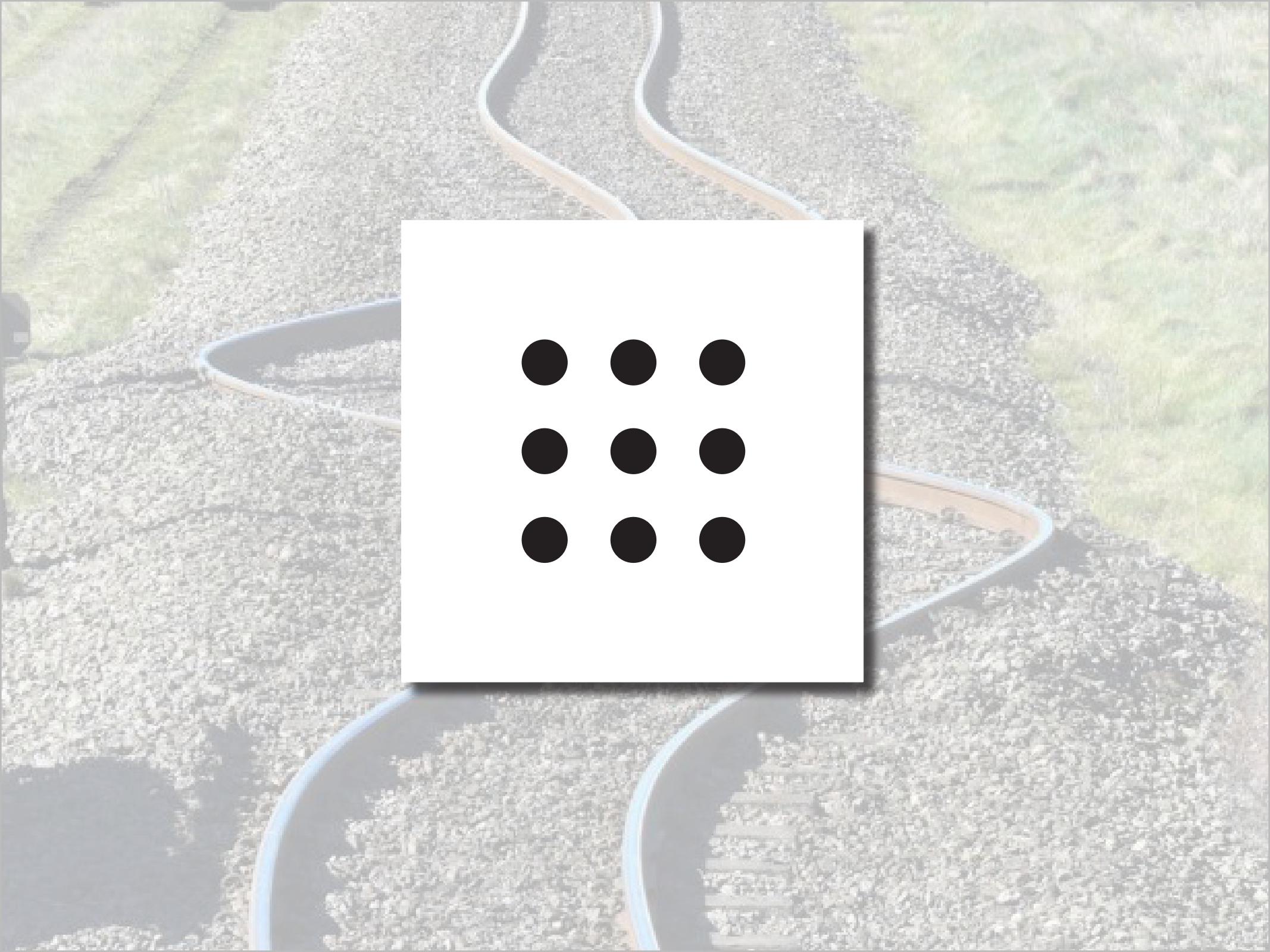
explain

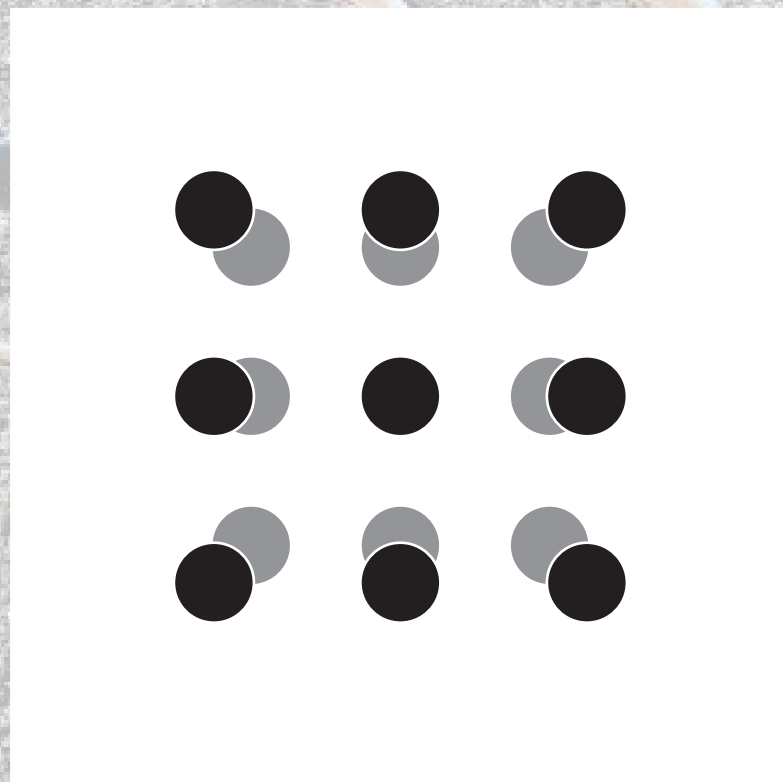




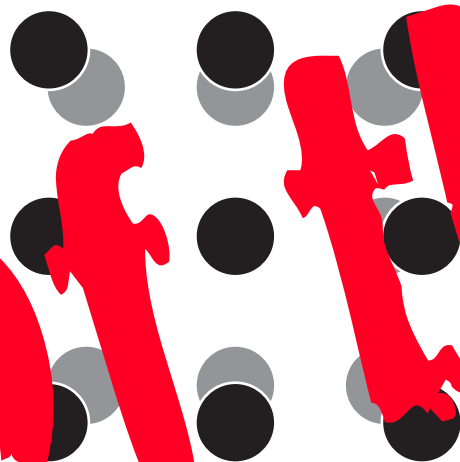
A photograph of a railway track with a wavy, undulating path, illustrating the concept of thermal expansion. The track is composed of gravel and wooden sleepers, and the rails are curved in a series of S-shapes. The text "thermal expansion" is overlaid on the image.

thermal expansion





all of them



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



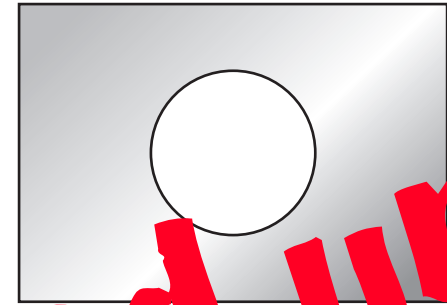
Consider a rectangular metal plate with a circular hole in it.



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.



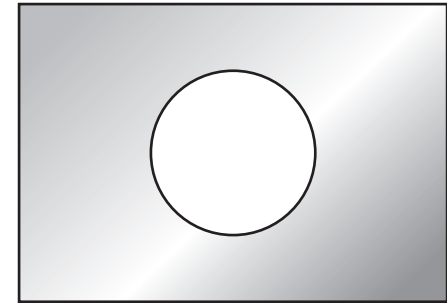
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Consider a rectangular metal plate with a circular hole in it.

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

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www.menti.com
8682 6567

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**

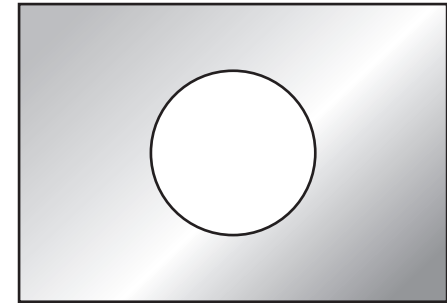
Before I tell you the answer, let's analyze what happened.

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

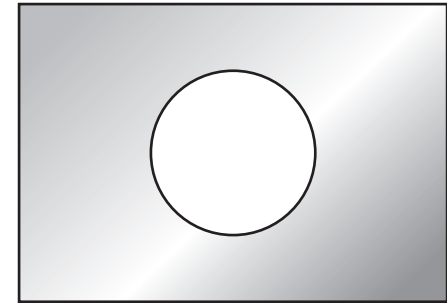


- 1. increases.**
- 2. stays the same.**
- 3. decreases.**

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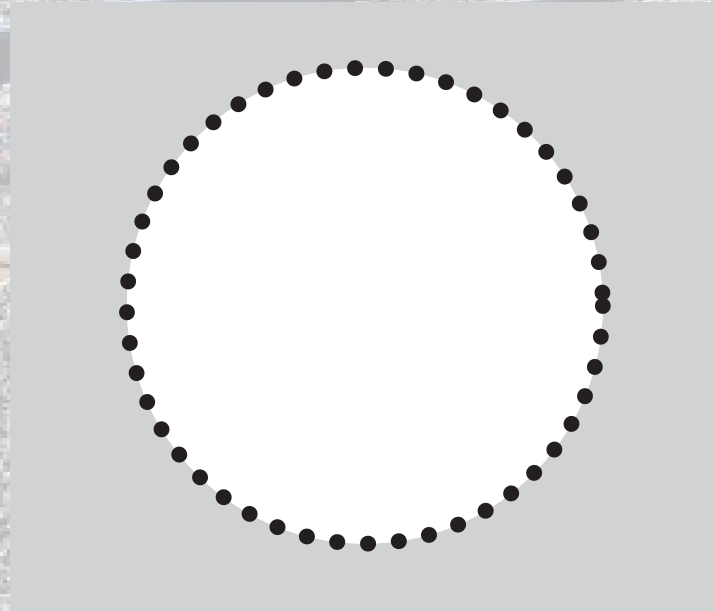
Consider a rectangular metal plate with a circular hole in it.



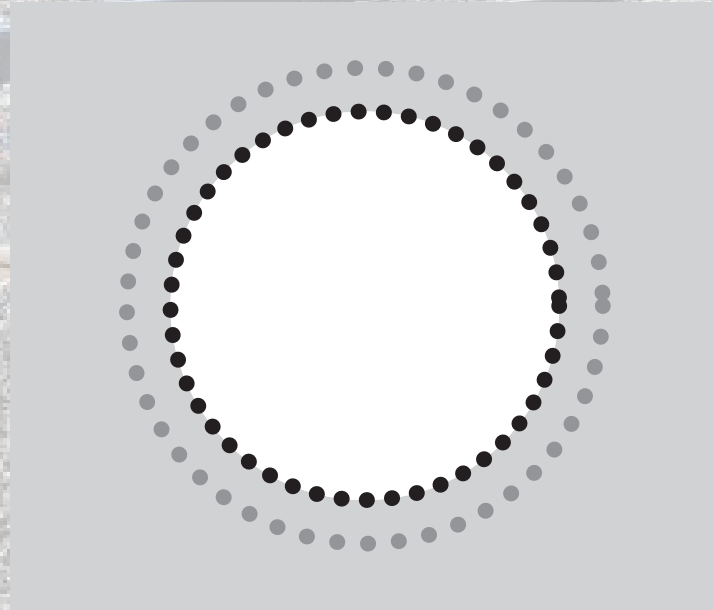
When the plate is uniformly heated, the diameter of the hole

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

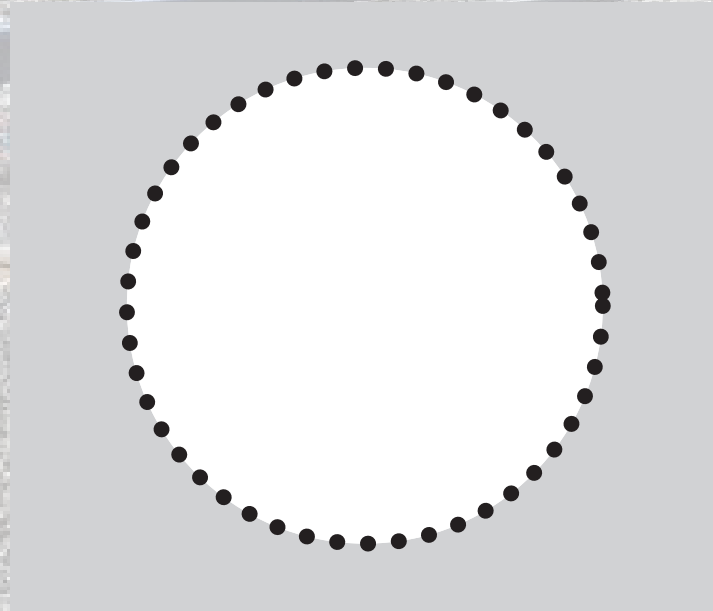
consider atoms at rim of hole



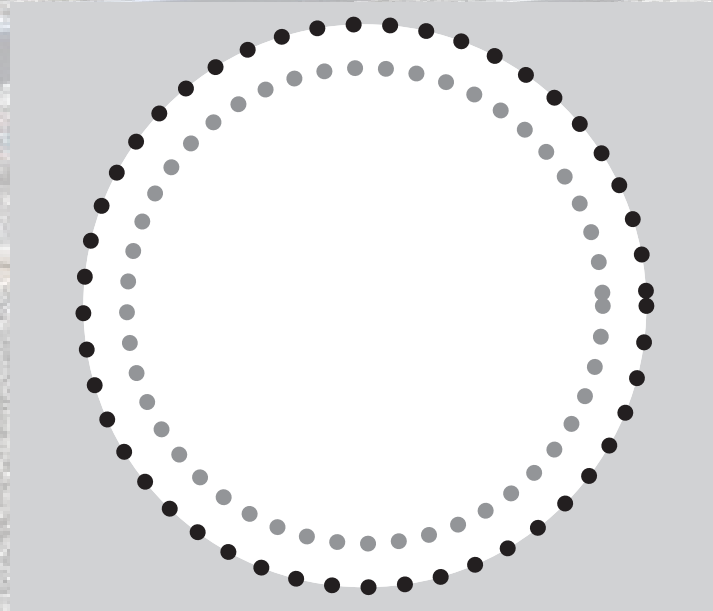
consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole

you won't forget this

An aerial photograph of a gravel path that winds in a series of S-curves. The path is bordered by a thin orange line on one side and a thin blue line on the other. The path leads from the top of the frame towards the bottom, where a wooden boardwalk or bridge structure is visible. The surrounding area is covered in green grass.

points worth noting

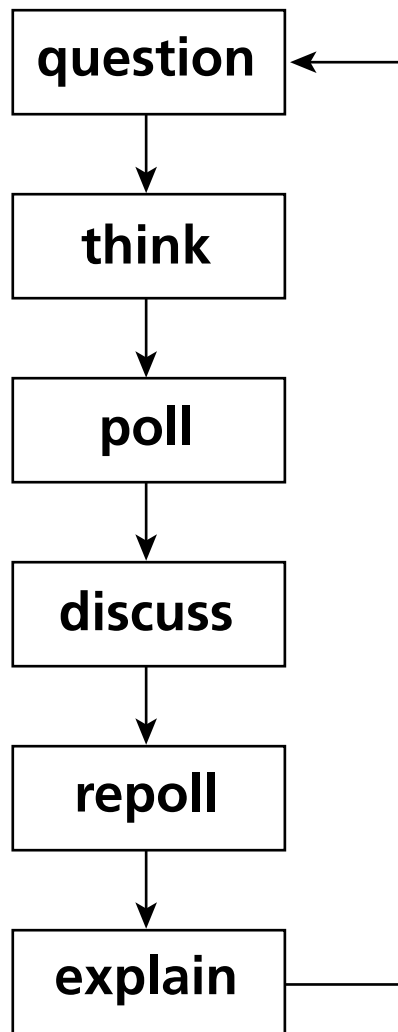
- **my “clear” lecture wasn’t very good**
- **discussion promoted “aha” moments**

The image features a light red background with a diagonal split into a light blue section on the left and a light red section on the right. The word 'Peer' is written in a large, white, sans-serif font with a light blue outline. A dashed yellow line with a yellow arrow at its end curves around the 'e' and 'e' of 'Peer'. Below 'Peer', the text 'back to pl' is written in a bold, red, sans-serif font. A dotted blue line with a yellow arrow at its end curves around the 'back to pl' text. At the bottom, the word 'INSTRUCTION' is written in a white, sans-serif font, slanted upwards to the right. A dotted blue line with a yellow arrow at its end curves around the 'INSTRUCTION' text.

Peer

back to pl

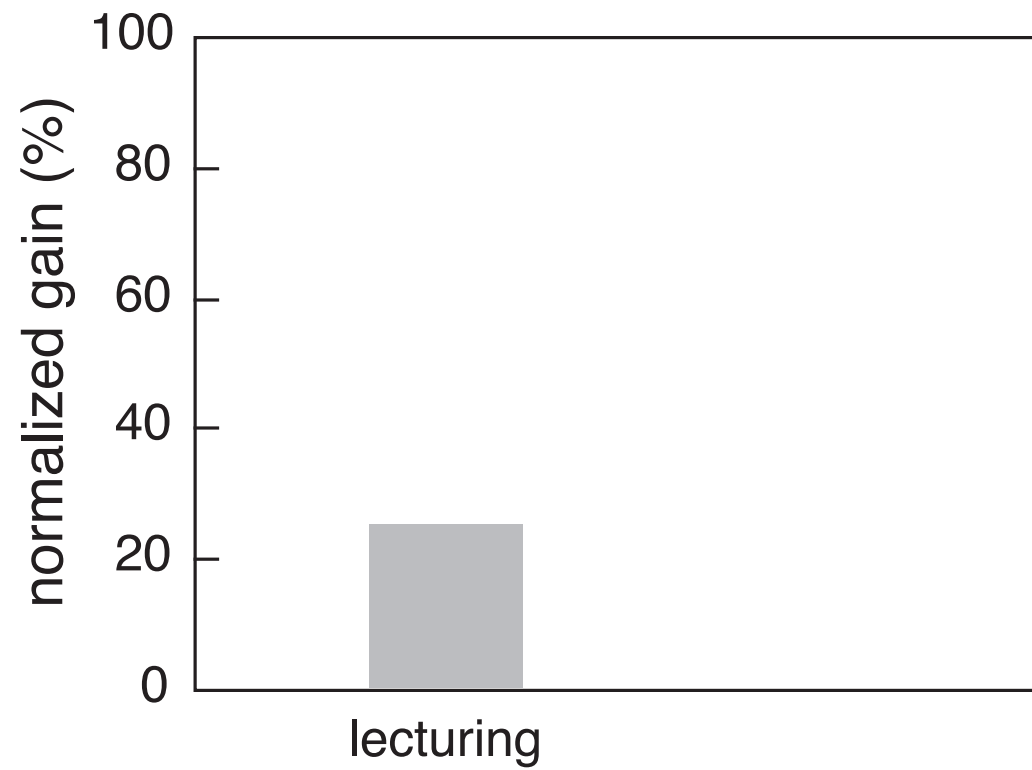
INSTRUCTION

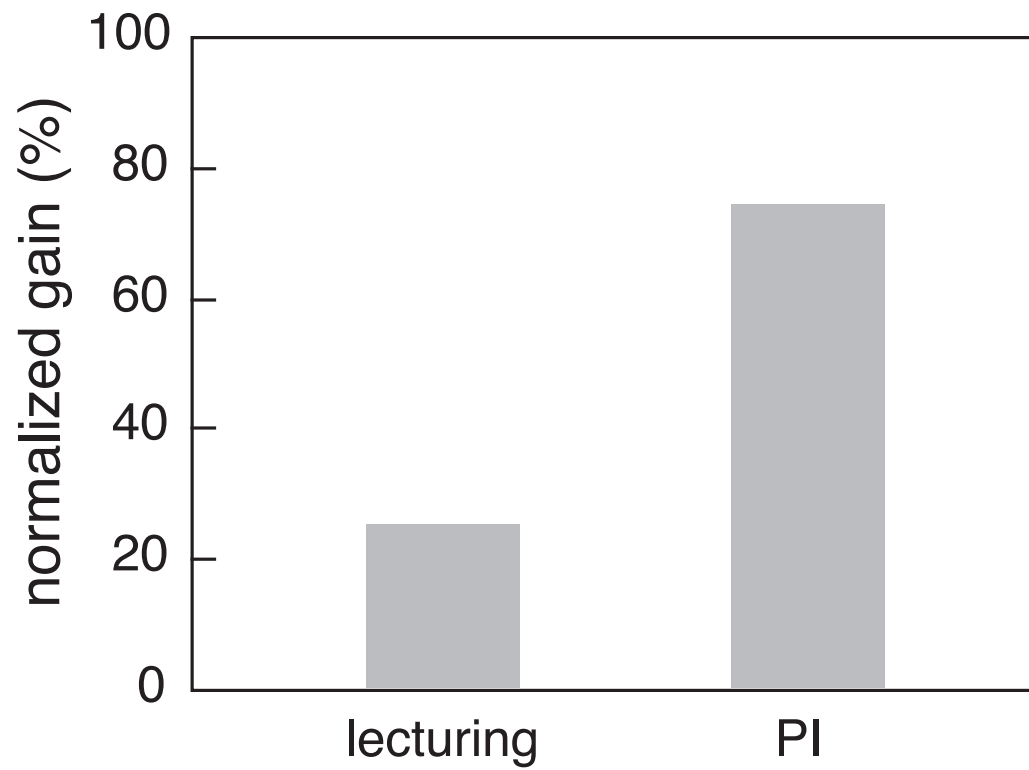




Higher learning gains

INSTRUCTION





Higher learning gains

Better retention

INSTRUCTION

quick reflection



The background of the slide is a faded, artistic illustration of a person's face, focusing on the eyes. The face is rendered in a sketchy, painterly style with muted colors. The eyes are large and expressive, looking directly forward. The overall tone is contemplative and artistic. The text is overlaid on this background.

quick reflection

think of something you are good at

The background of the slide is a faded, artistic illustration of a man's face, possibly a historical figure, rendered in a style that resembles a book cover or a classical painting. The man has dark hair and is looking slightly to the side. The text 'quick reflection' is overlaid on the upper part of the face. The overall color palette is muted, with soft blues, greys, and a hint of red on the right side.

quick reflection

how did you become good at that?



Education is not just about:

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



Education is not just about:

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

active engagement/social interaction a must!

for a copy of these slides

mazur.harvard.edu

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