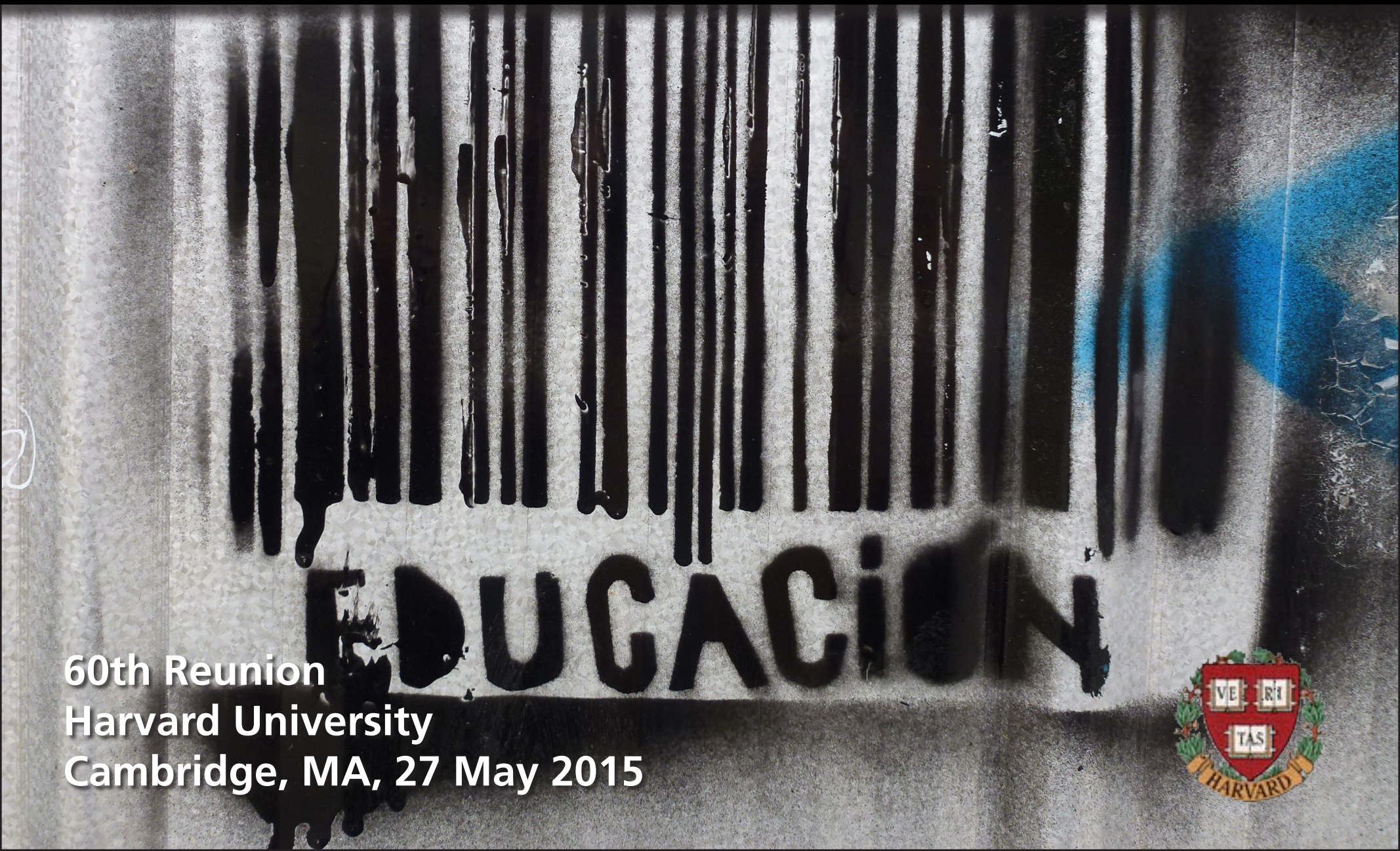


Educating: one-on-one, all at once



60th Reunion
Harvard University
Cambridge, MA, 27 May 2015



Educating: one-on-one, all at once

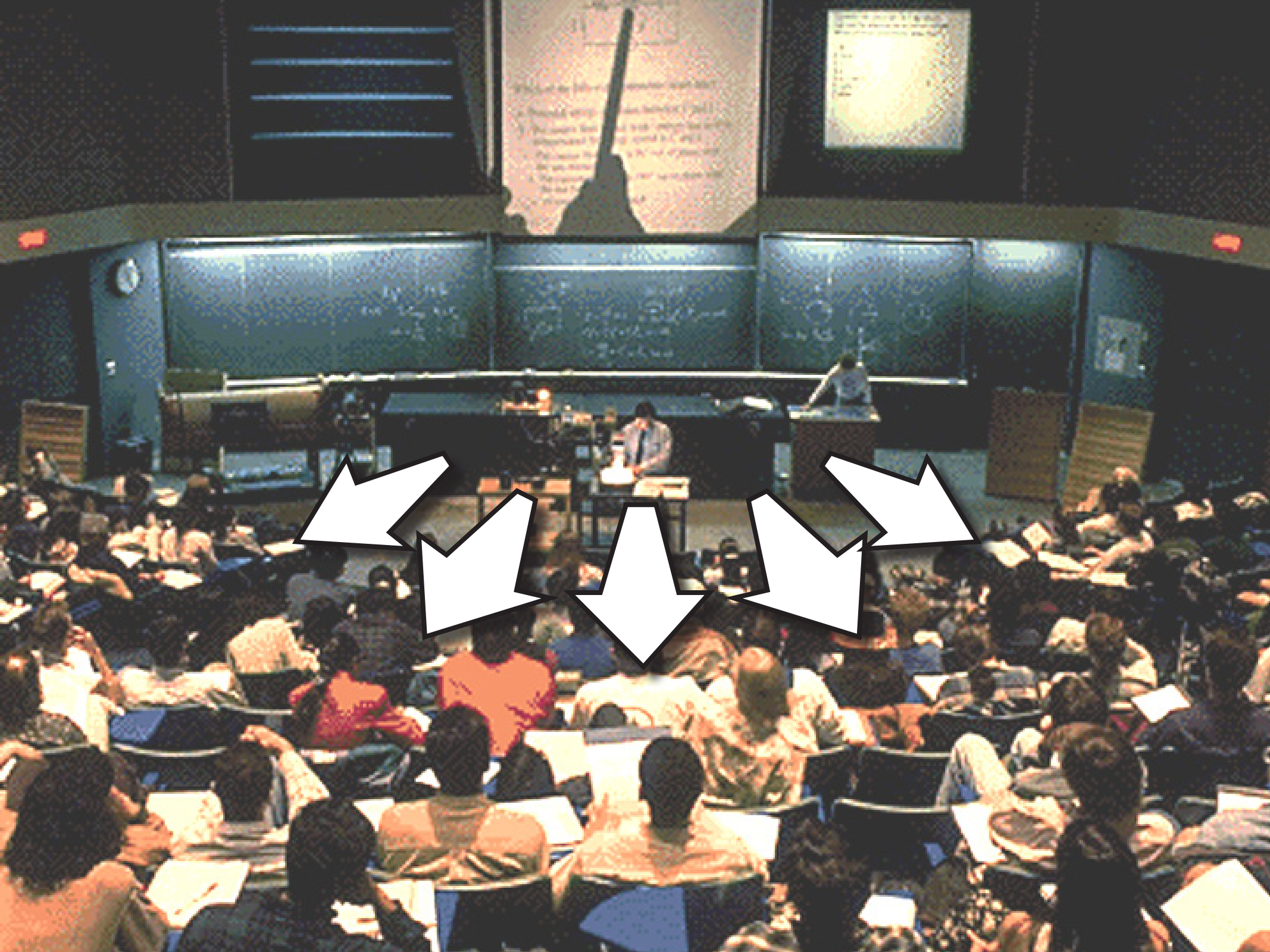


@eric_mazur

60th Reunion
Harvard University
Cambridge, MA, 27 May 2015







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

1. Project manager's skills and experience

2. Clear communication and reporting structure

3. Realistic budget and time schedule

4. Supportive organizational culture

5. Effective risk management

6. Strong leadership and team motivation

7. Regular monitoring and control

8. Flexibility and adaptability to change

9. Good stakeholder management

10. Clear roles and responsibilities

Project	Start	End	Duration
A	1/1/2020	31/12/2020	365
B	1/1/2021	31/12/2021	365
C	1/1/2022	31/12/2022	365
D	1/1/2023	31/12/2023	365
E	1/1/2024	31/12/2024	365

Project Management

Project Management is the application of knowledge, skills, tools, and techniques to meet the requirements of a project.

Project Management is a discipline that involves the application of knowledge, skills, tools, and techniques to meet the requirements of a project.

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The image features a painting of a face, possibly by a surrealist artist, with large, expressive eyes looking through horizontal slats. The background is a mix of yellow and red tones. 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)

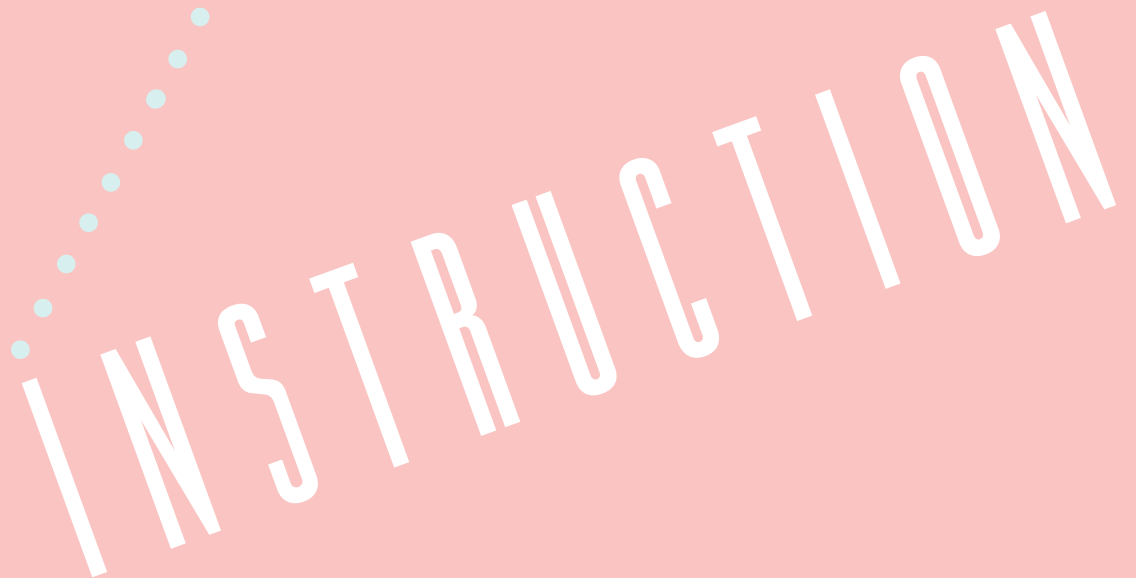
Peer



1. transfer of information (out of class)

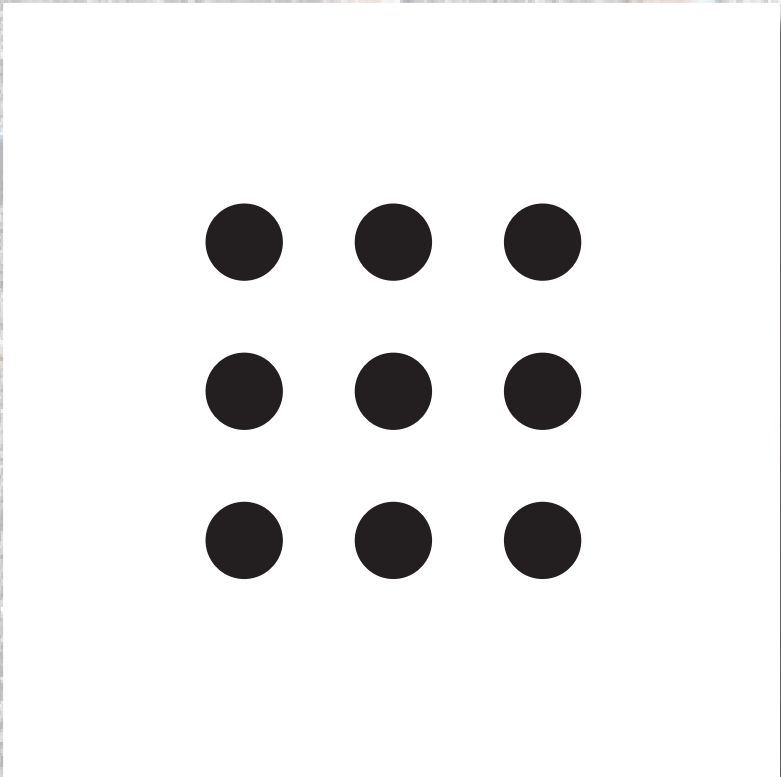
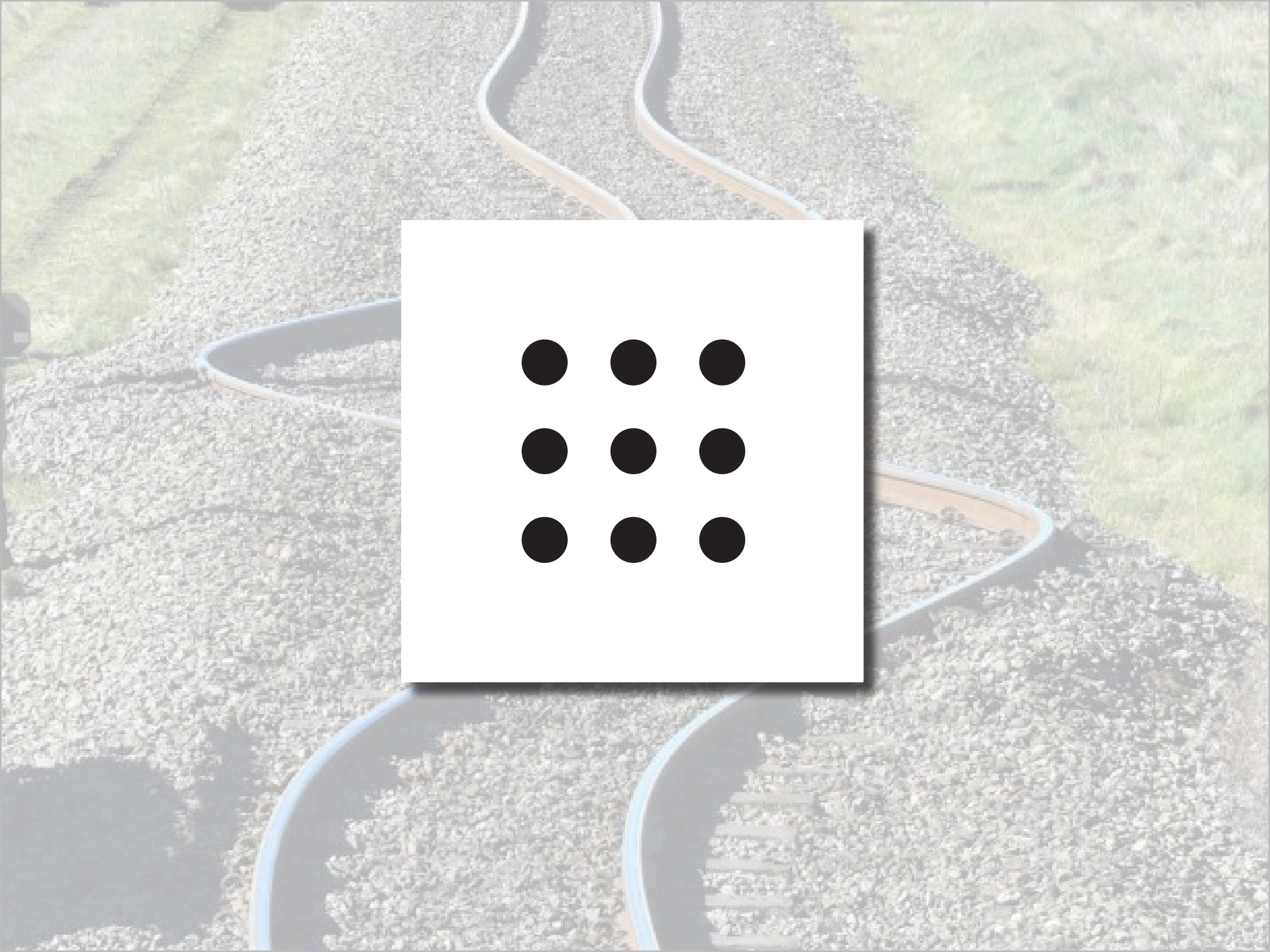
2. assimilation of that information (in class)

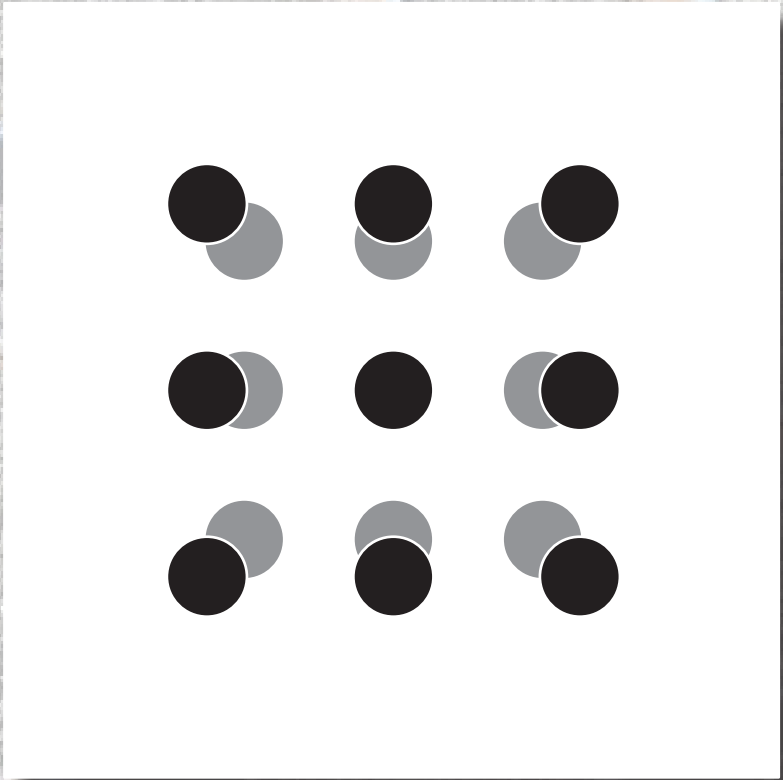
INSTRUCTION



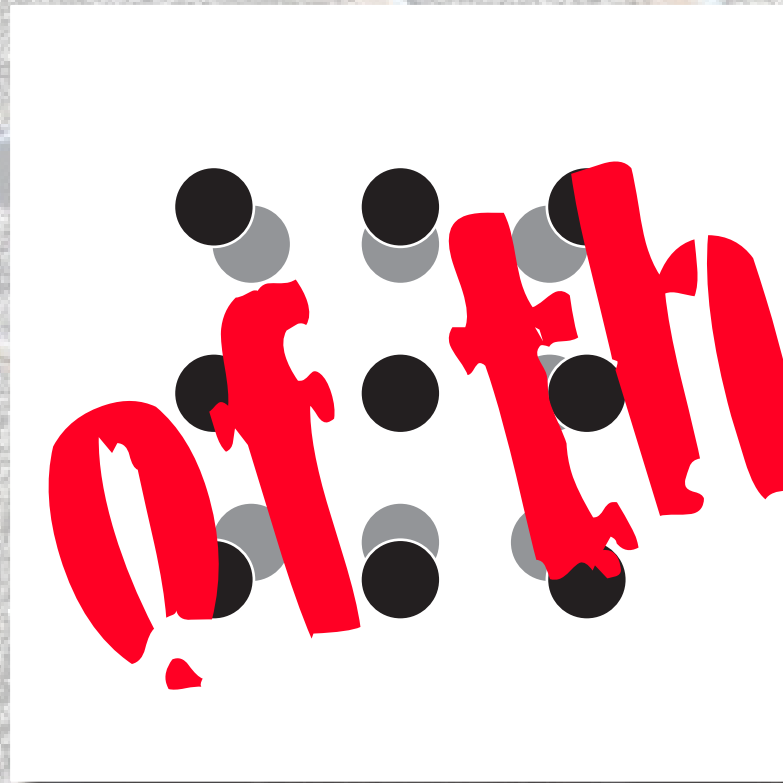
A photograph showing a railway track with a wavy, undulating track bed. The track is composed of gravel and wooden sleepers. The wavy pattern is a result of thermal expansion and contraction of the rails over time. The text "thermal expansion" is overlaid on the image.

thermal expansion

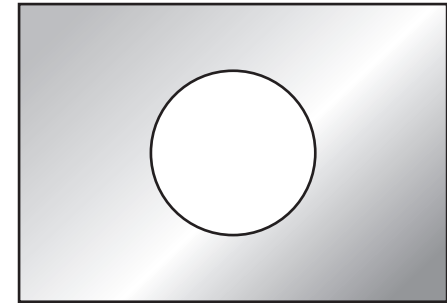




all of them!

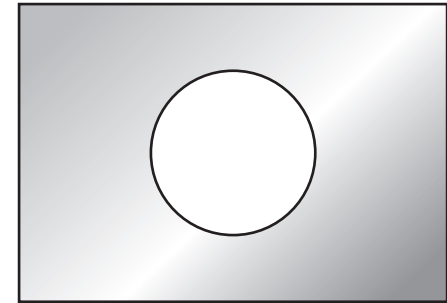


**Consider a rectangular metal plate
with a circular hole in it.**



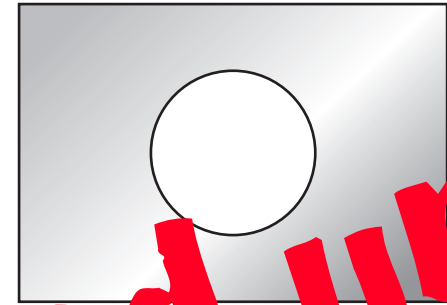
Consider a rectangular metal plate with a circular hole in it.

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

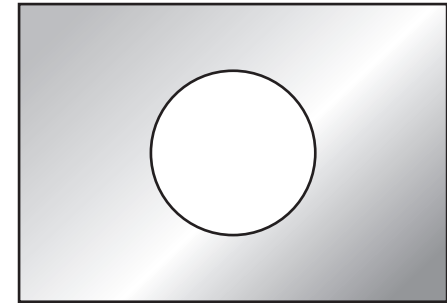
1. increases.
2. stays the same.
3. decreases.

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**

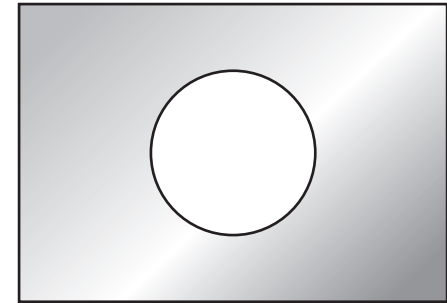
Before I tell you the answer, let's analyze what happened.

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**

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

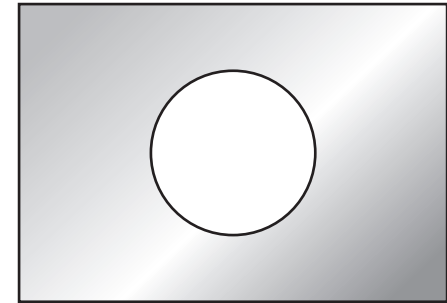
When the plate is uniformly heated, the diameter of the hole



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

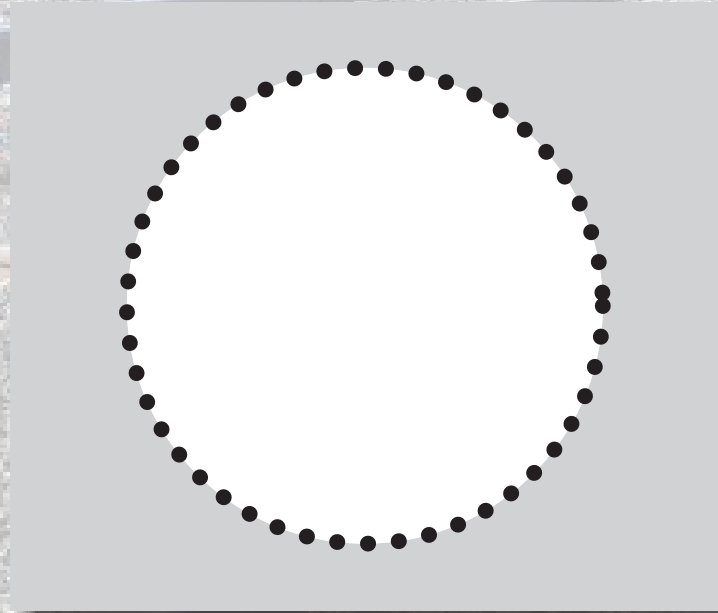
Consider a rectangular metal plate with a circular hole in it.

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

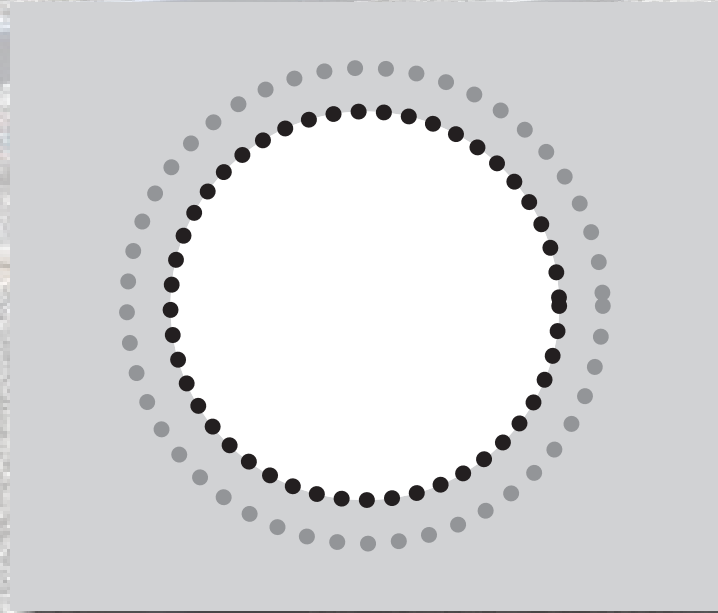


- 1. increases. ✓**
2. stays the same.
3. decreases.

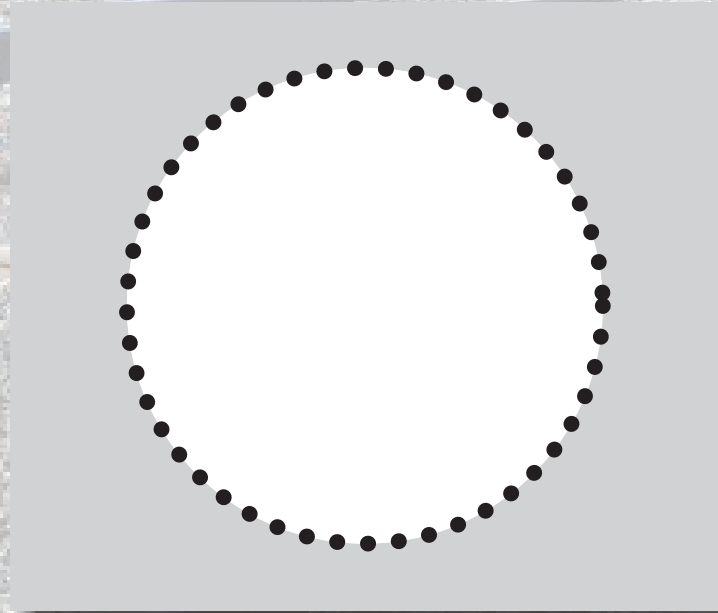
consider atoms at rim of hole



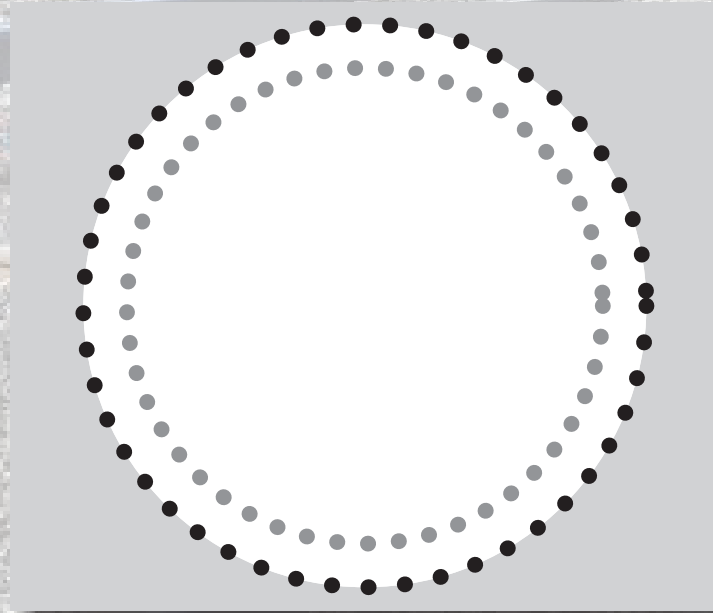
consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole



consider atoms at rim of hole

you won't forget this





Education is not just about:

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

active participation a must!



Education is not just about:

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

ericmazur.com

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