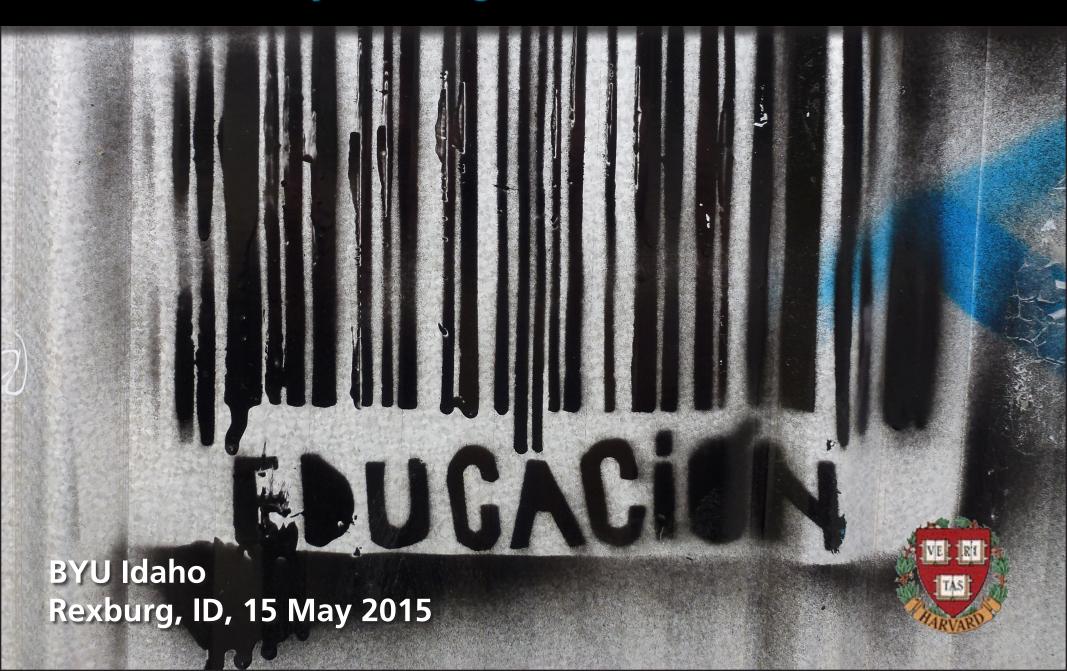
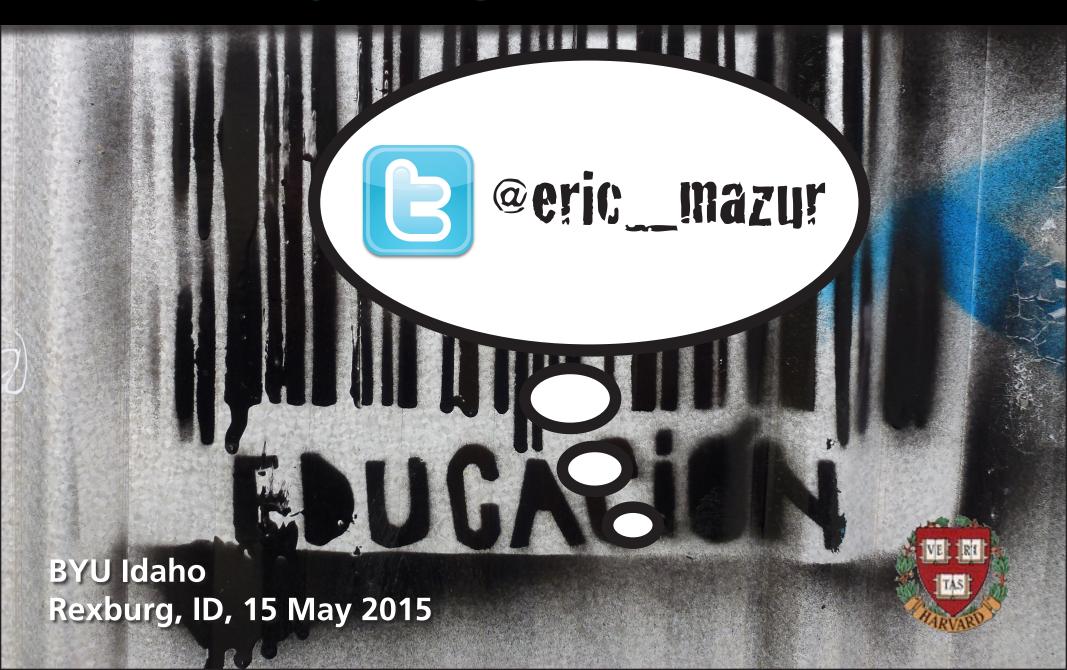
## How student learning transformed my teaching





## How student learning transformed my teaching







- no ON/OFF button
- only last "click" counts
- display shows recorded answer

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Think of something you are good at

Think of something you are good at

How did you become good at this?

## Became good at it by:

- 1. trial and error
- 2. lectures
- 3. practicing
- 4. apprenticeship
- 5. other











2 PI

3

test



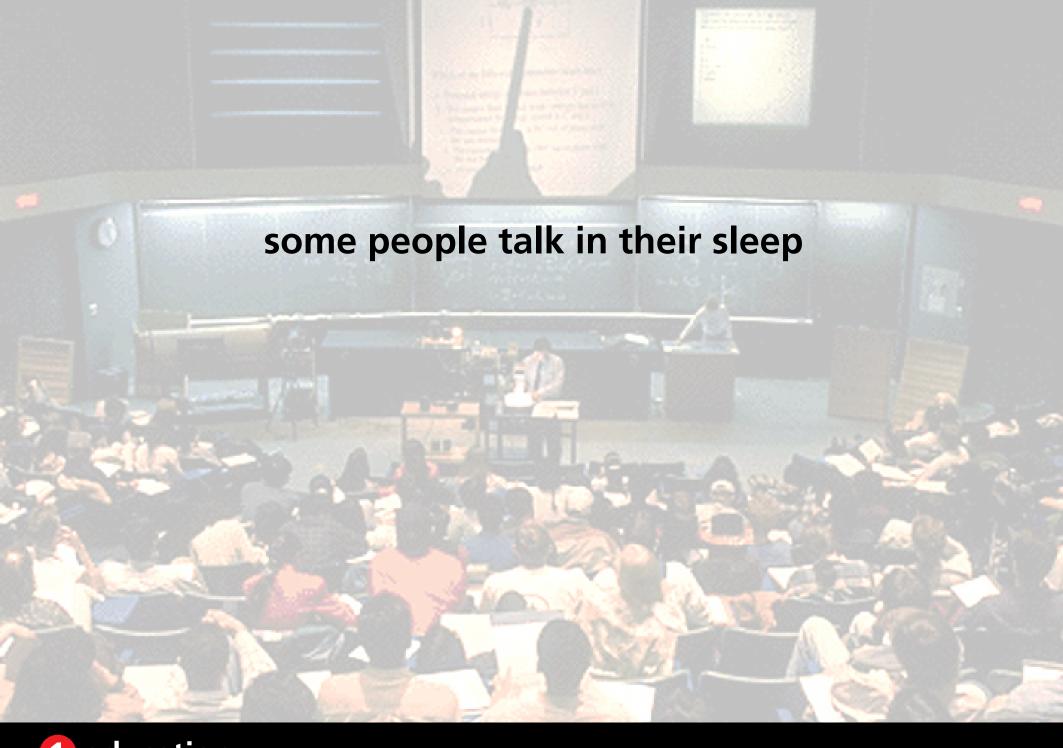
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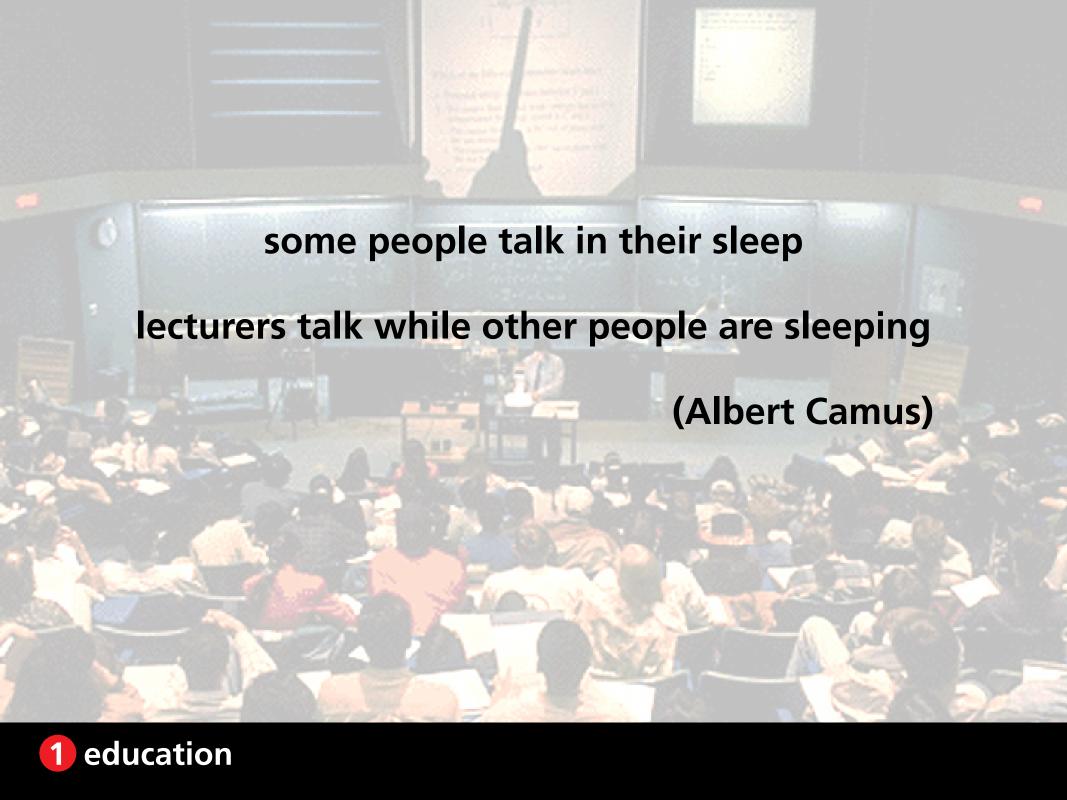
3

test

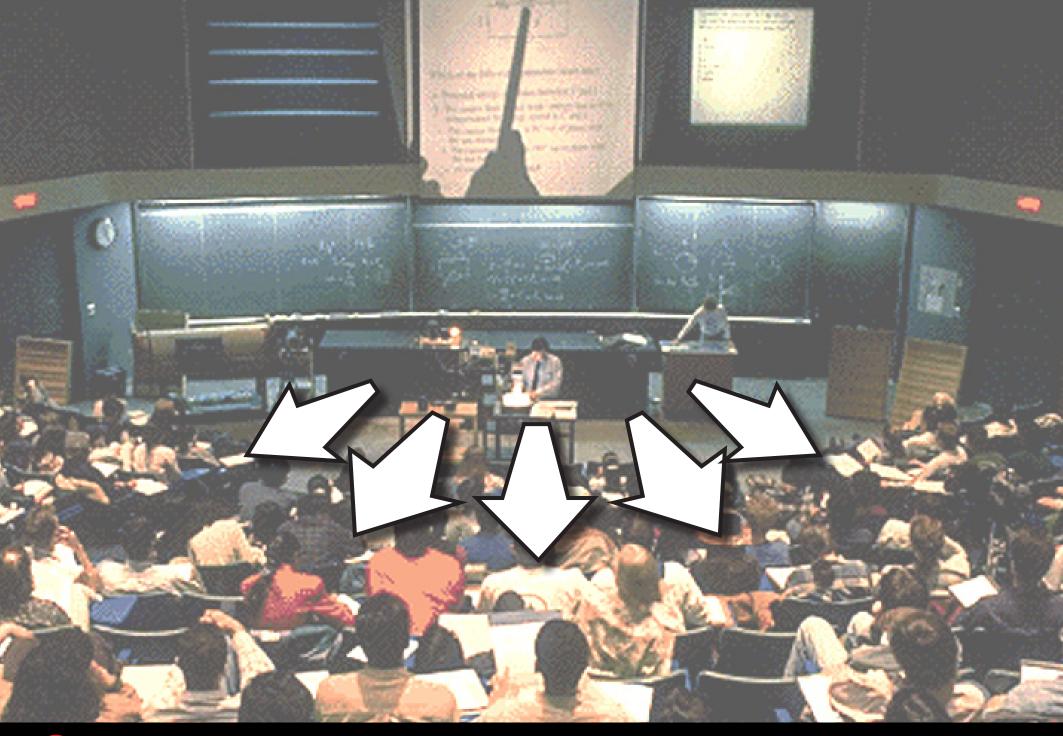


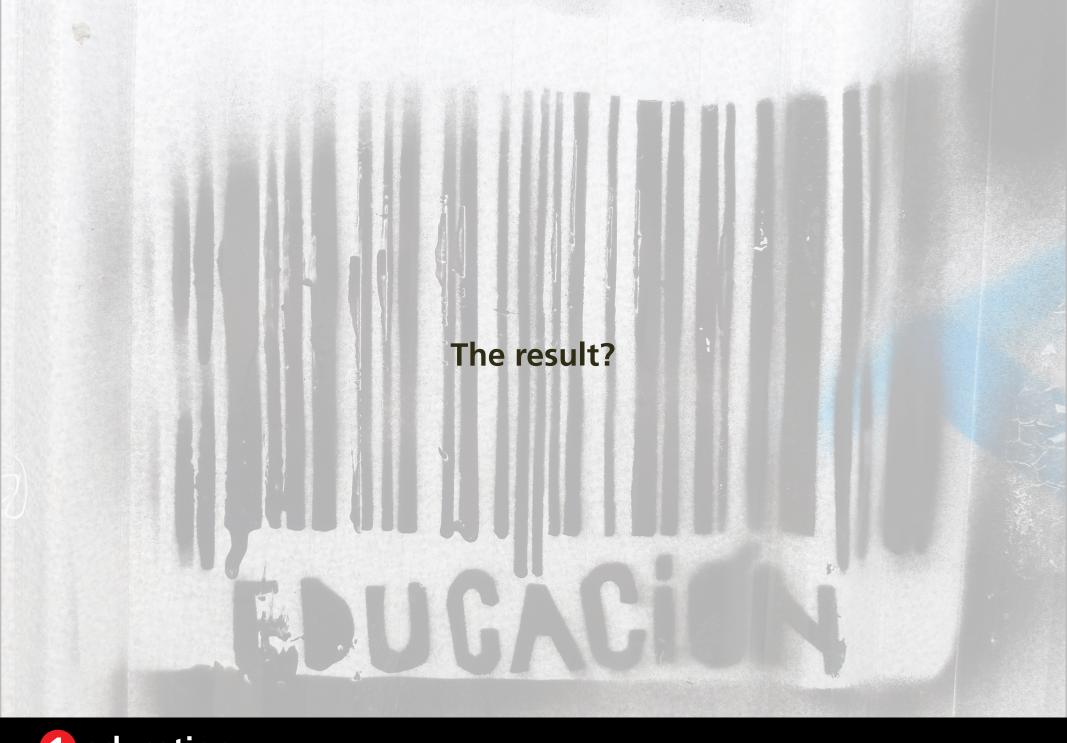


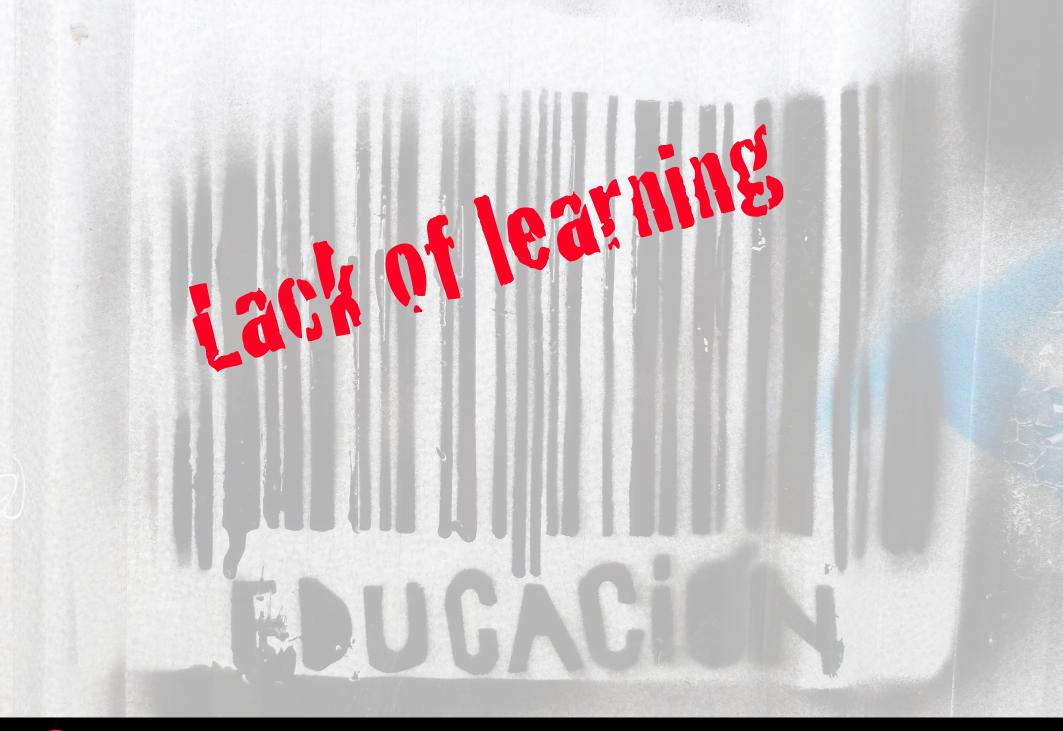




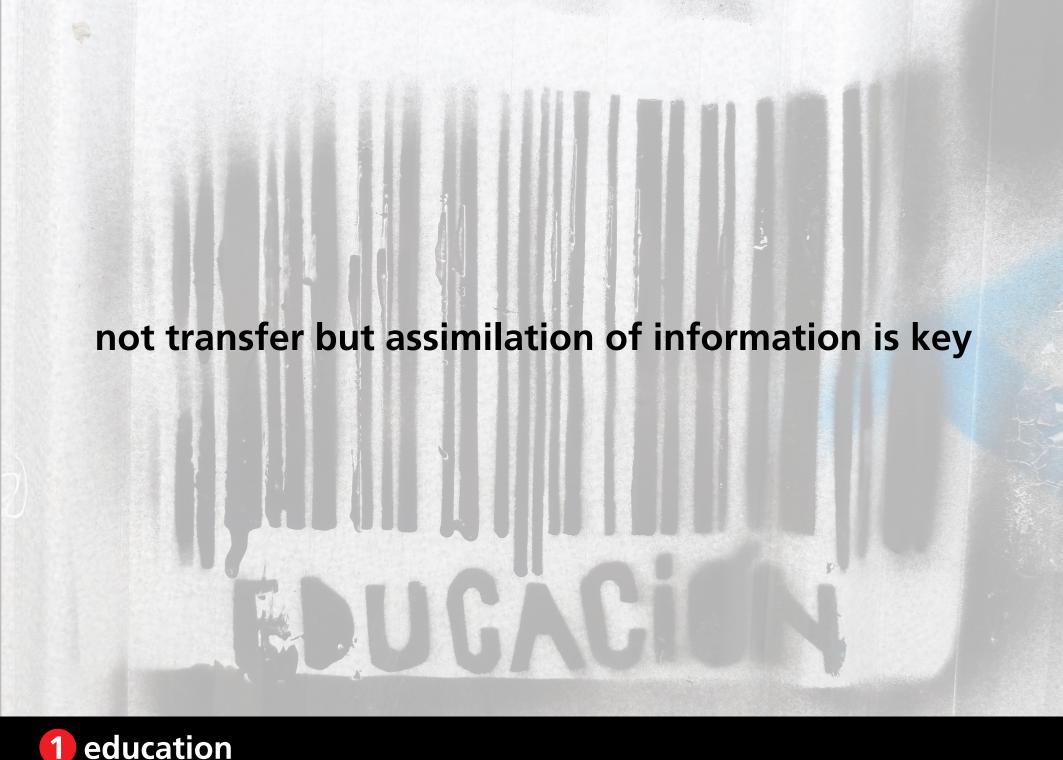




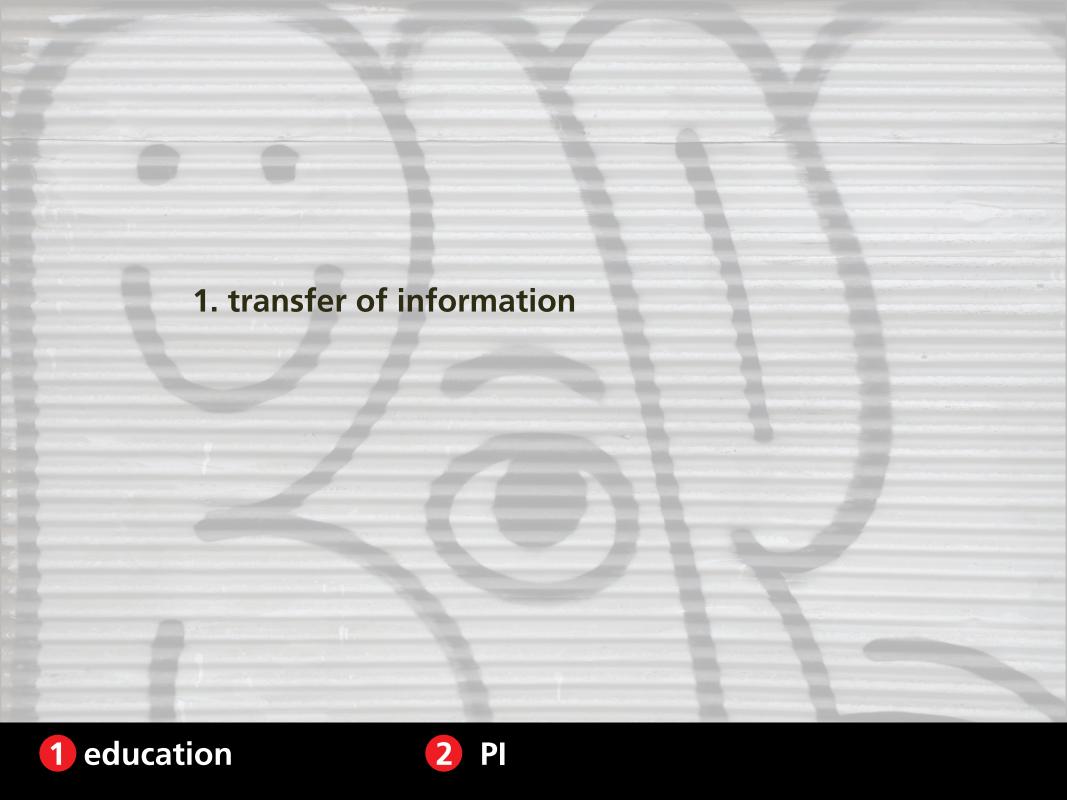












1. transfer of information

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 (i)

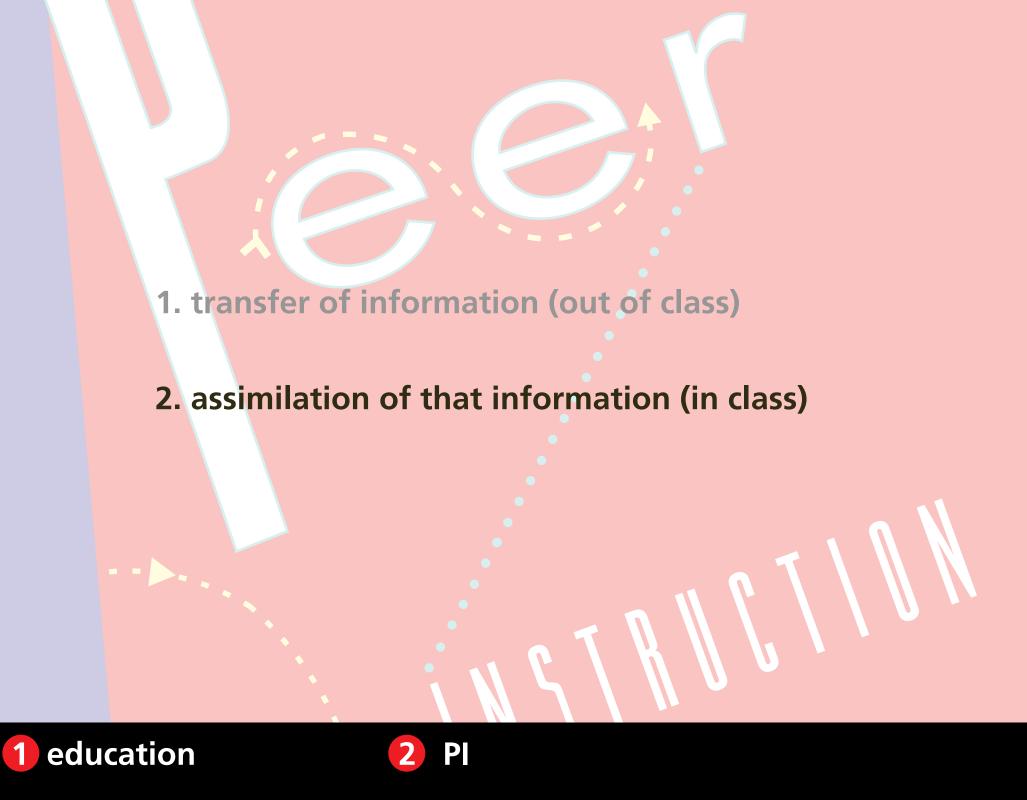
2. assimilation of that information (out of class)

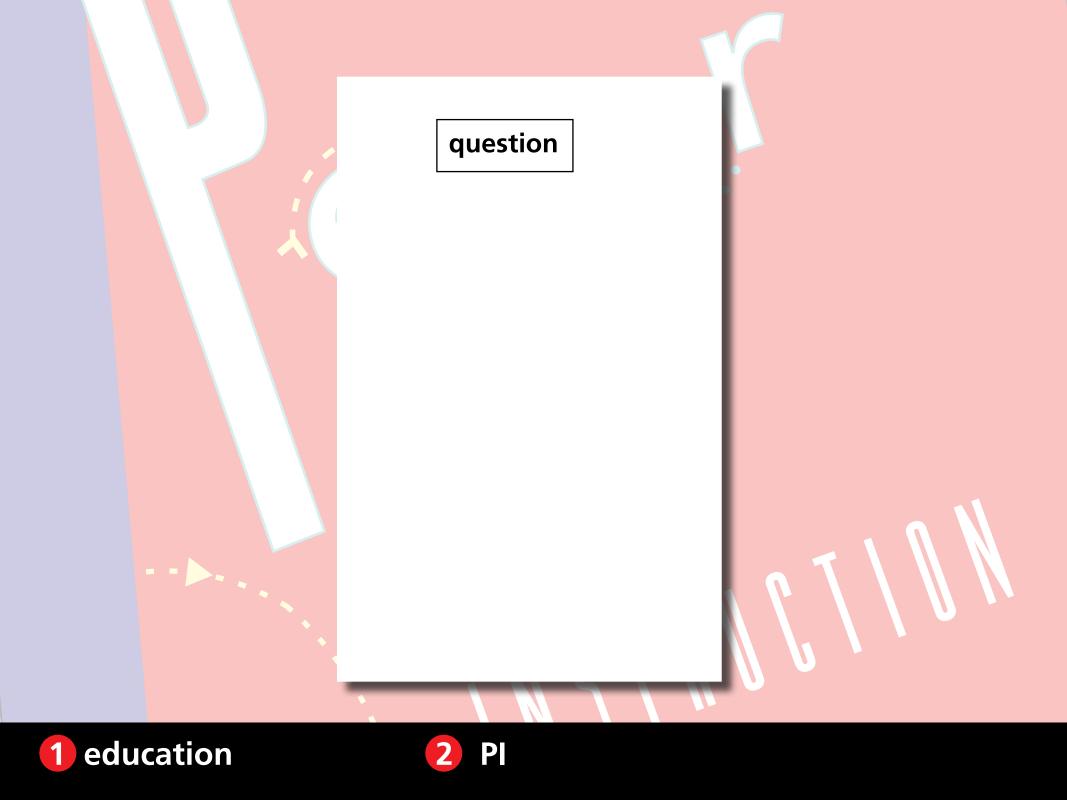
1. transfer of information (in class)

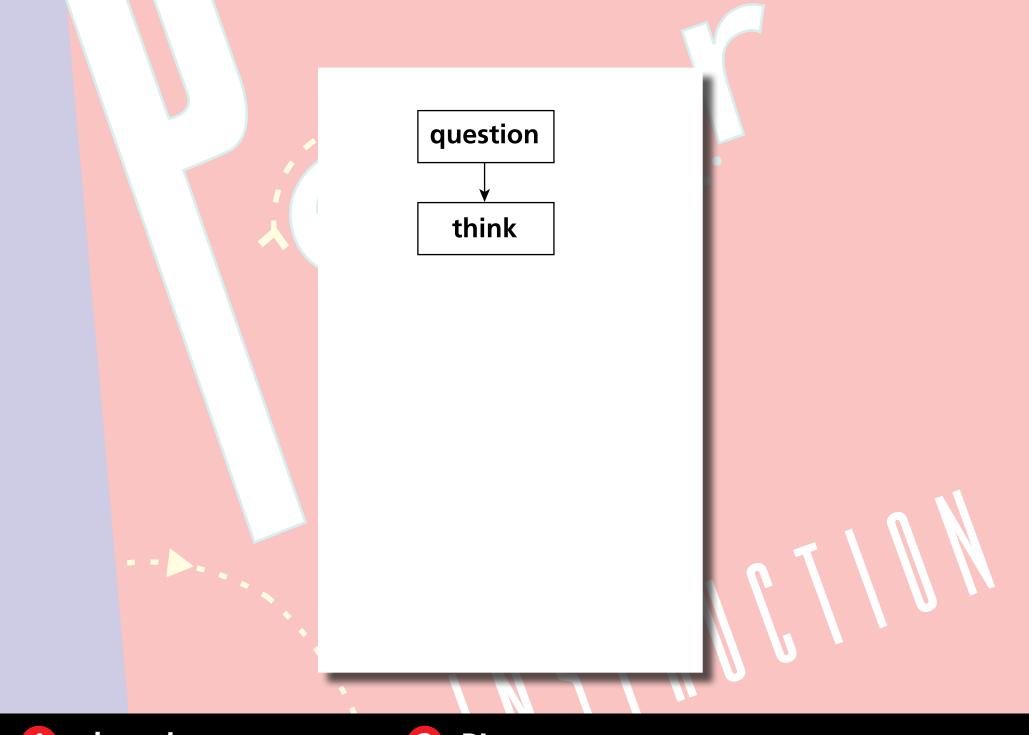
2. assimilation of that information (out of class)

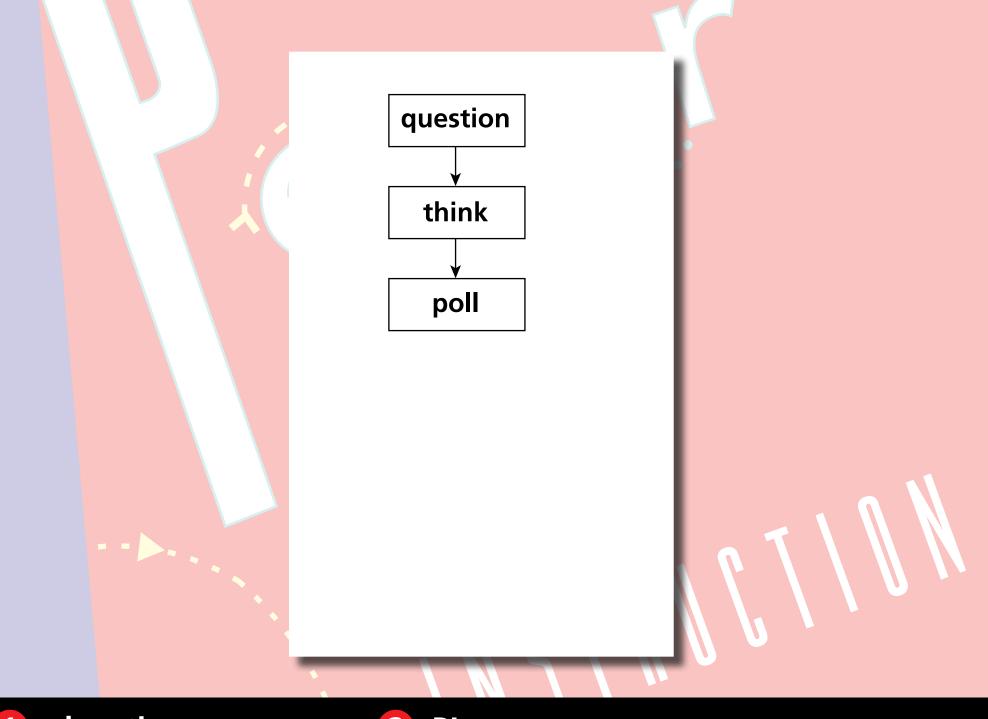
1. transfer of information (out of class)

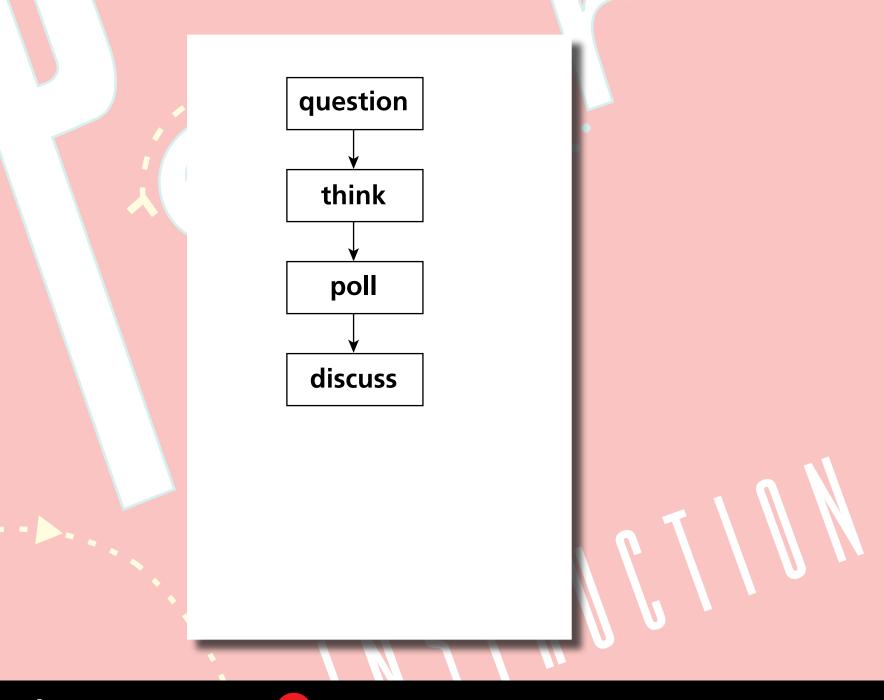
2. assimilation of that information (in class)

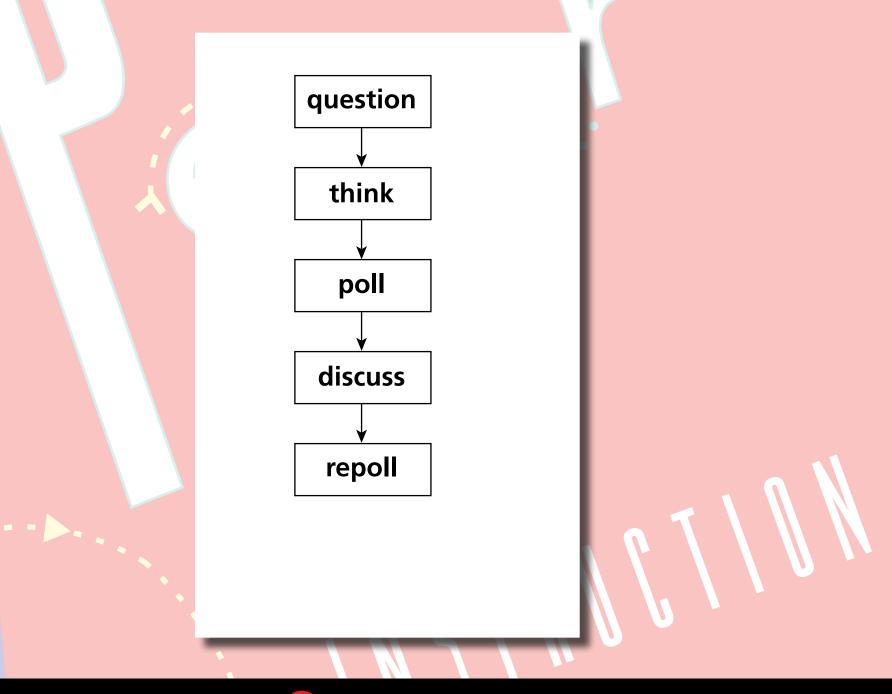


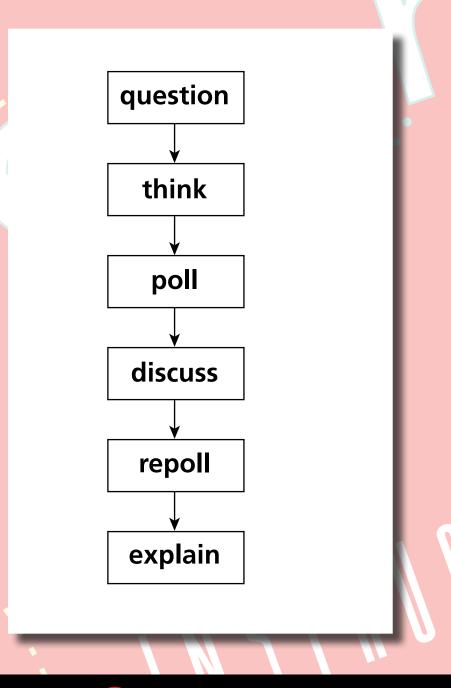


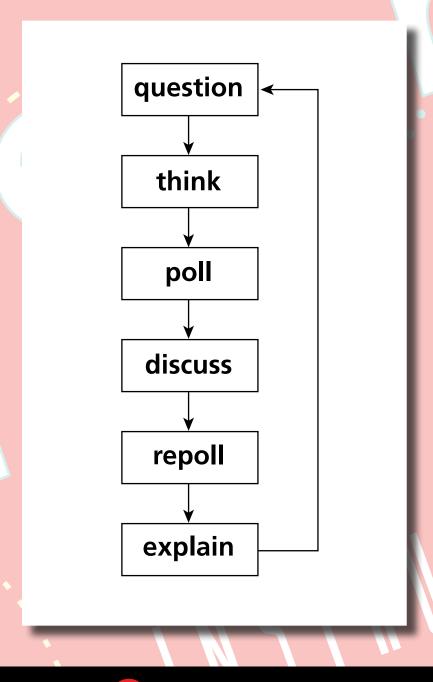


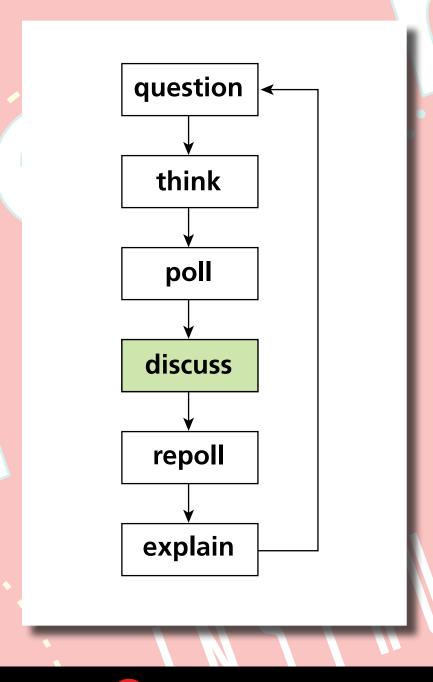


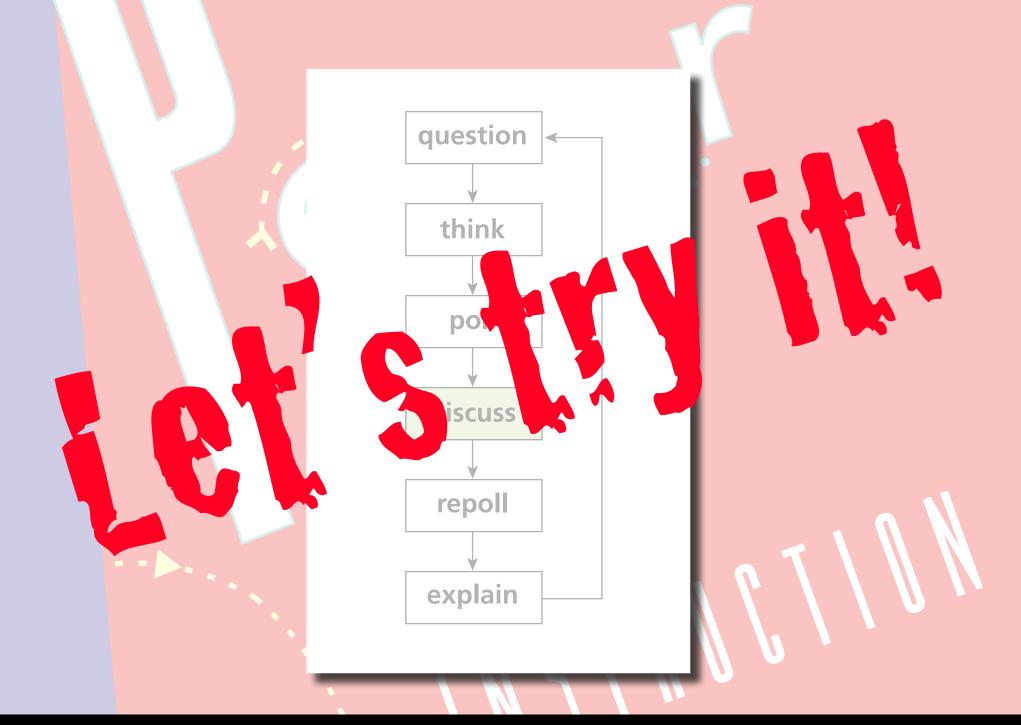




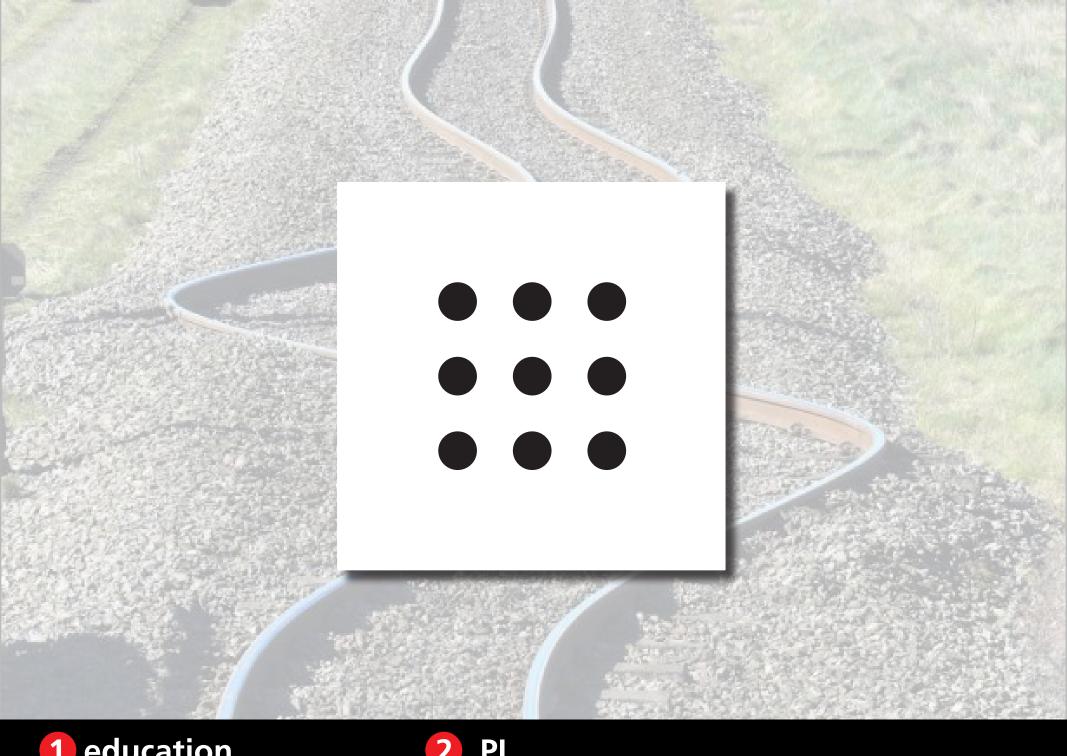


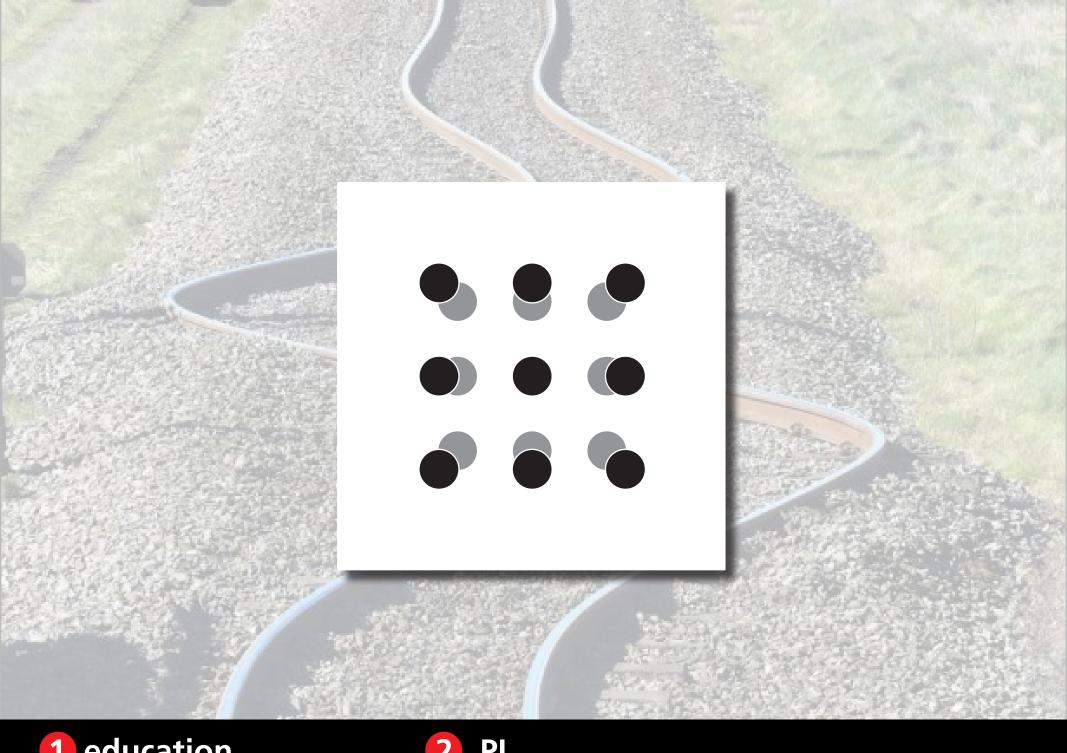




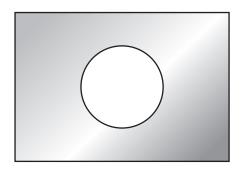






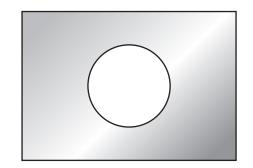




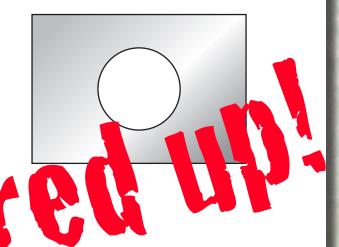


When the plate is uniformly heated, the diameter of the hole

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



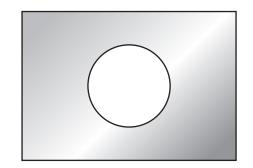
When the plate is uniformly heated, the diameter of the hold



- 1. increases
- 2 stay the same.
- B. a. de ses

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...

You...

1. made a commitment

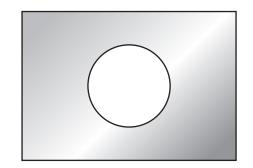
- 1. made a commitment
- 2. externalized your answer

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

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

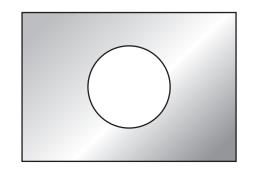
When the plate is uniformly heated, the diameter of the hole

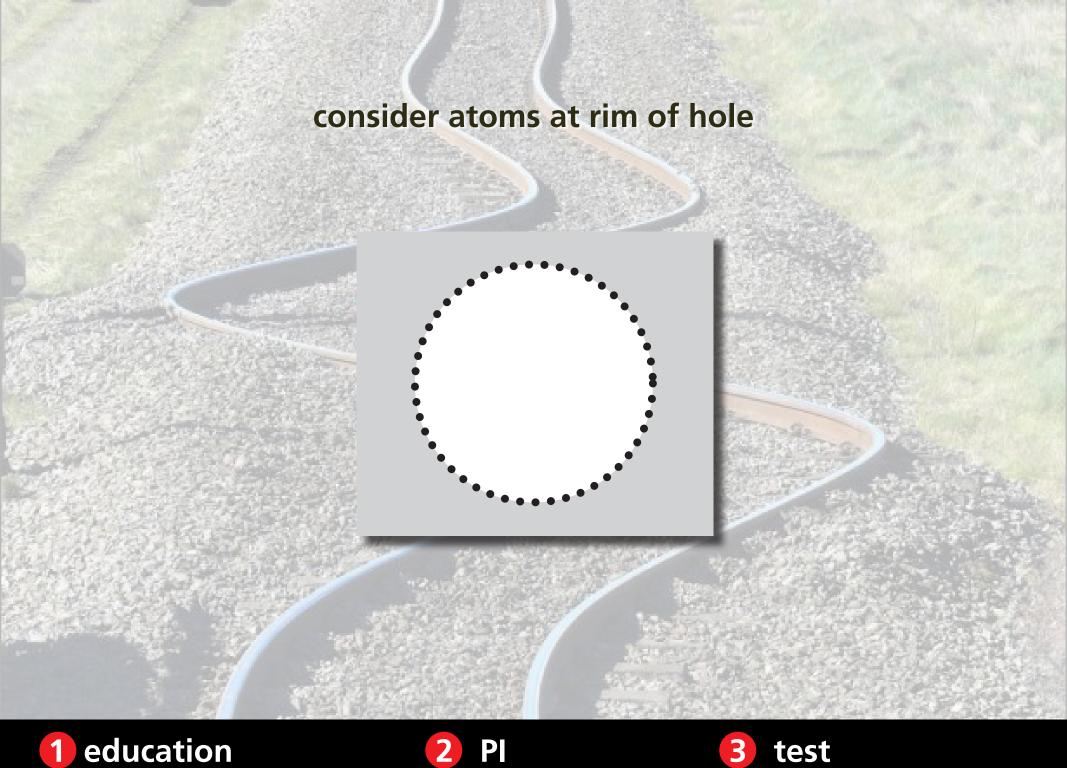
- 1. increases.
- 2. stays the same.
- 3. decreases.

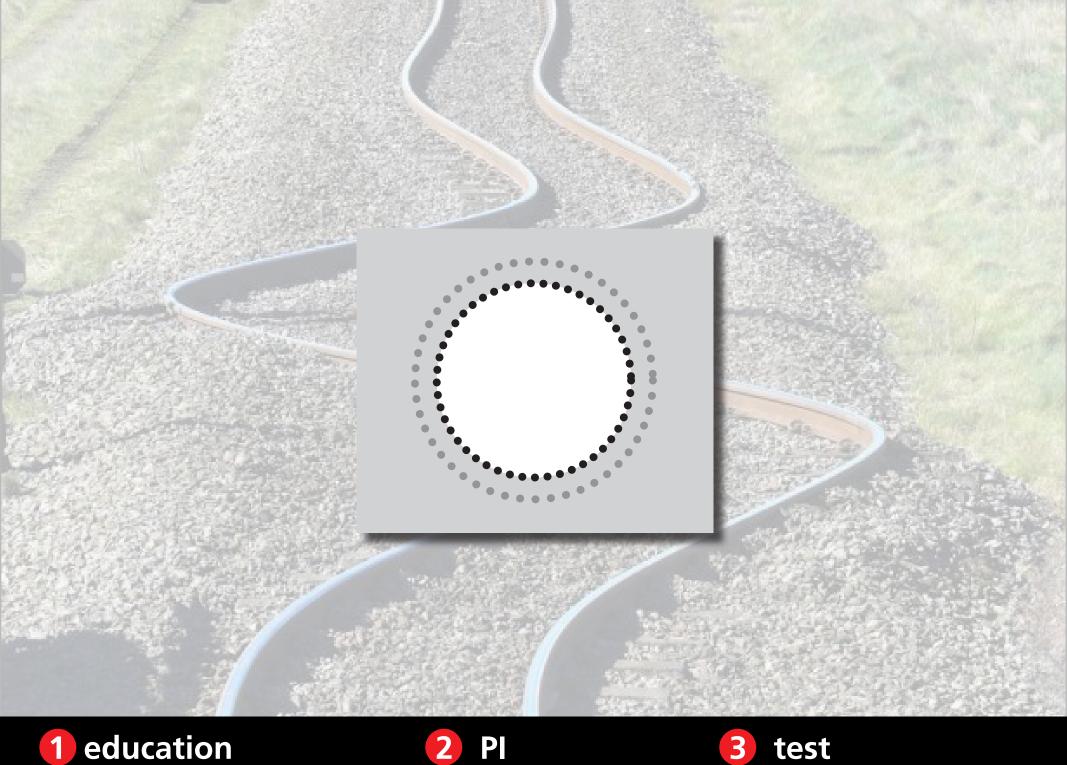


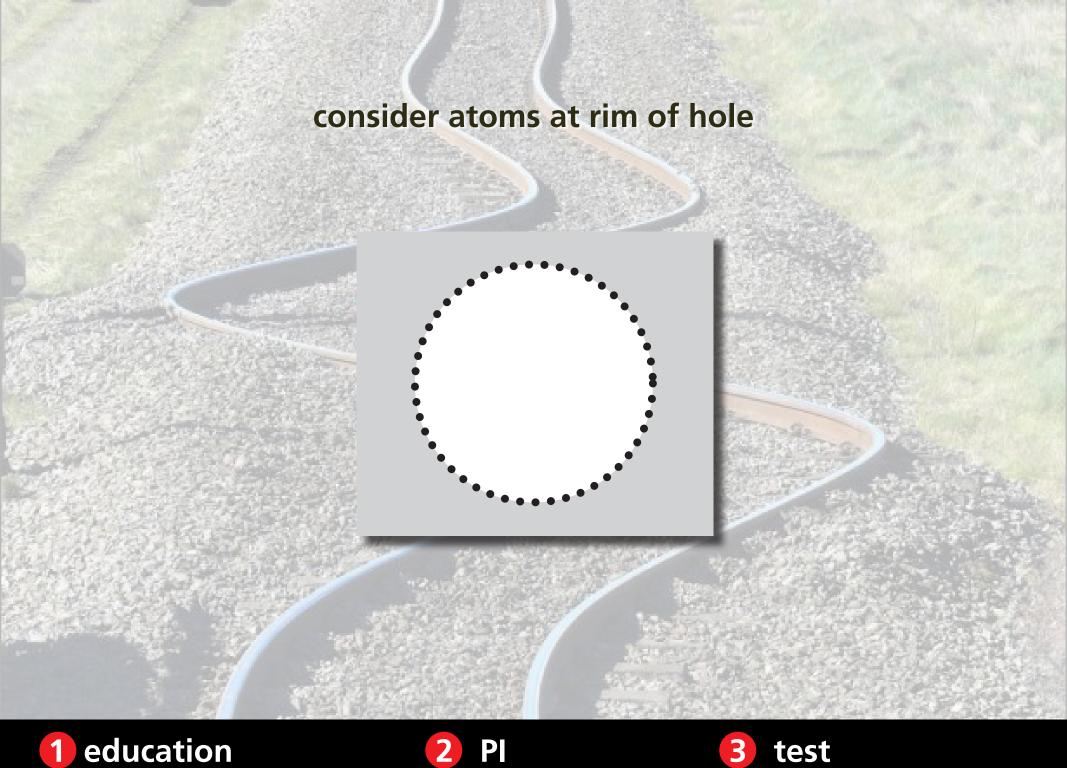
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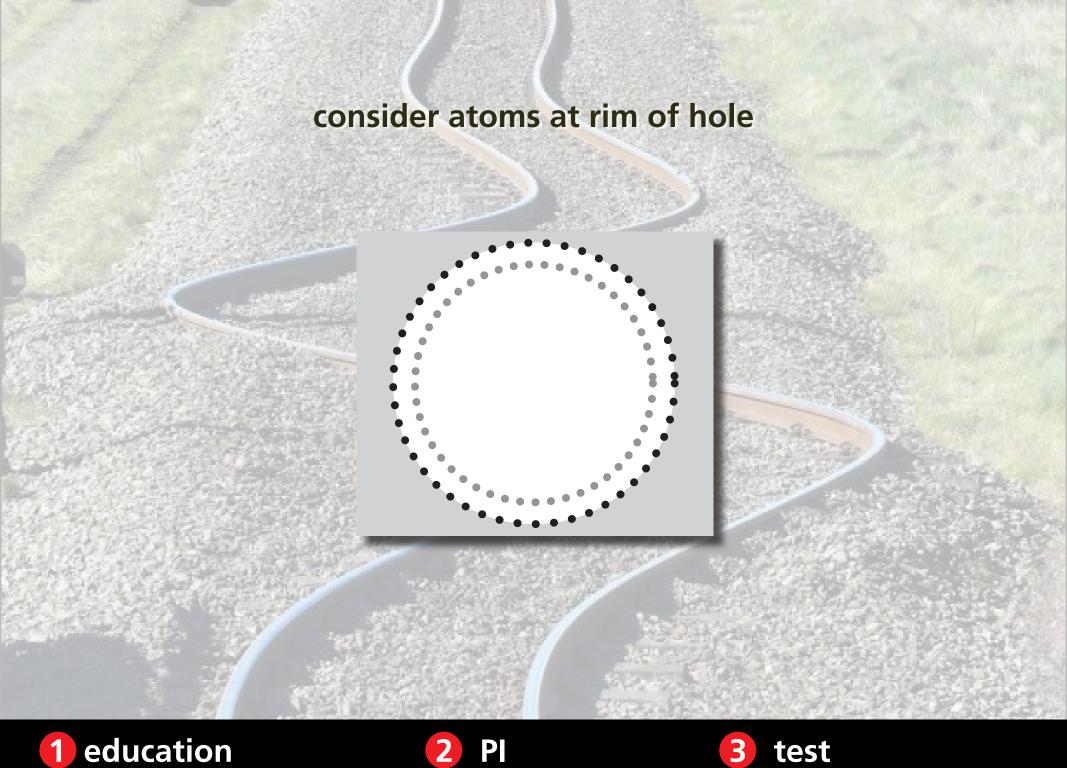
- 1. increases.
- 2. stays the same.
- 3. decreases.











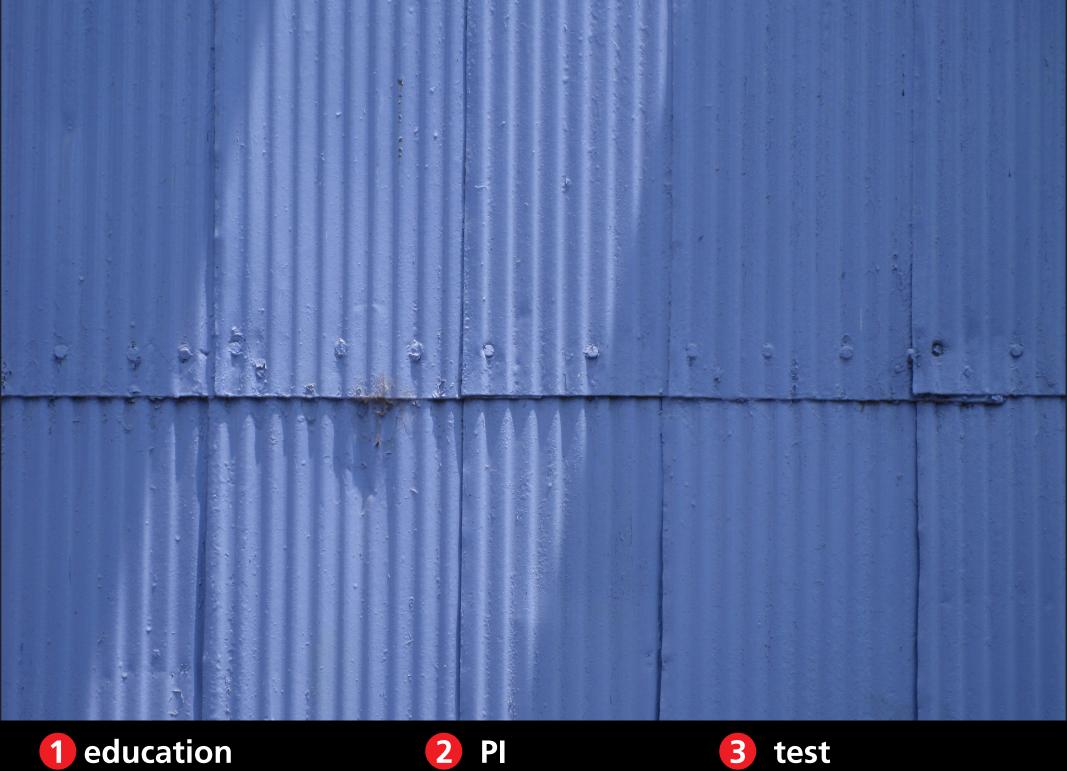








test



in a lecture, students... 1 education test

1. don't pay utmost attention

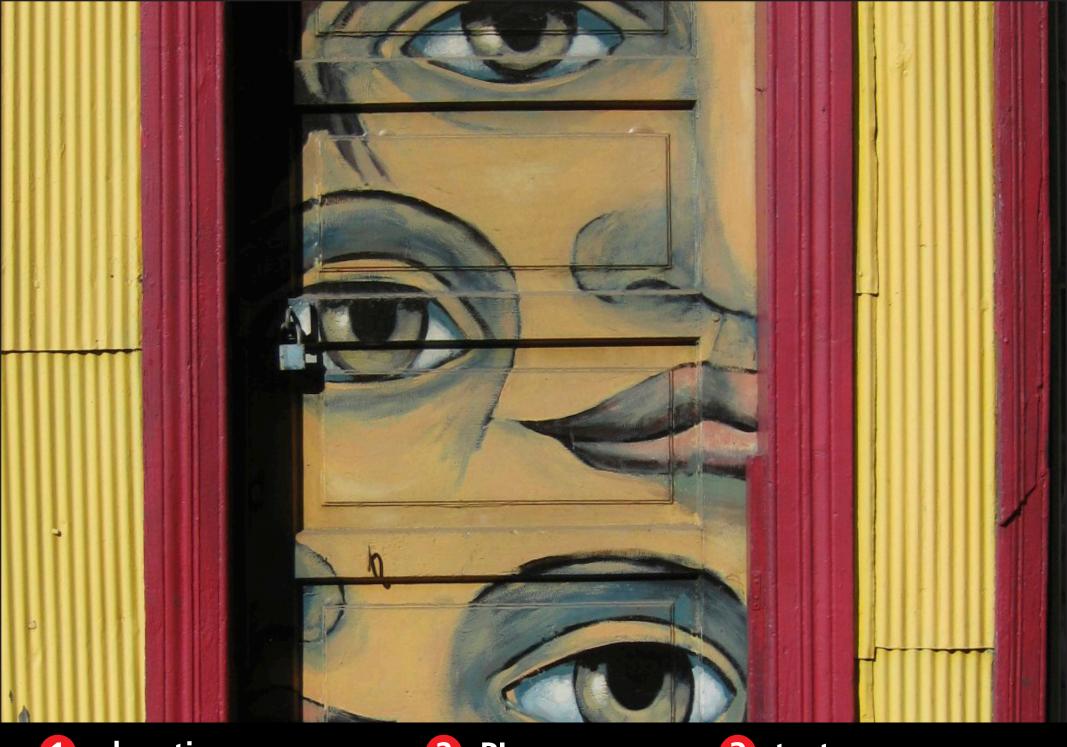
- 1. don't pay utmost attention
- 2. think they know it

1. don't pay utmost attention

2. think they know it

3. are not confronted with misconceptions

- 1. don't pay uthost attention
- 2. think they know it
- 3 treipt onted with misconceptions



2 PI

3

test



**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 participation a must!

## Join now!

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**Funding:** 

**National Science Foundation** 

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