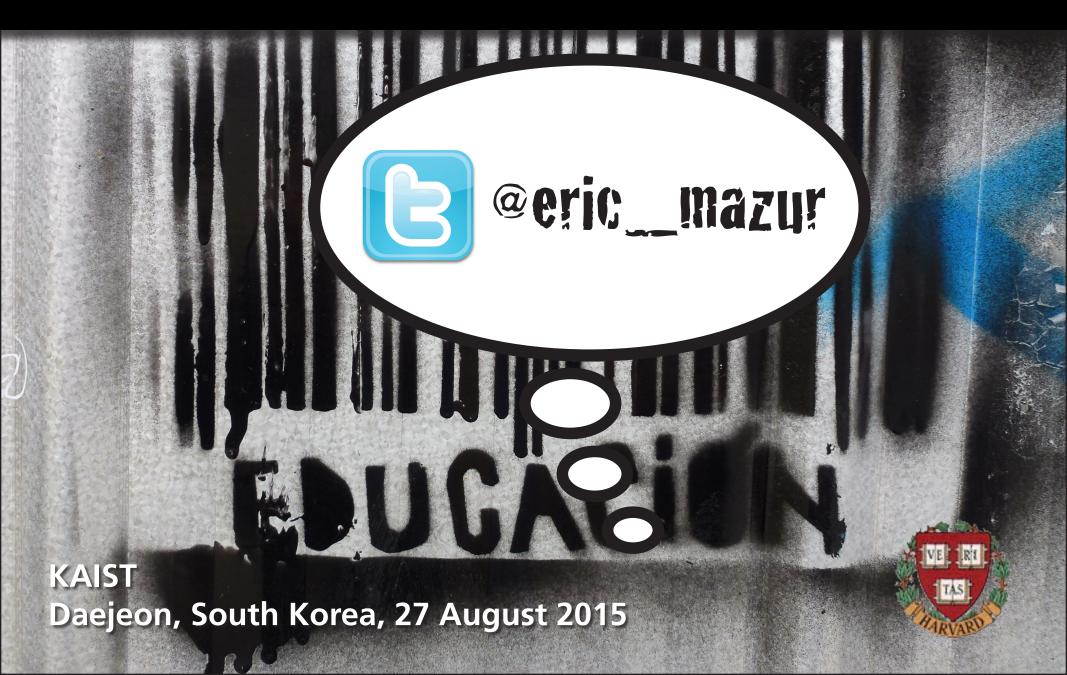
Confessions of a converted lecturer



KAIST Daejeon, South Korea, 27 August 2015

Confessions of a converted lecturer







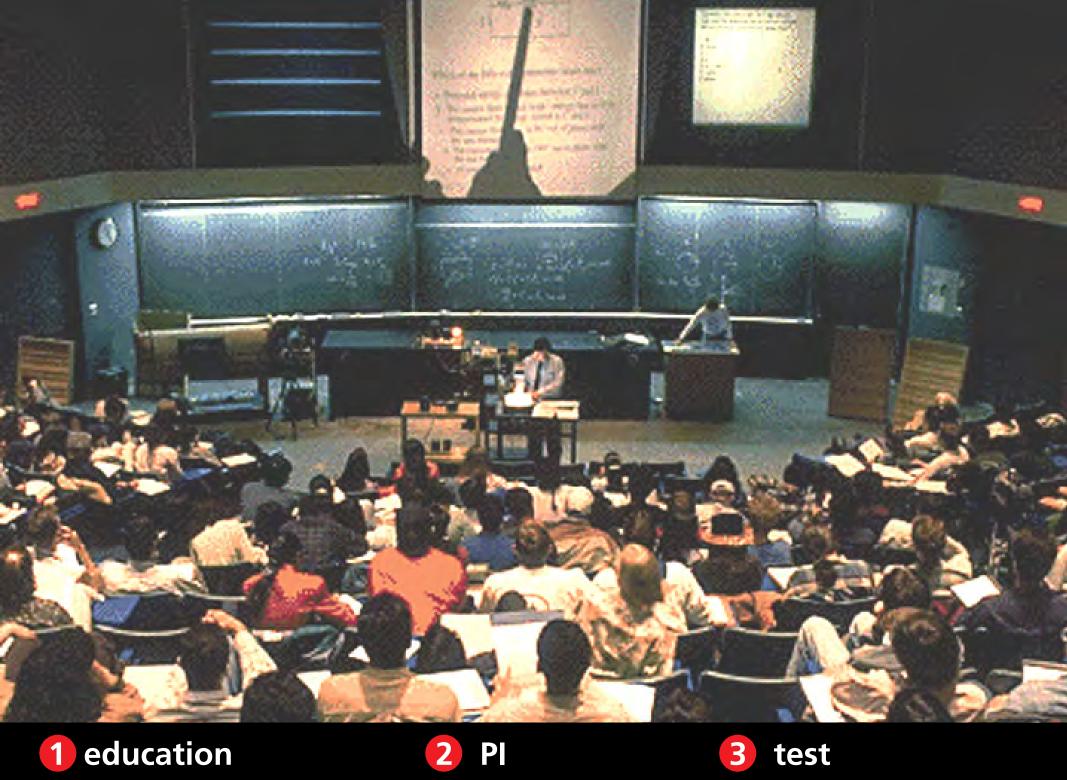






education





better pay attention!





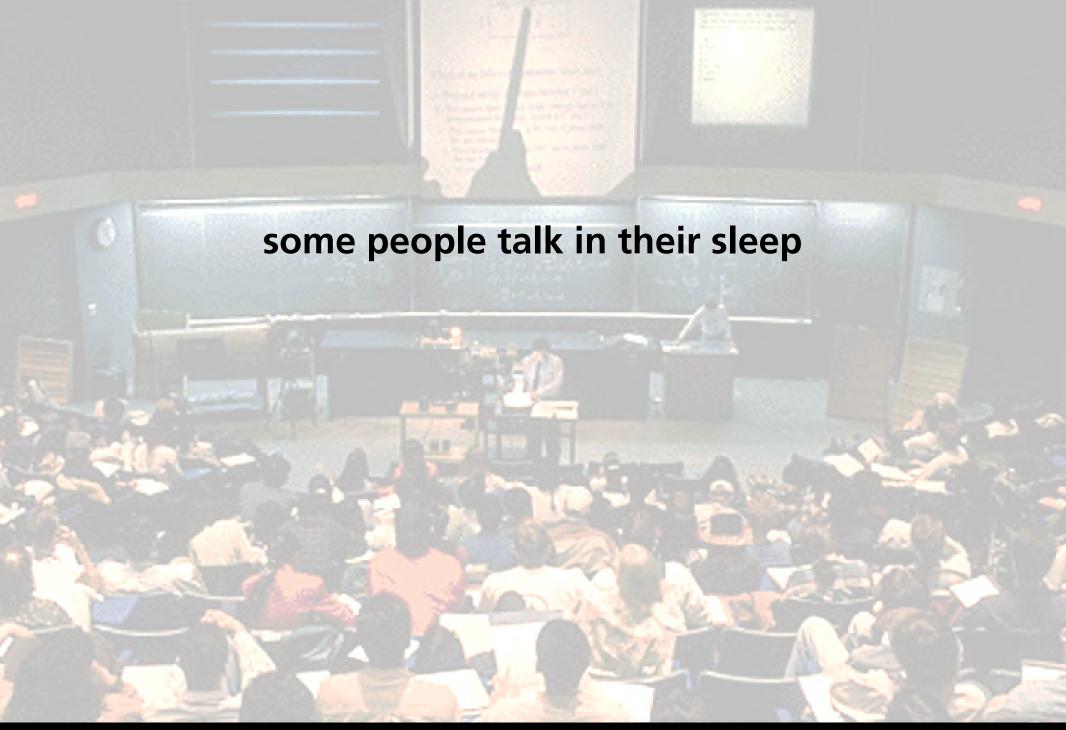
3 test

What happens in a lecture?













some people talk in their sleep

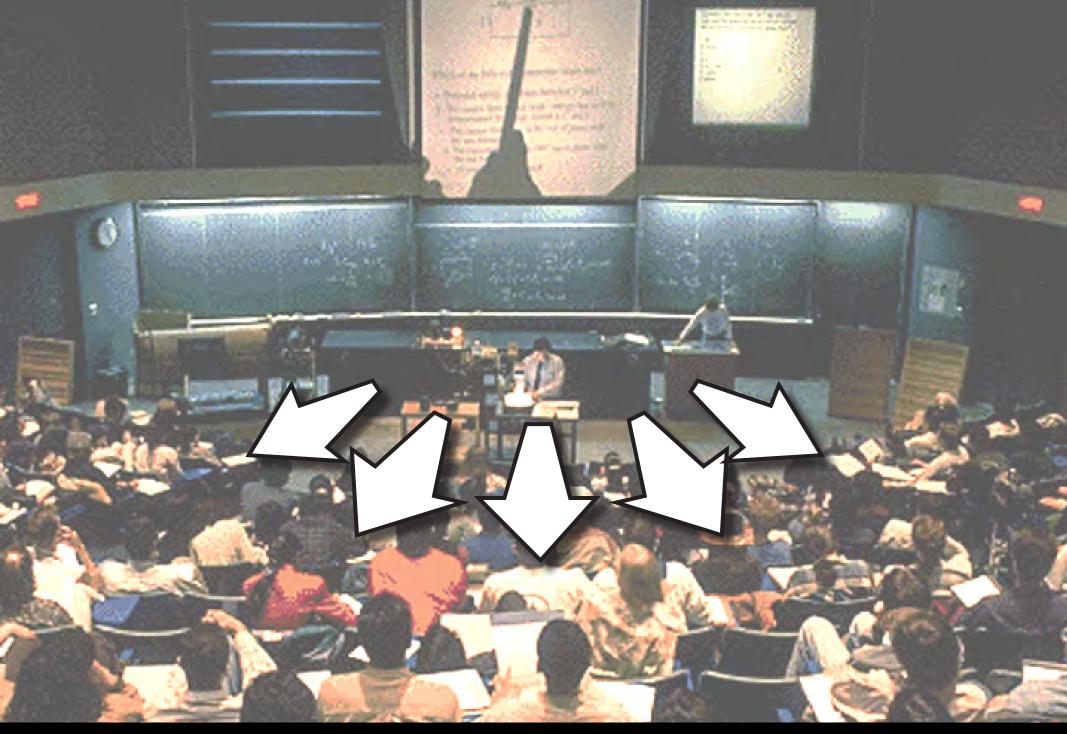
lecturers talk while other people are sleeping

(Albert Camus)



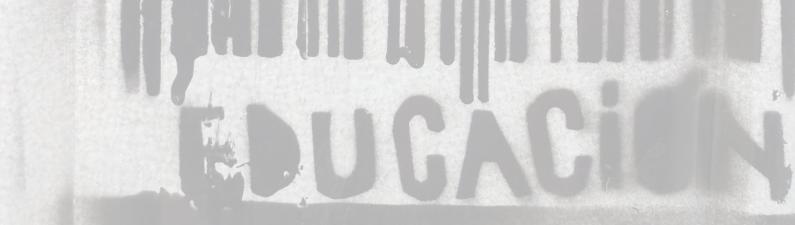








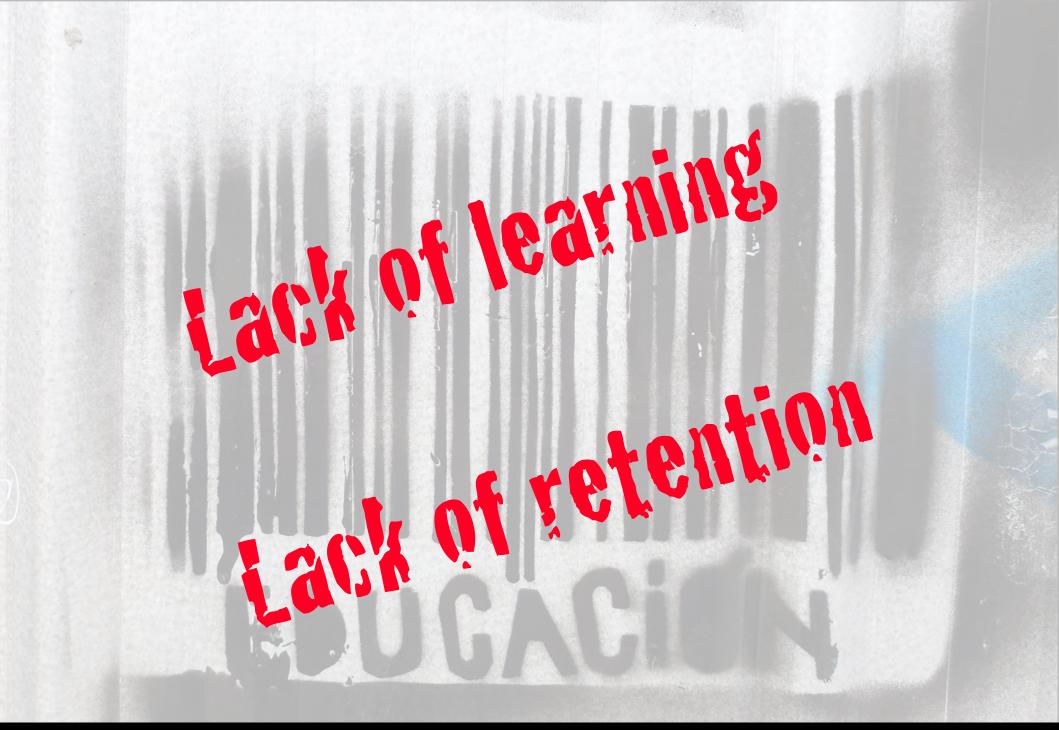














not transfer but assimilation of information is key





education



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 (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)



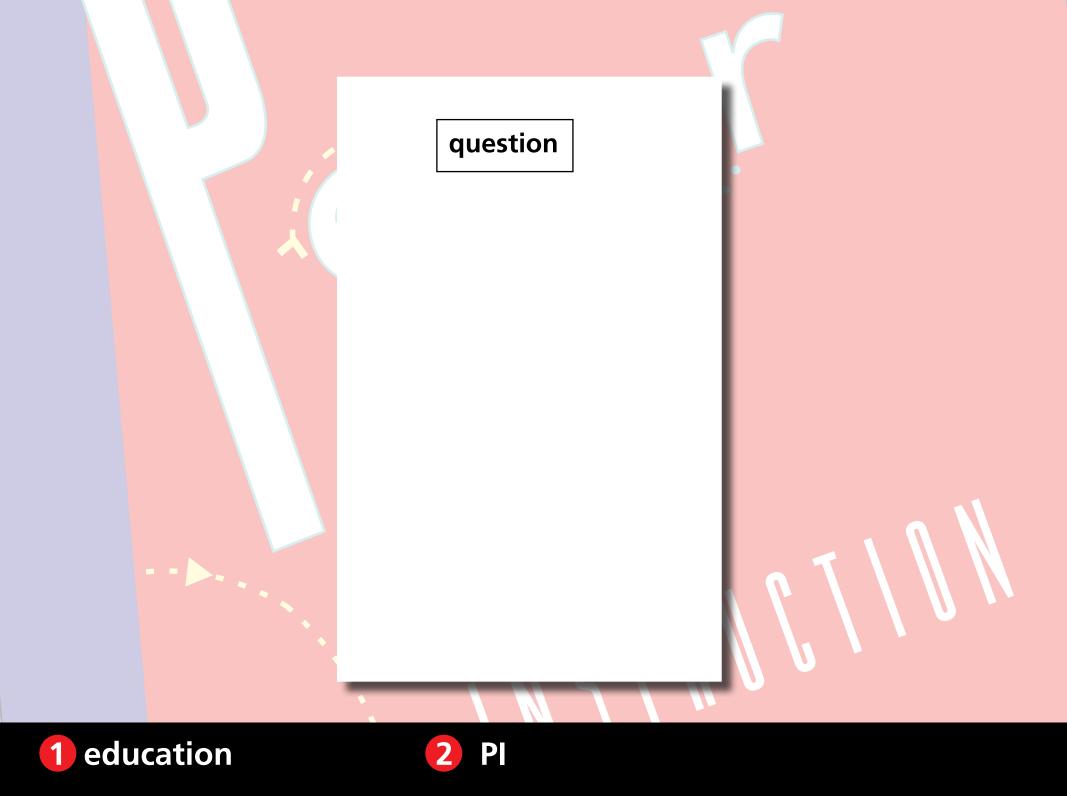


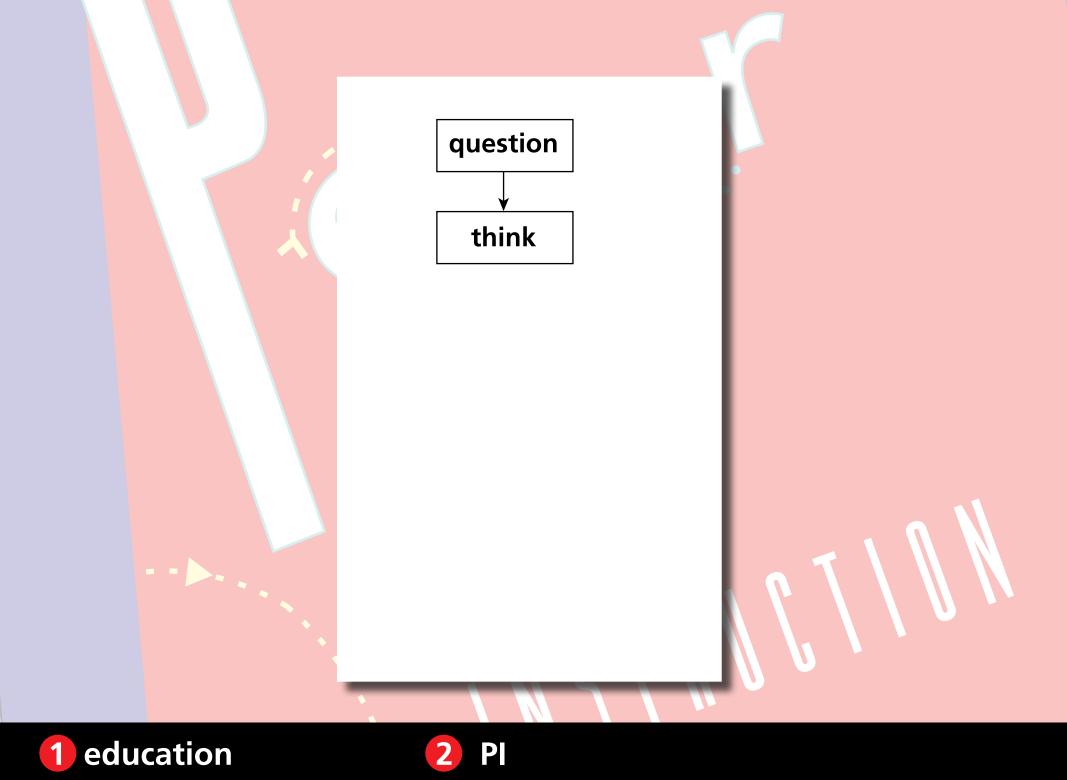
1. transfer of information (out of class)

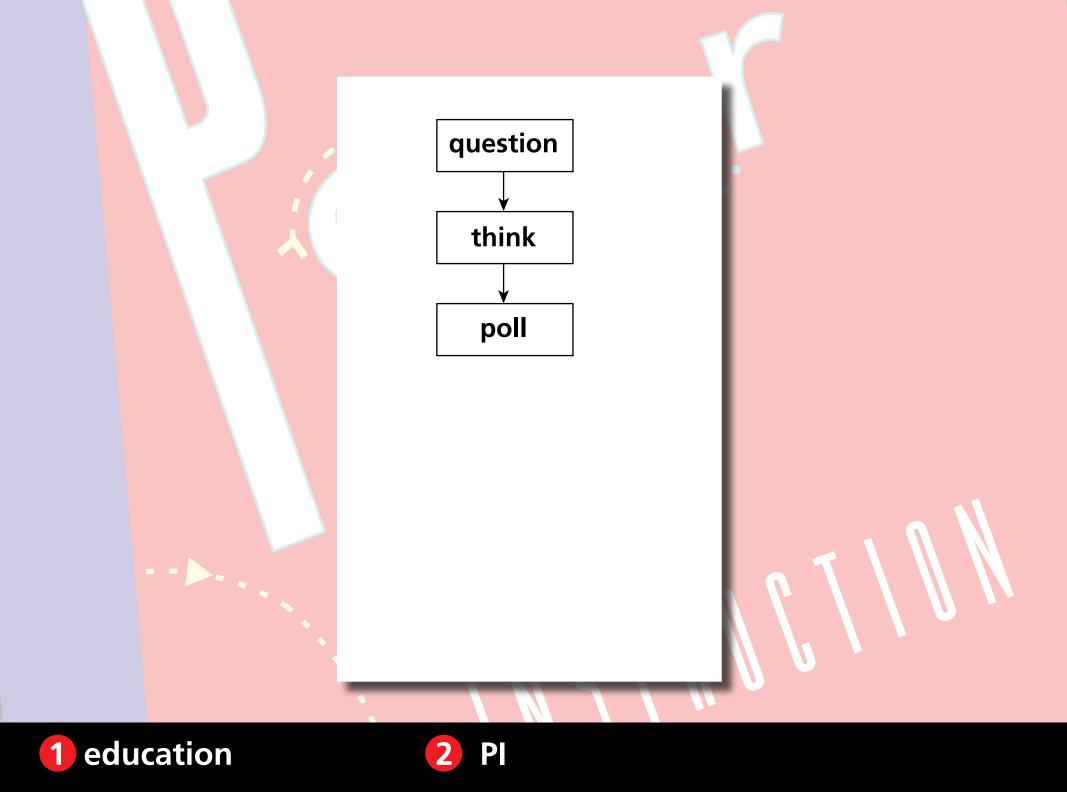
2. assimilation of that information (in class)

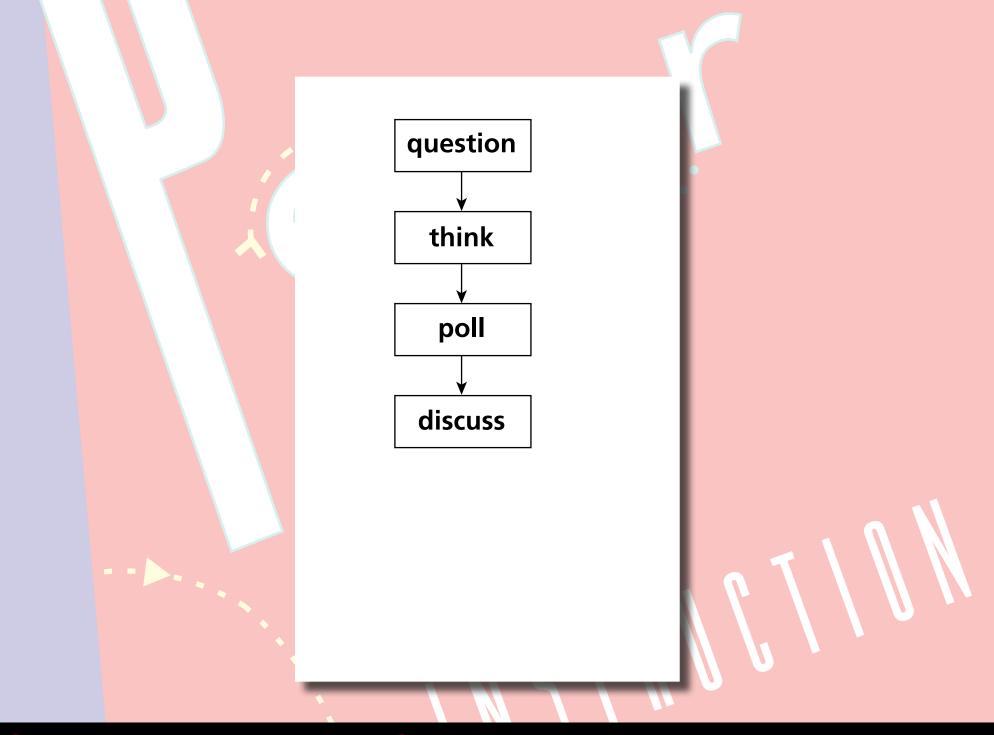






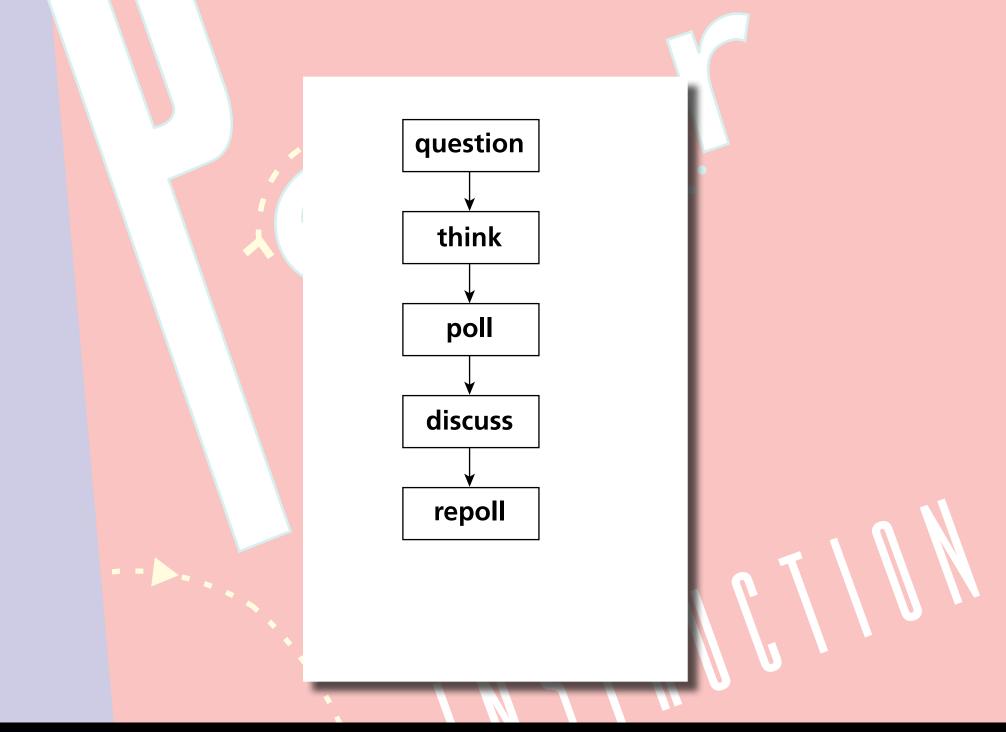






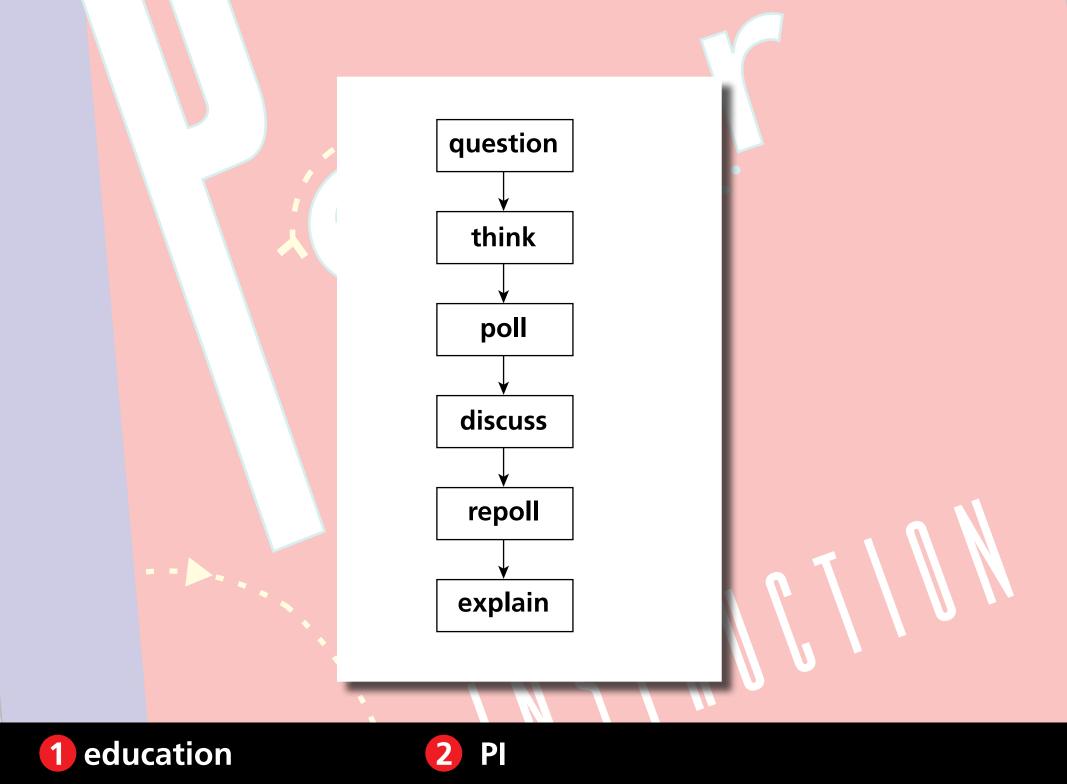


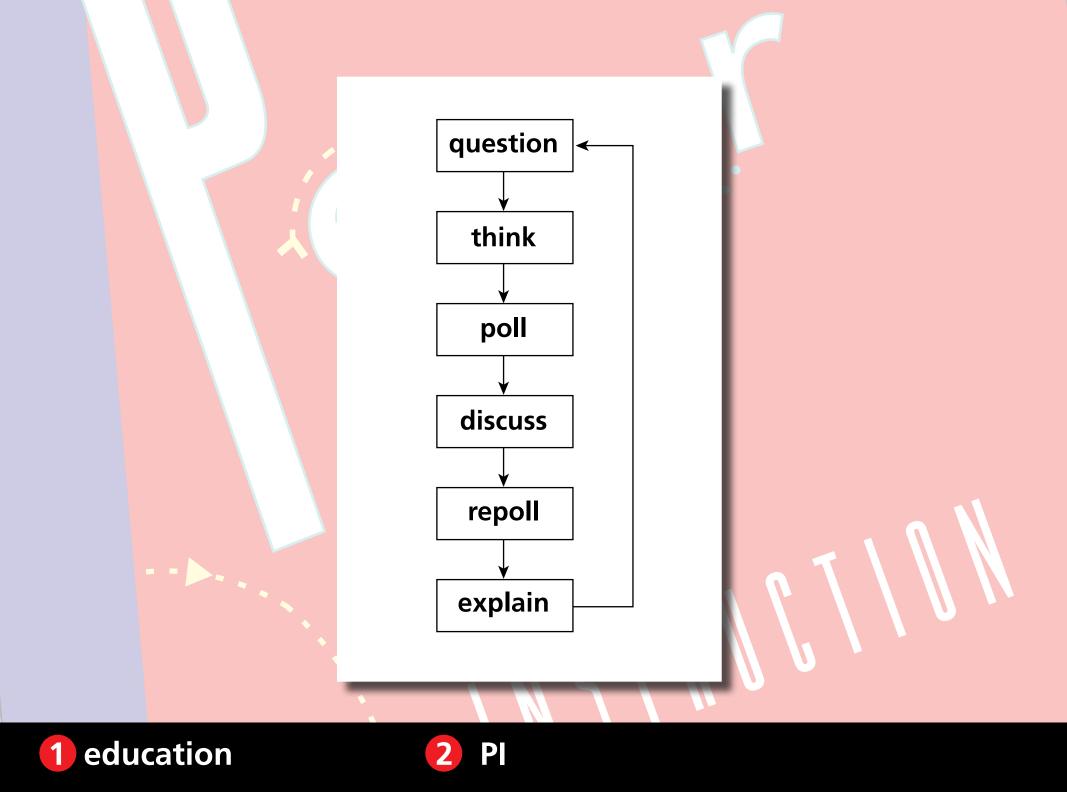


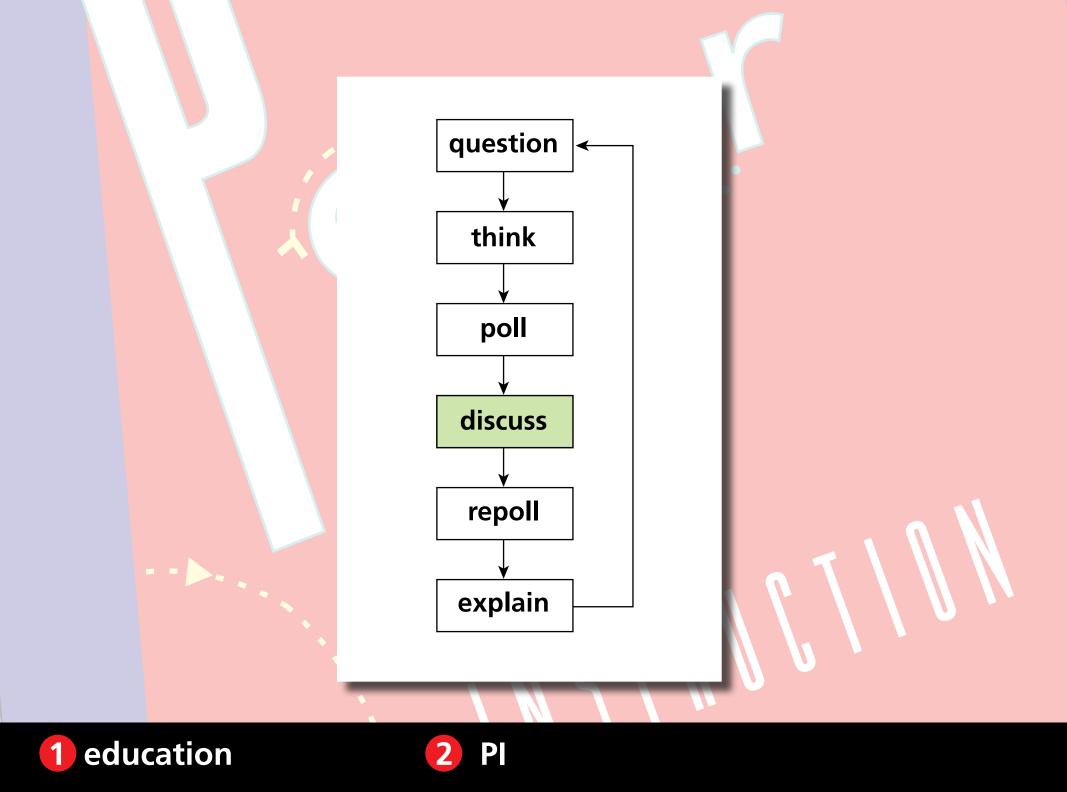






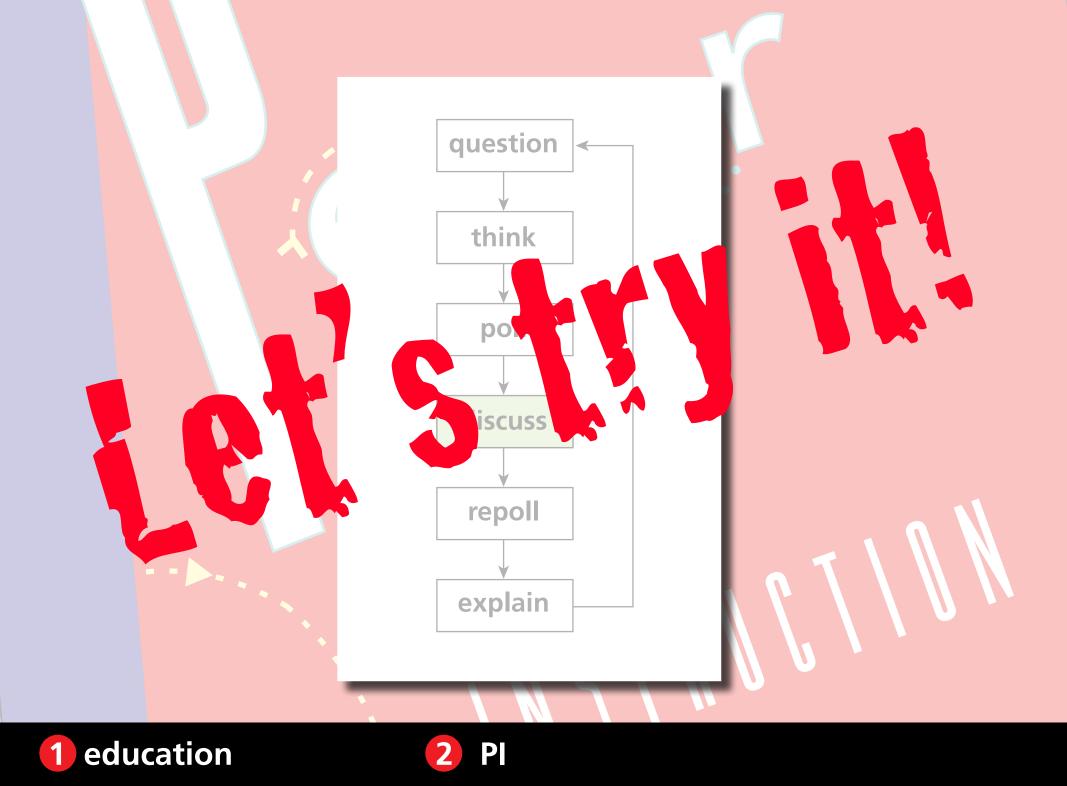








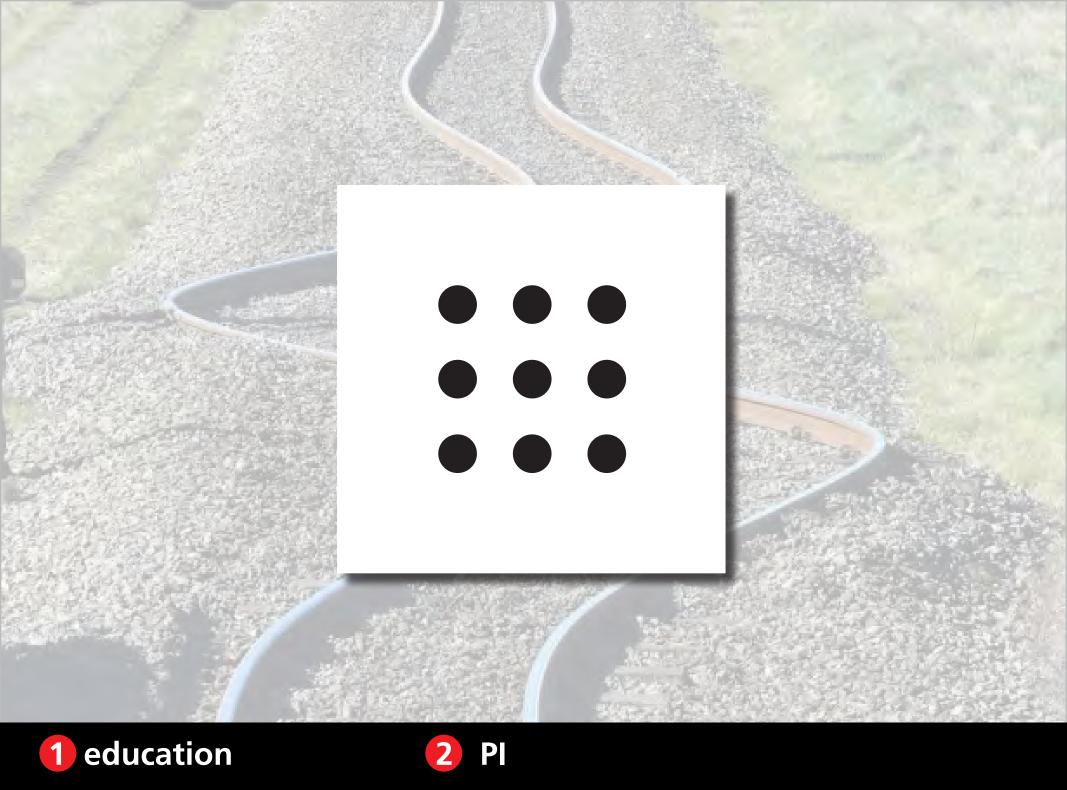


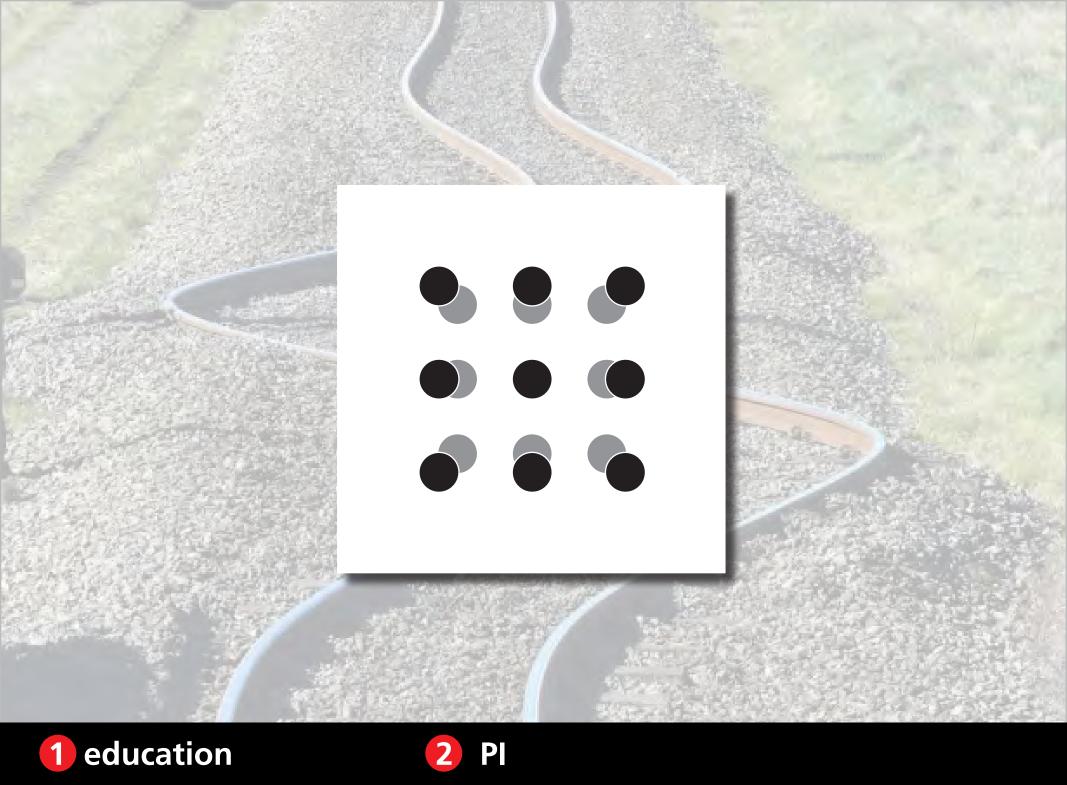


thermal expansion





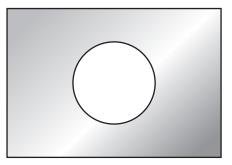












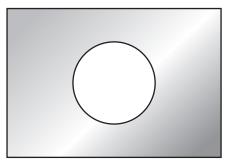






When the plate is uniformly heated, the diameter of the hole

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









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

1. increases 2. ctavithesam. 3. nacesses

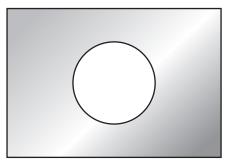






When the plate is uniformly heated, the diameter of the hole

- 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

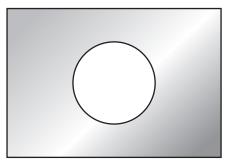






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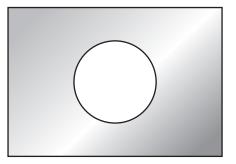






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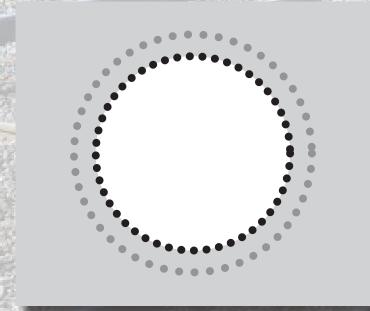
















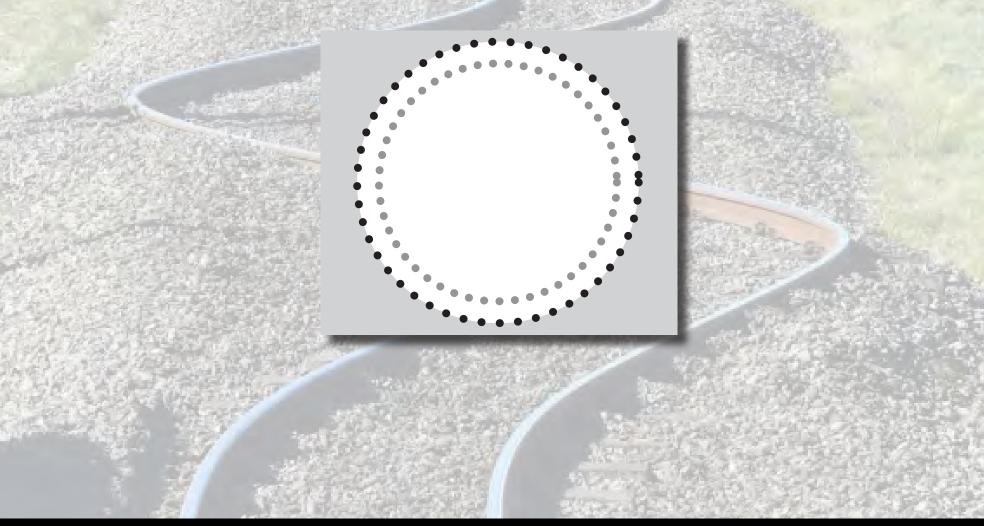
































































1. don't pay utmost attention







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







SCOL 1. don't pay utmost attention

2. think they know

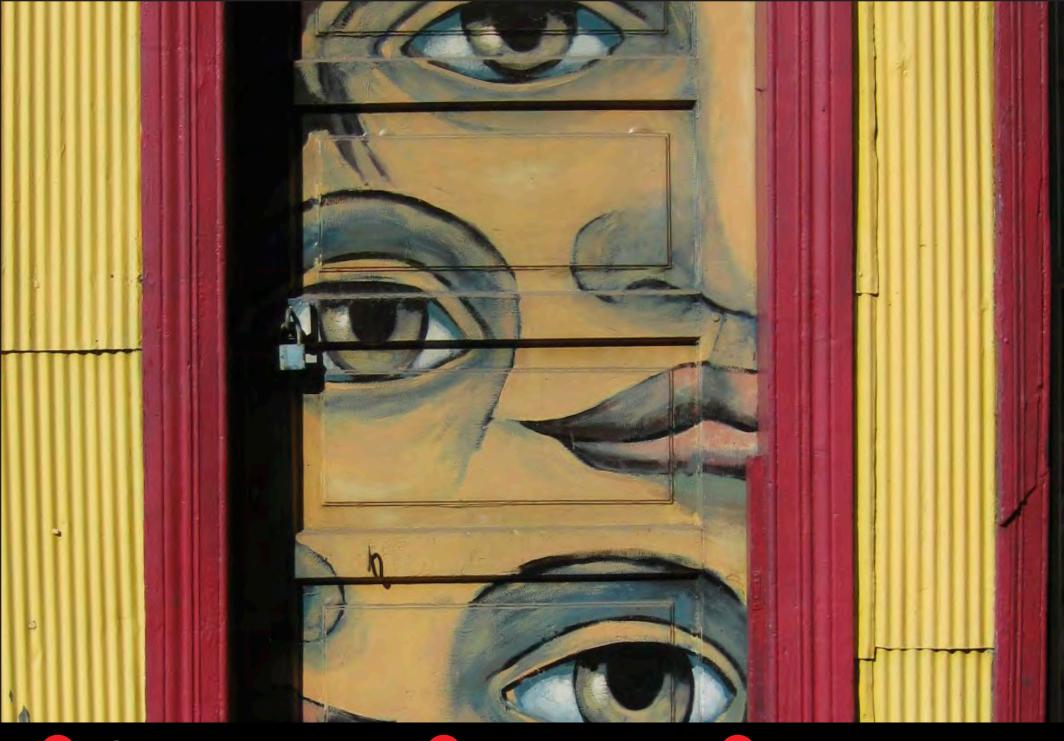
o. Fonted with misconceptions

in a lecture, students...









education





an illusion...







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!







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Funding:

National Science Foundation

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