Turning a large lecture into a seminar: Using Peer Instruction to Promote Deep Understanding



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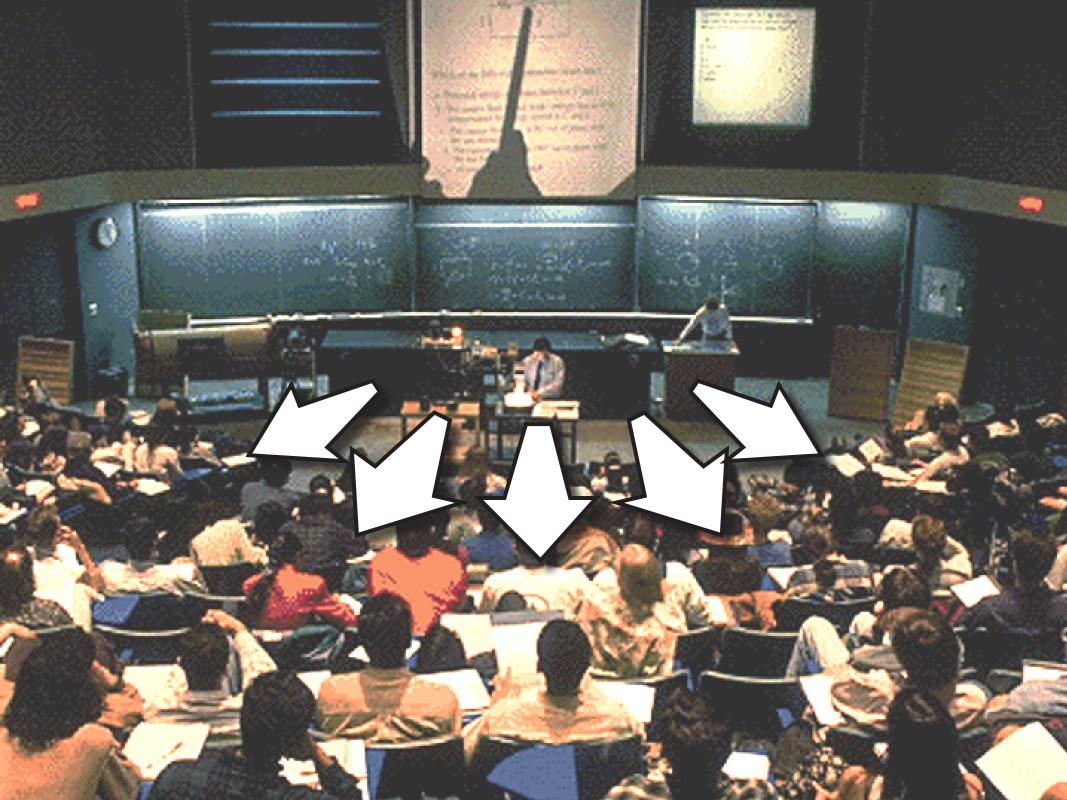


















1. transfer of information

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)

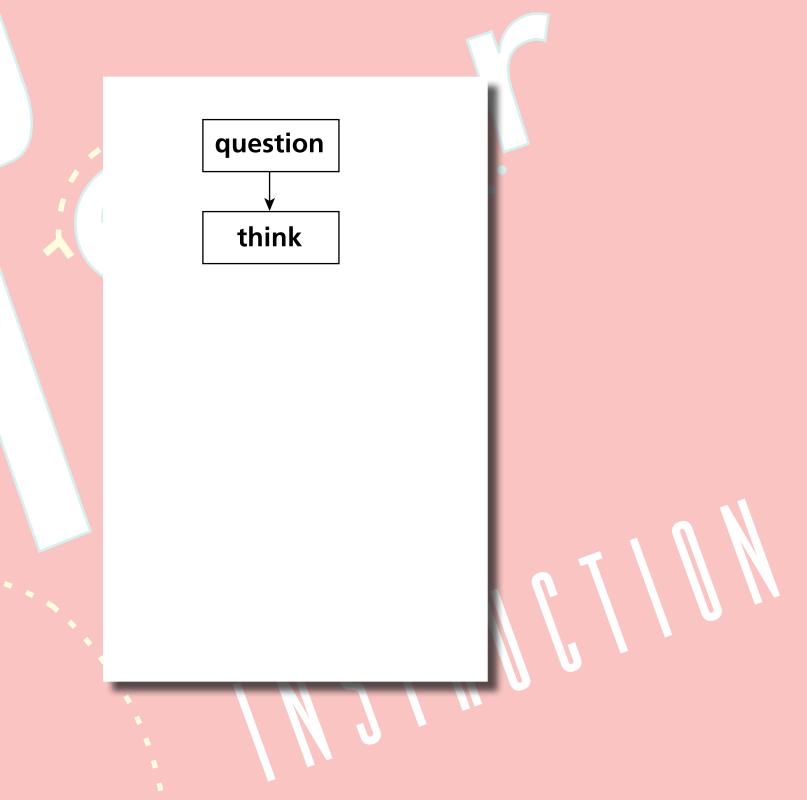
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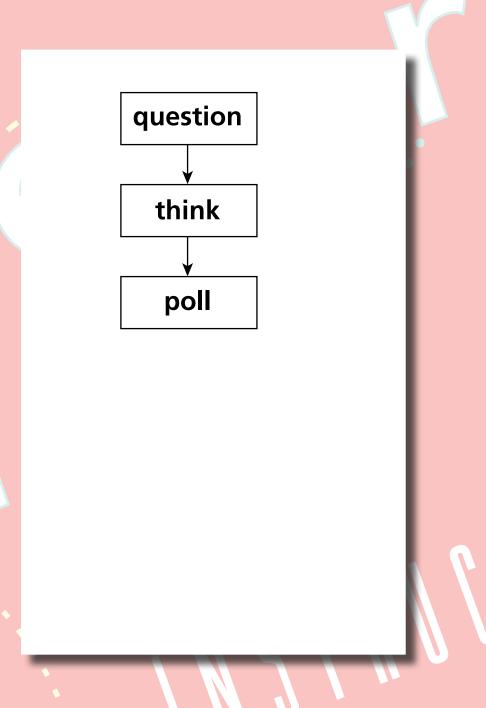
2. assimilation of that information (out of class)

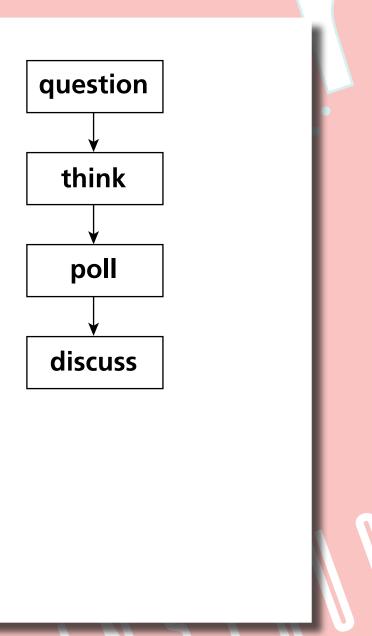
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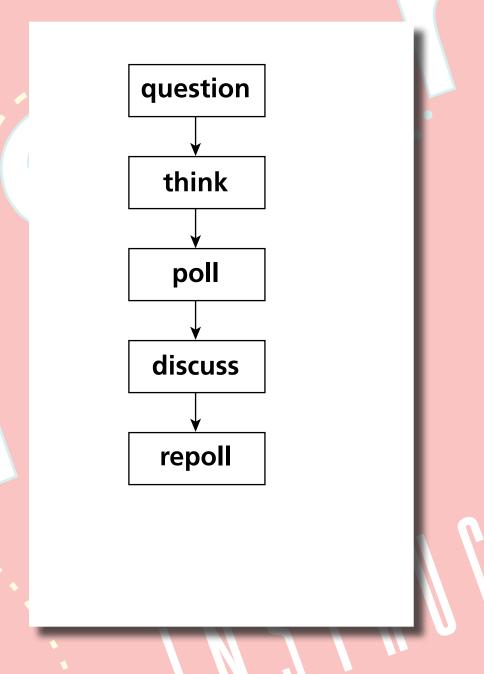
2. assimilation of that information (in class)

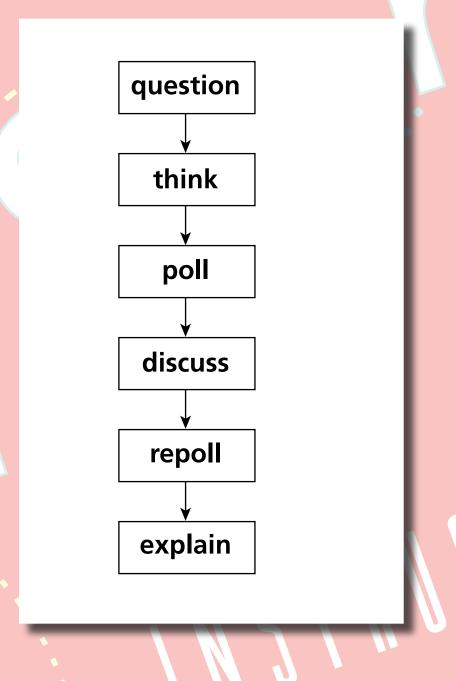
1. transfer of information (out of class) 2. assimilation of that information (in class) question

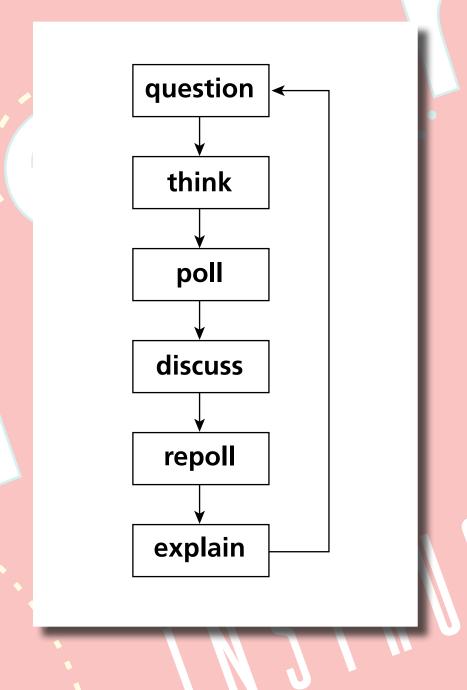


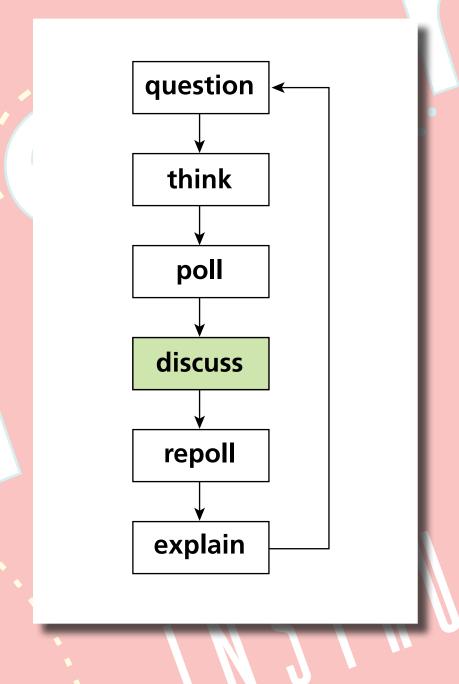


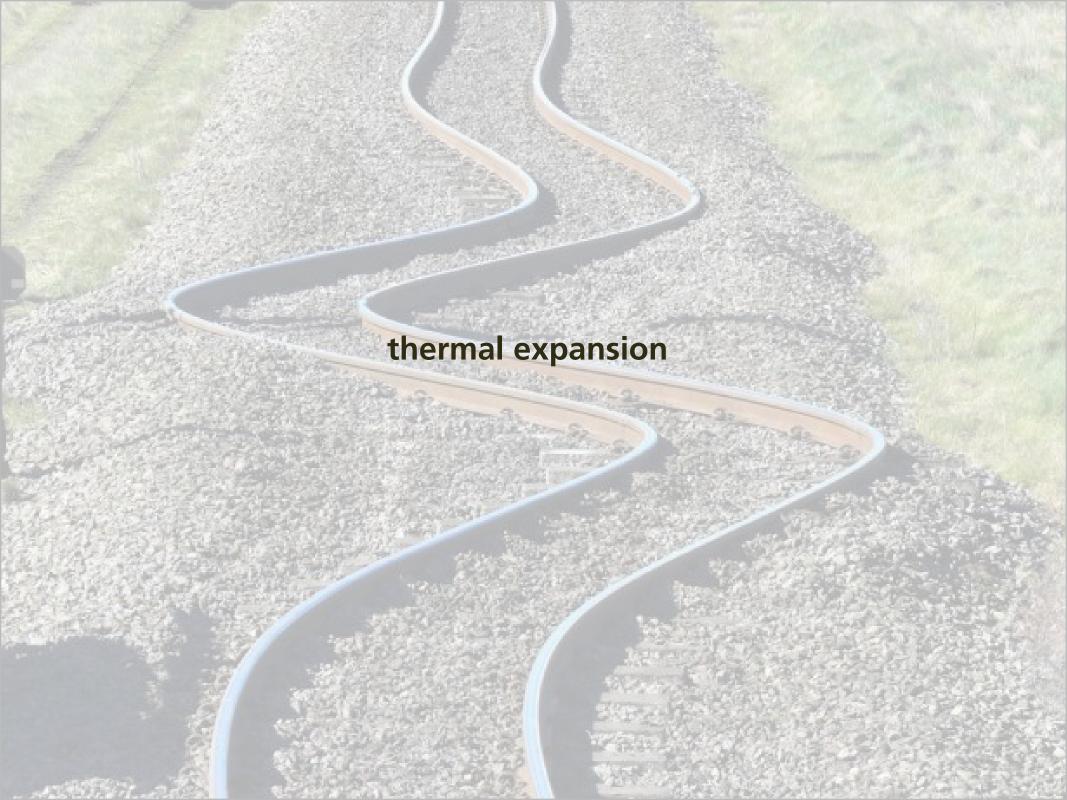


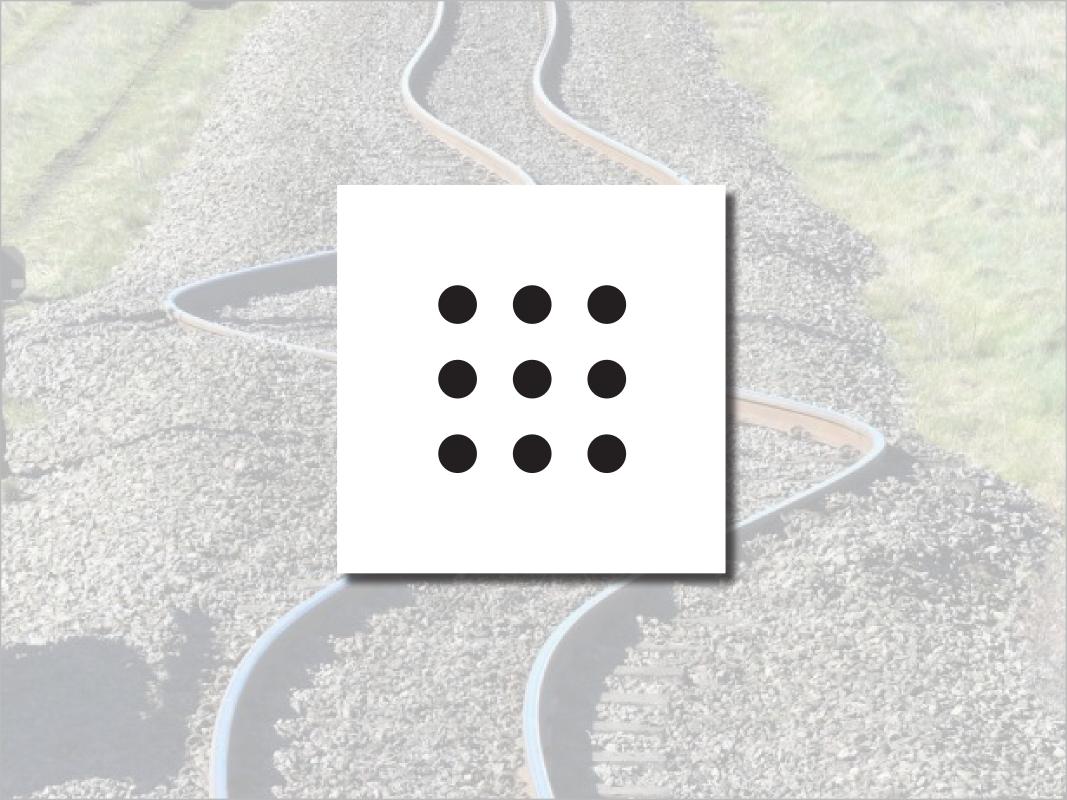


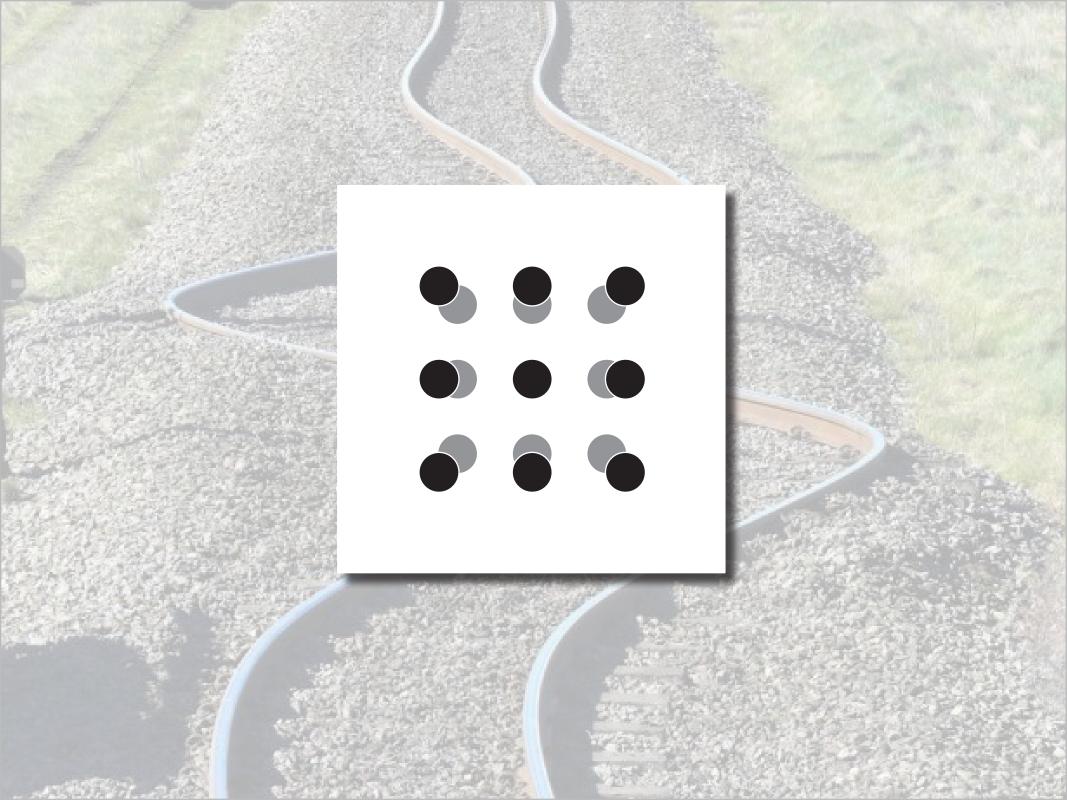




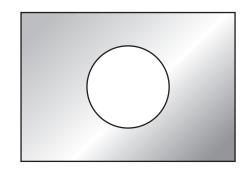






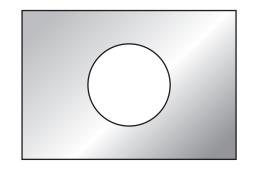




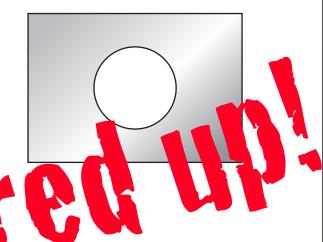


When the plate is uniformly heated, the diameter of the hole

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



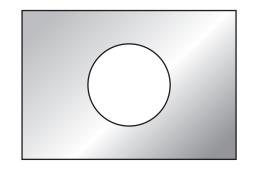
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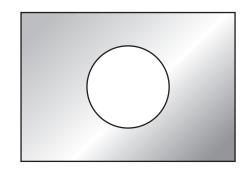
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www.menti.com 8682 6567 Before I tell you the answer, let's analyze what happened.

You...

1. made a commitment

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

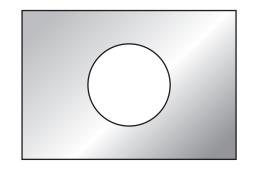
- 1. made a commitment
- 2. externalized your answer
- 3. moved from the answer/fact to reasoning

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

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

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

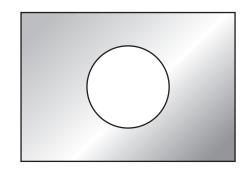
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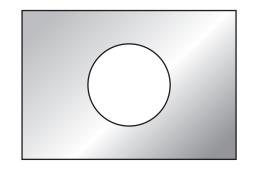


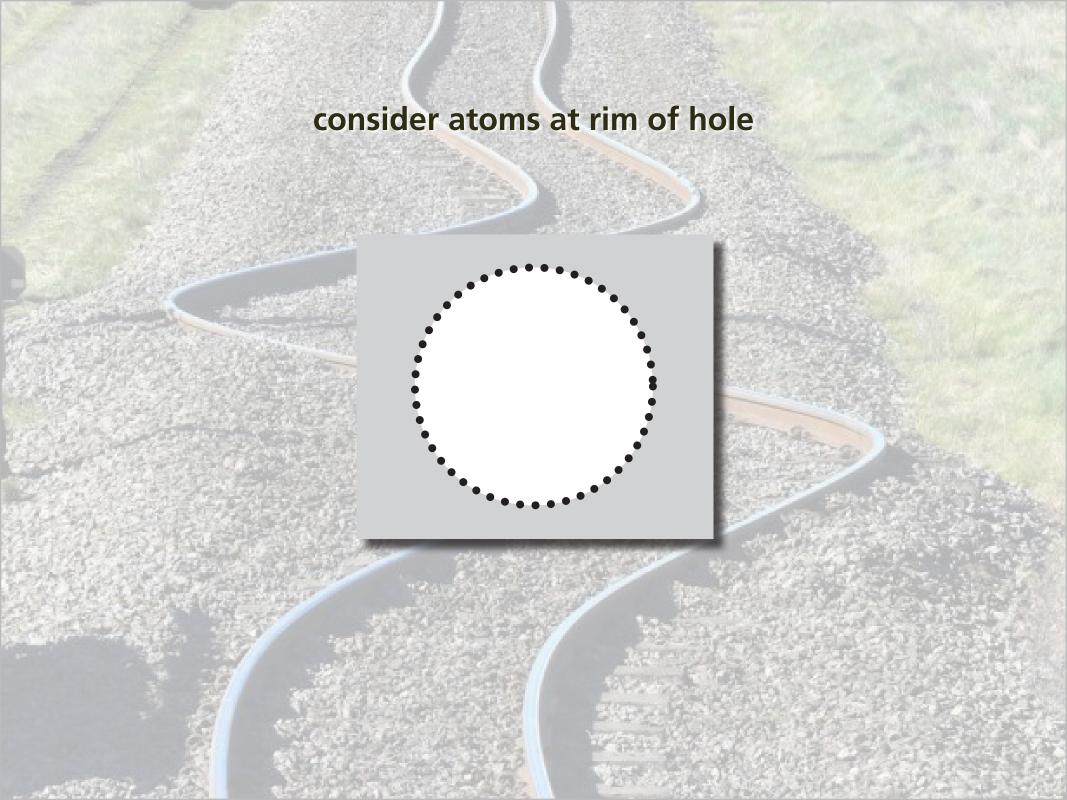


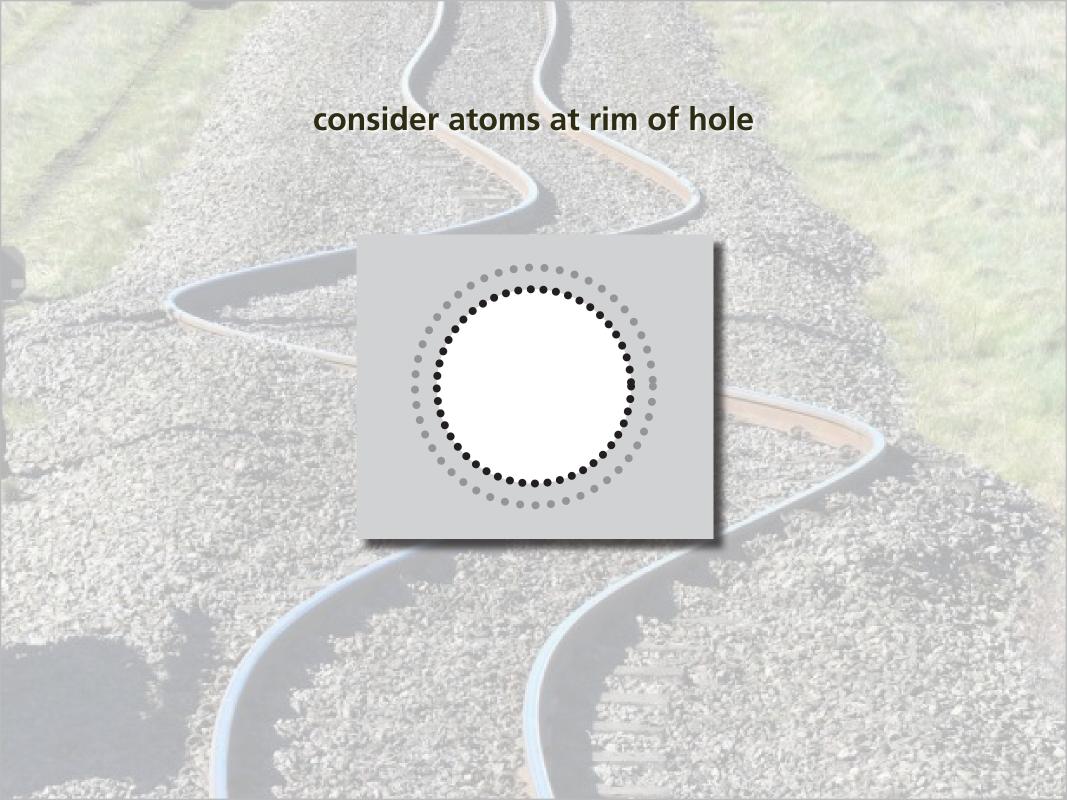
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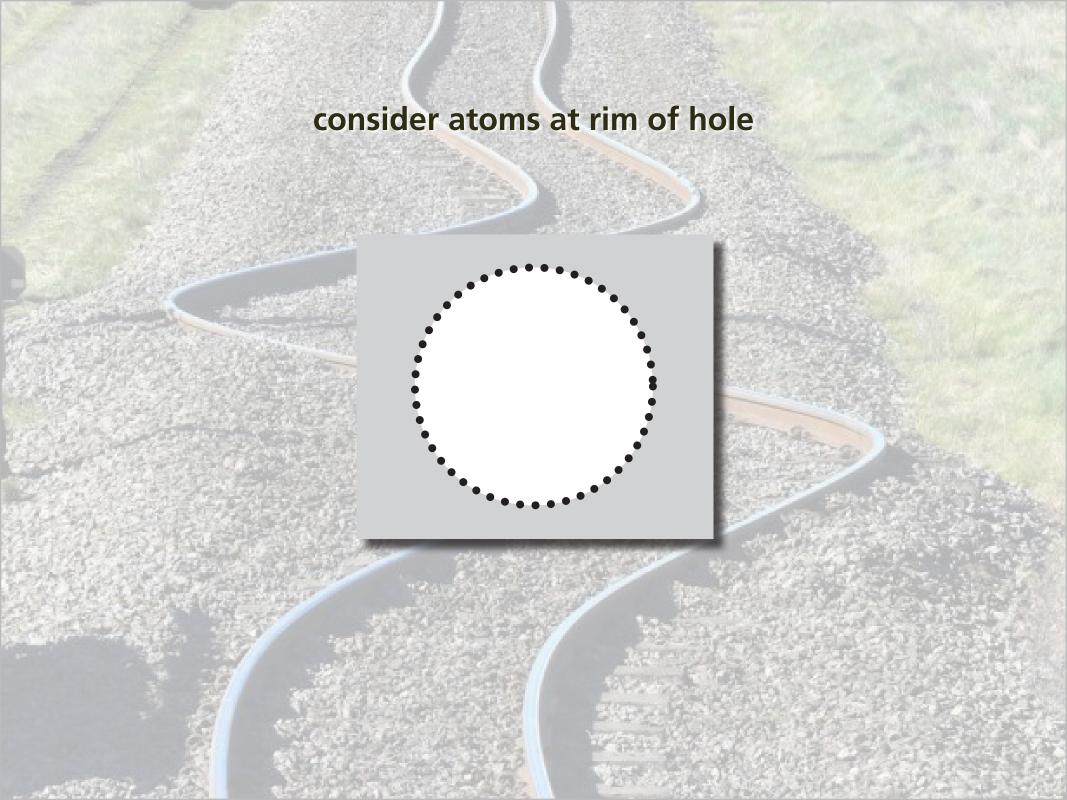
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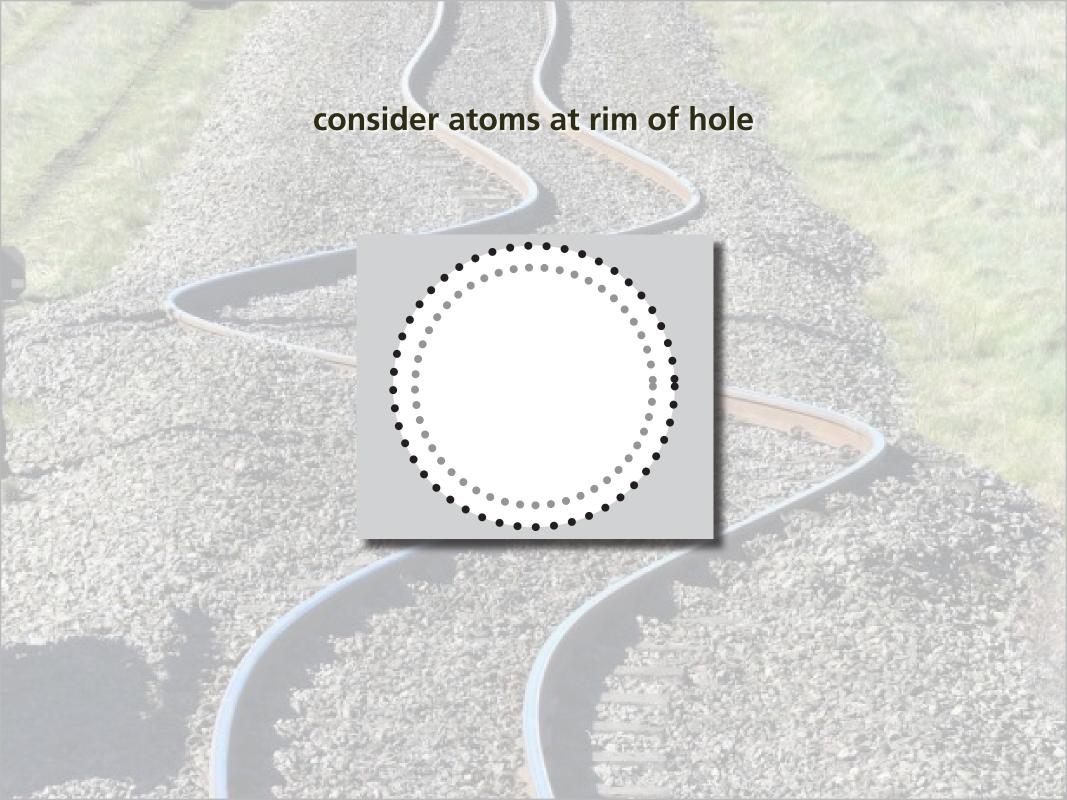
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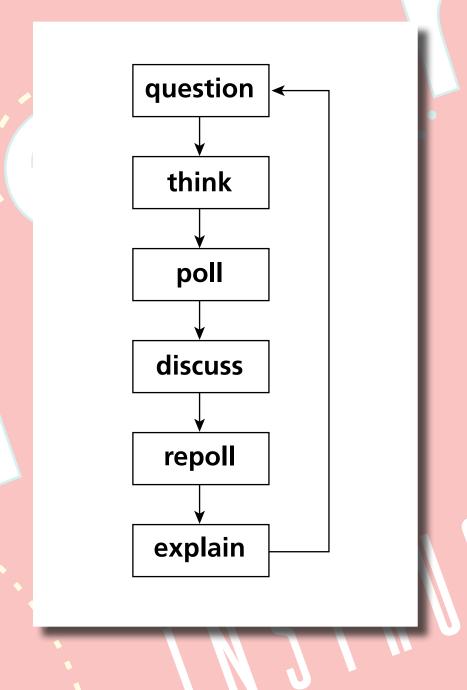


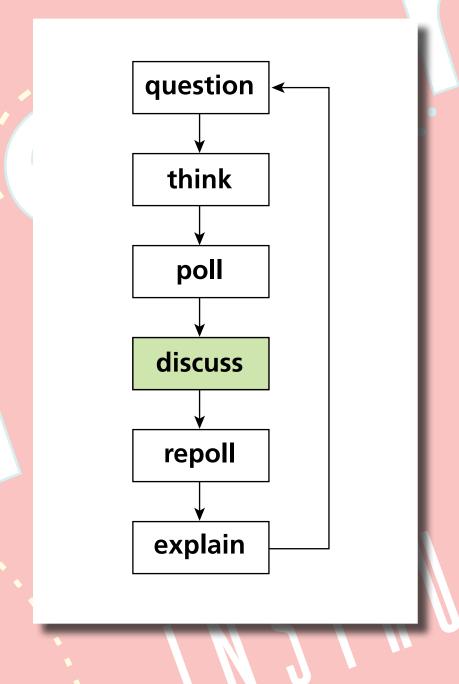




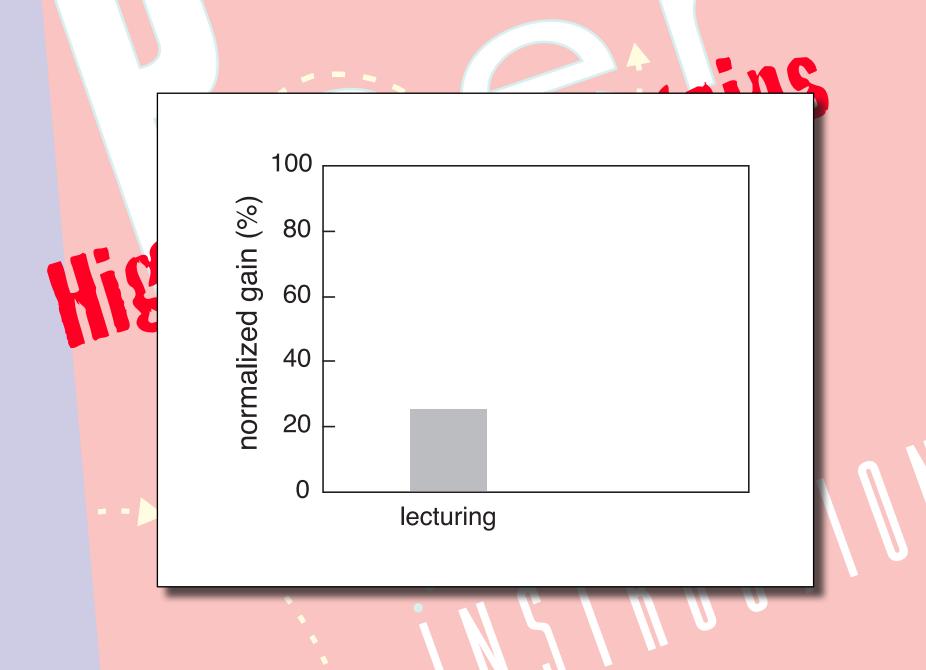


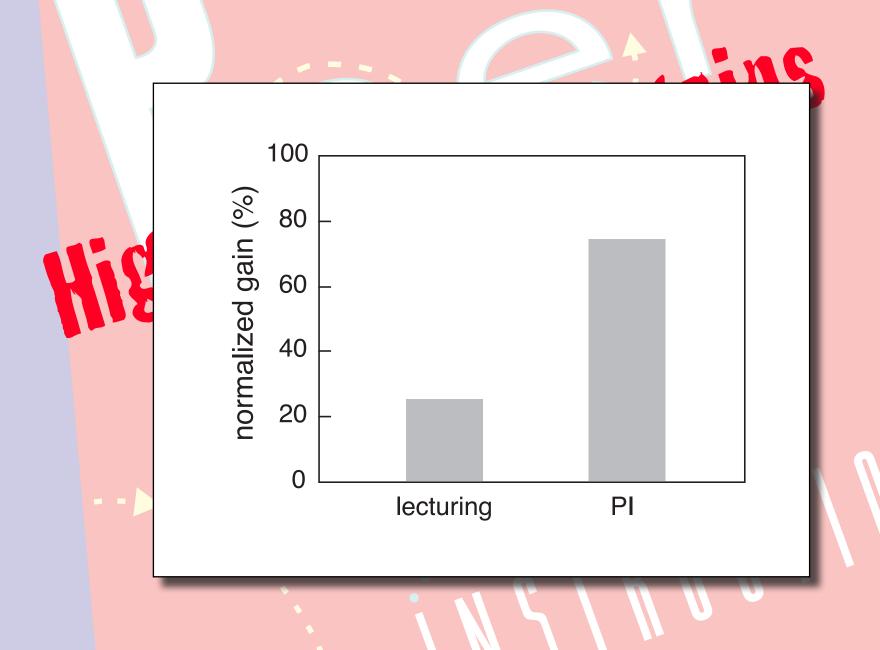






Higher learning gains





Higher learning gains Better retention







how did you become good at that?

Education is not just about:

- transferring information
- getting students to do what we do

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- transferring information
- getting students to do what we do

active engagement/social interaction a must!

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