1. Go to http://LCatalytics.com

2a. If you have instructor account: Log in, click "Student view"

2b. Otherwise: Create student account with signup code DEMO

3. Join session 1234567

## Peer Instruction: Engaging students with Learning Catalytics





## Peer Instruction: Engaging students with Learning Catalytics



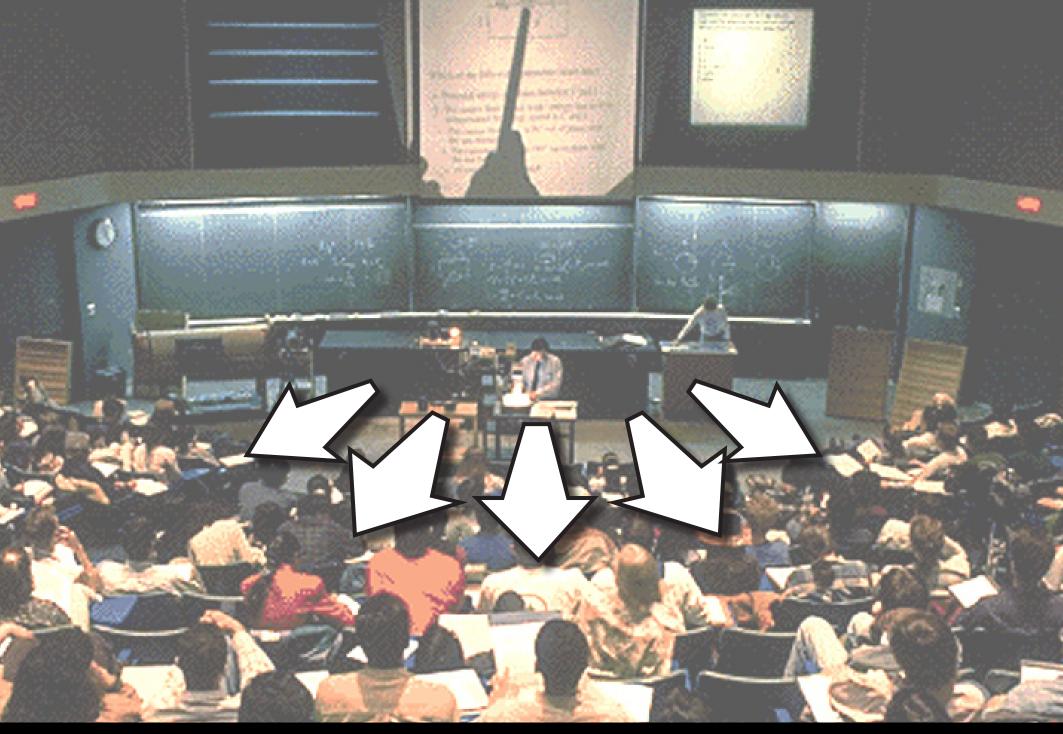




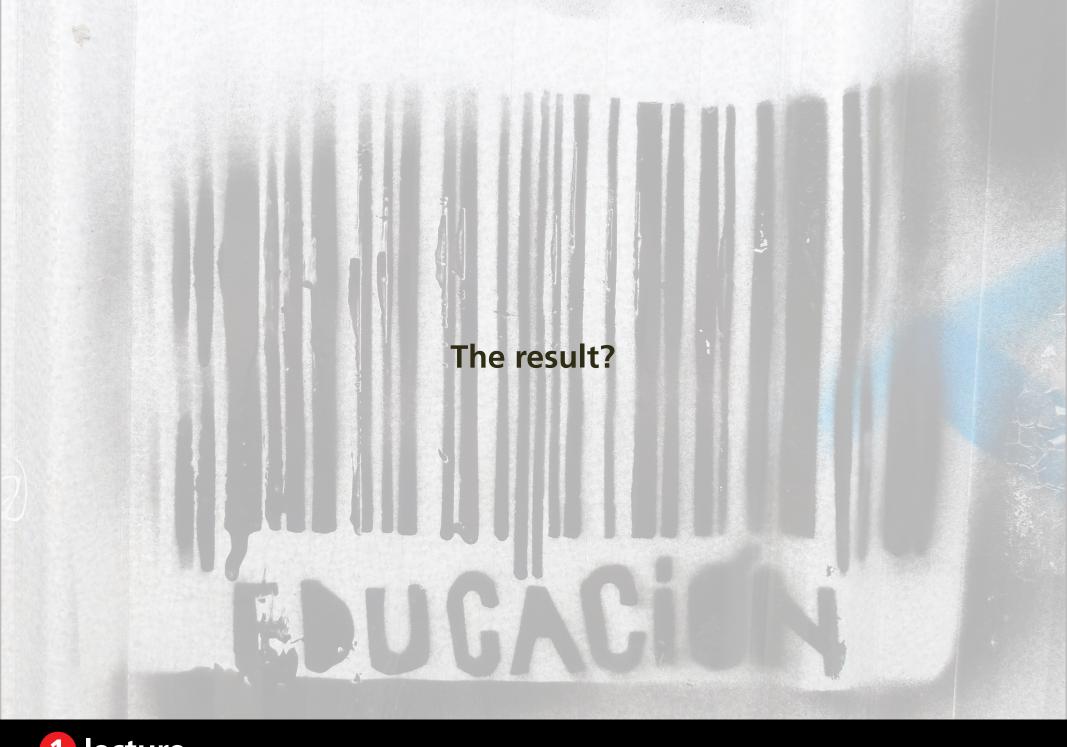


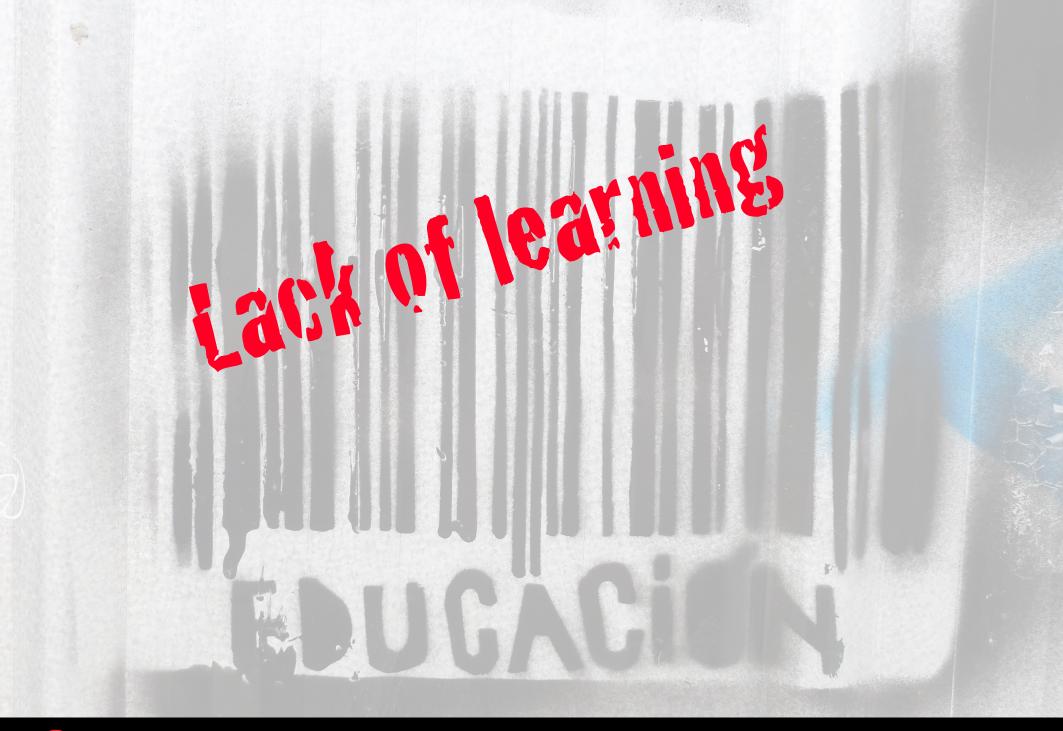


1 lecture



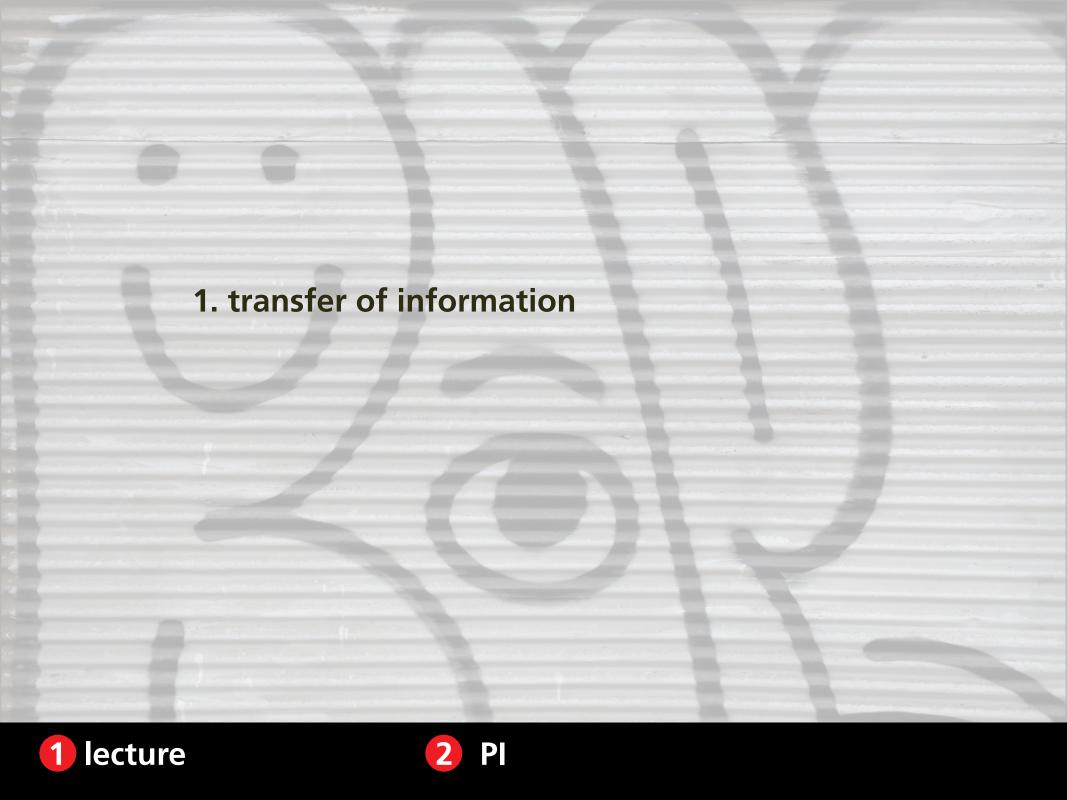
1 lecture











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)

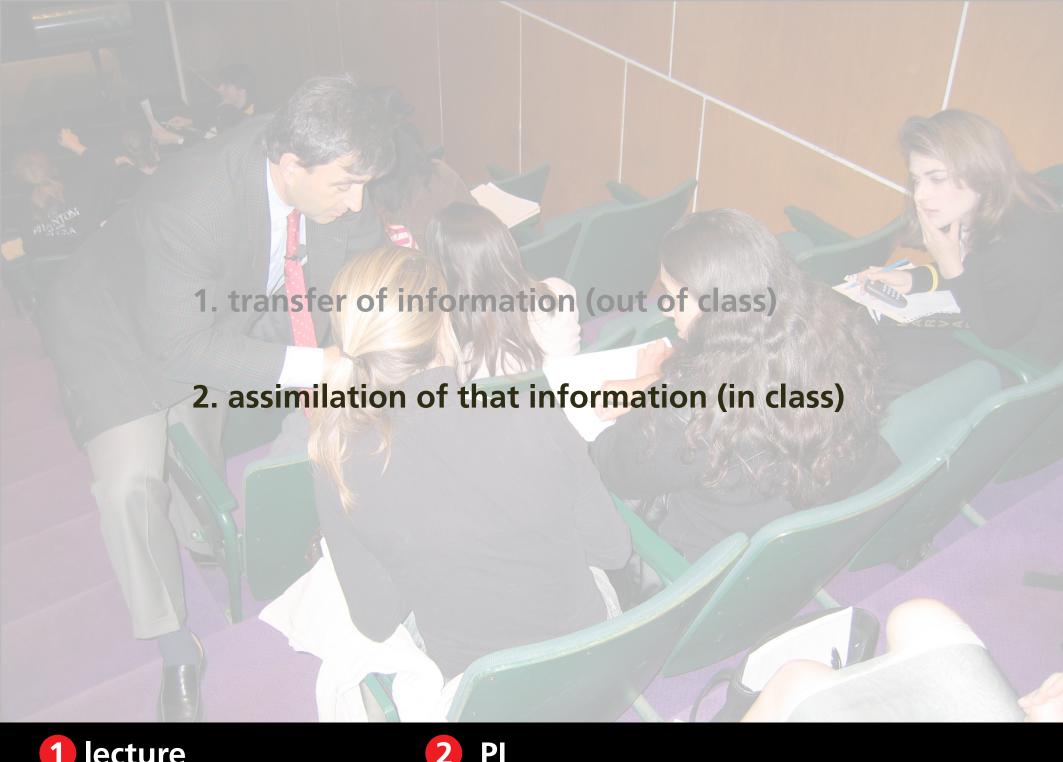
2. assimilation of that information (out of class)

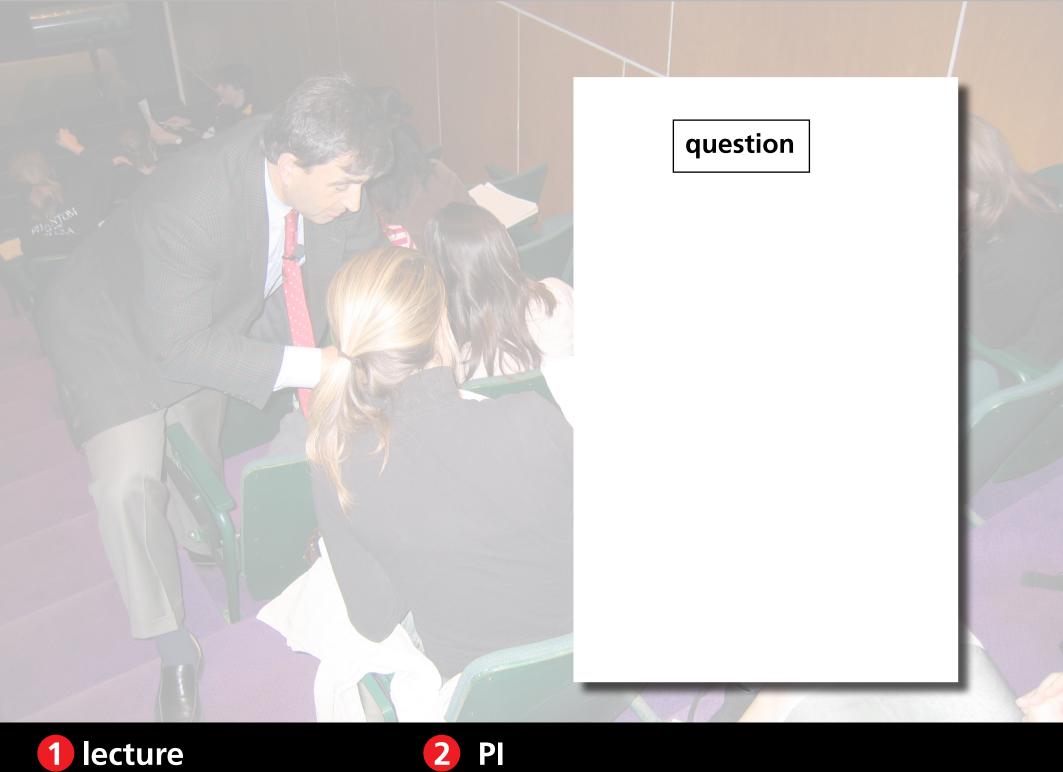
1. transfer of information (in class)

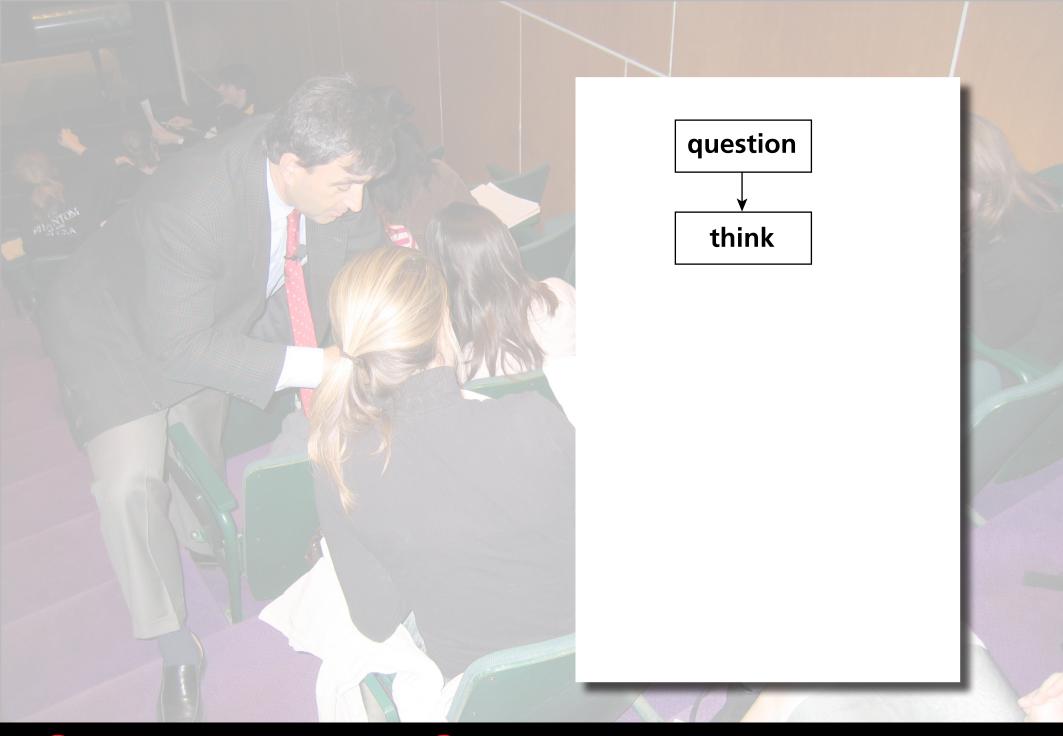
2. assimilation of that information (out of class)

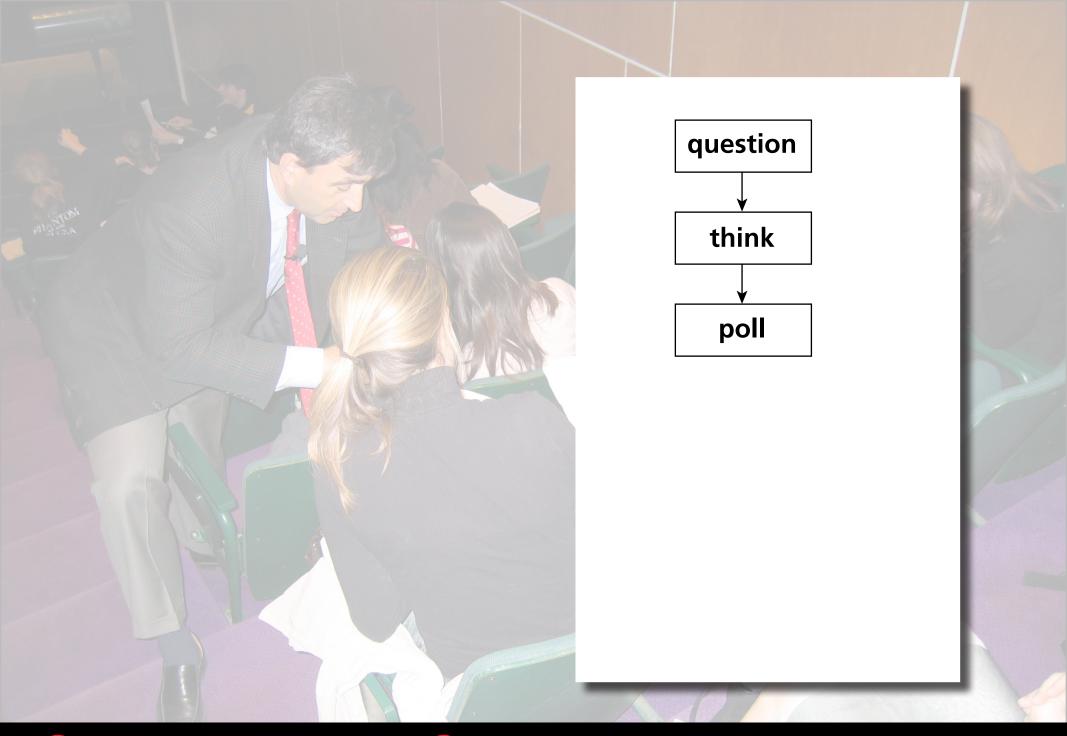
1. transfer of information (out of class)

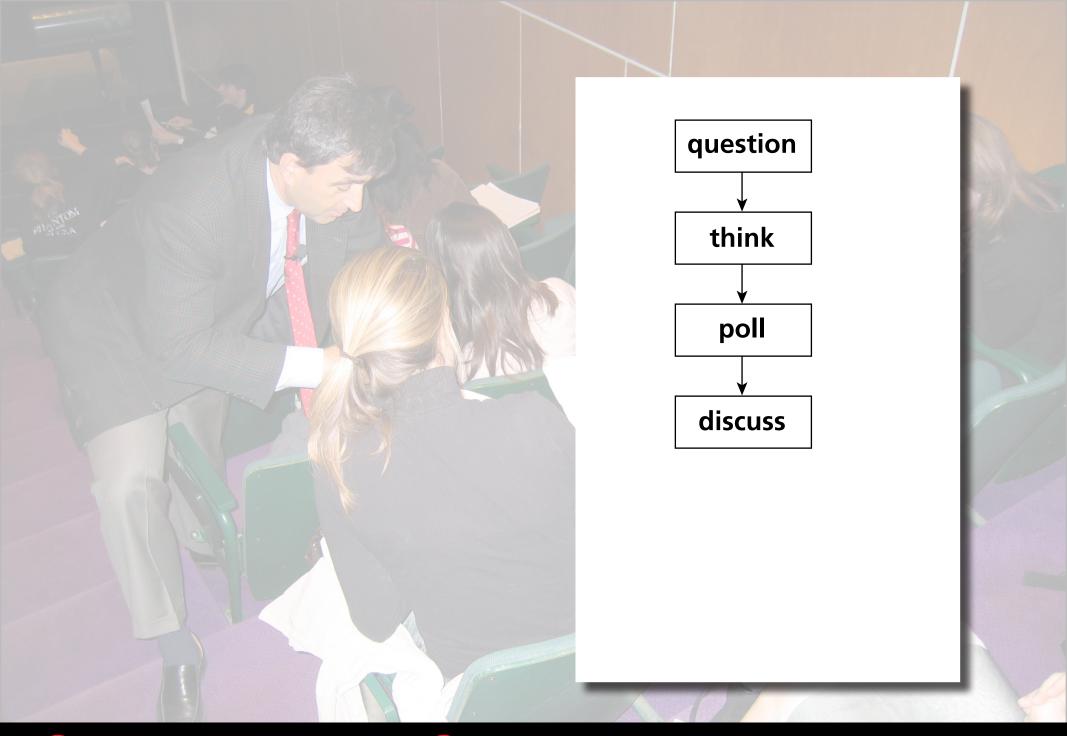
2. assimilation of that information (in class)

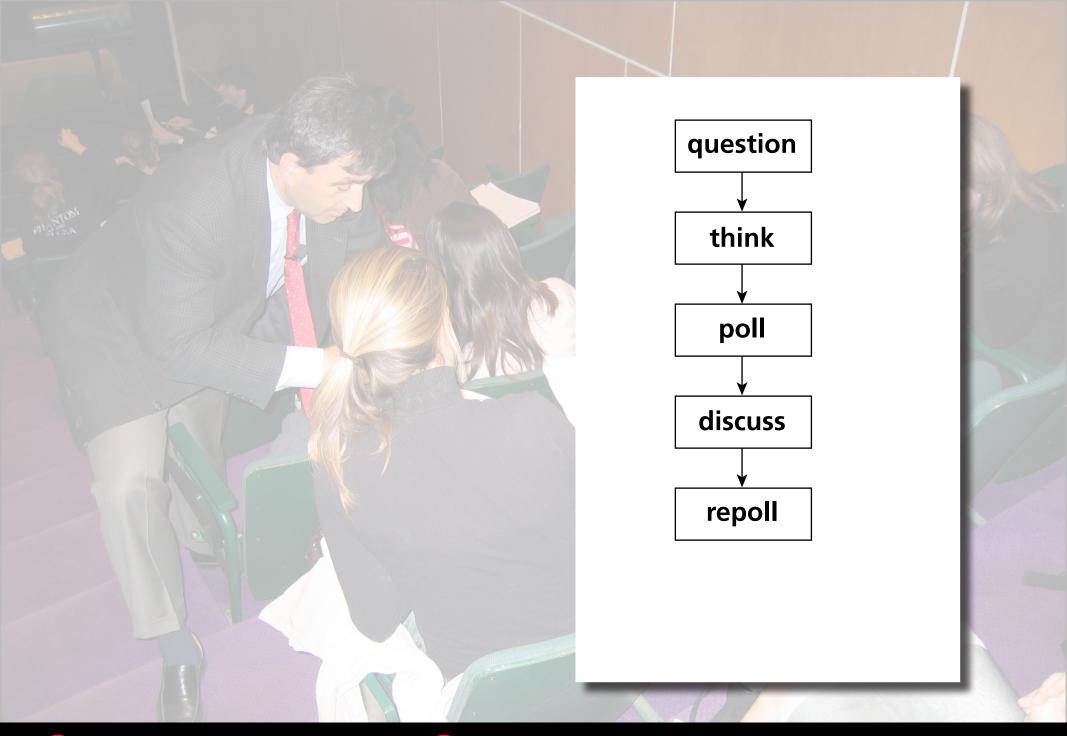


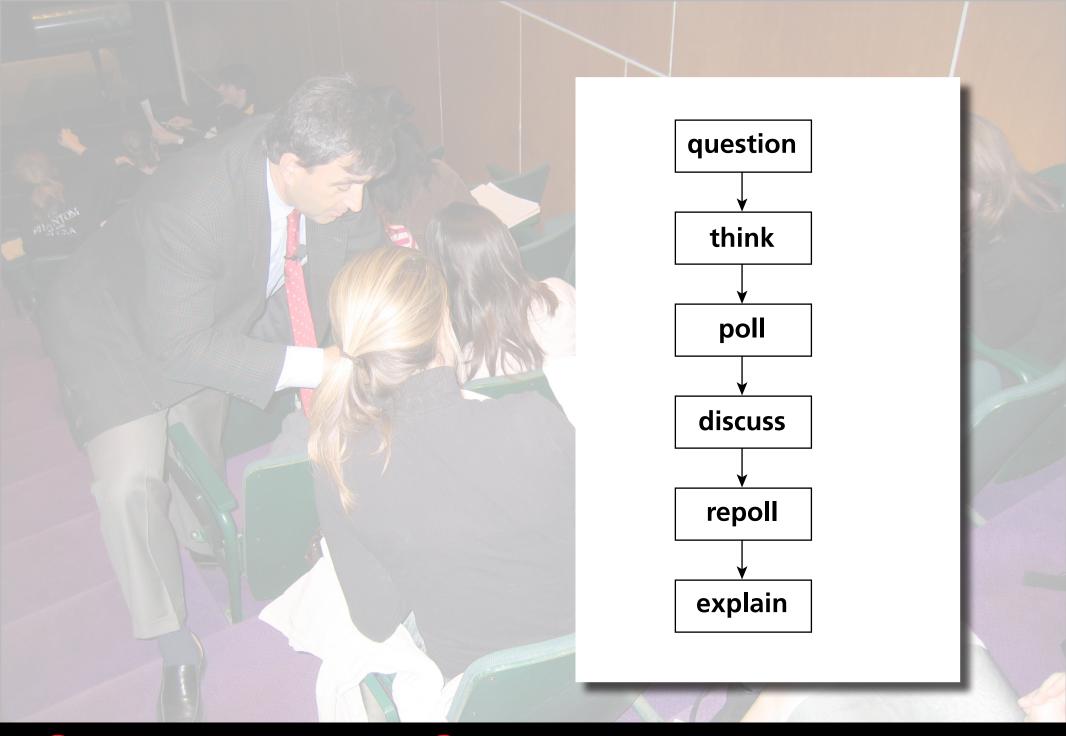


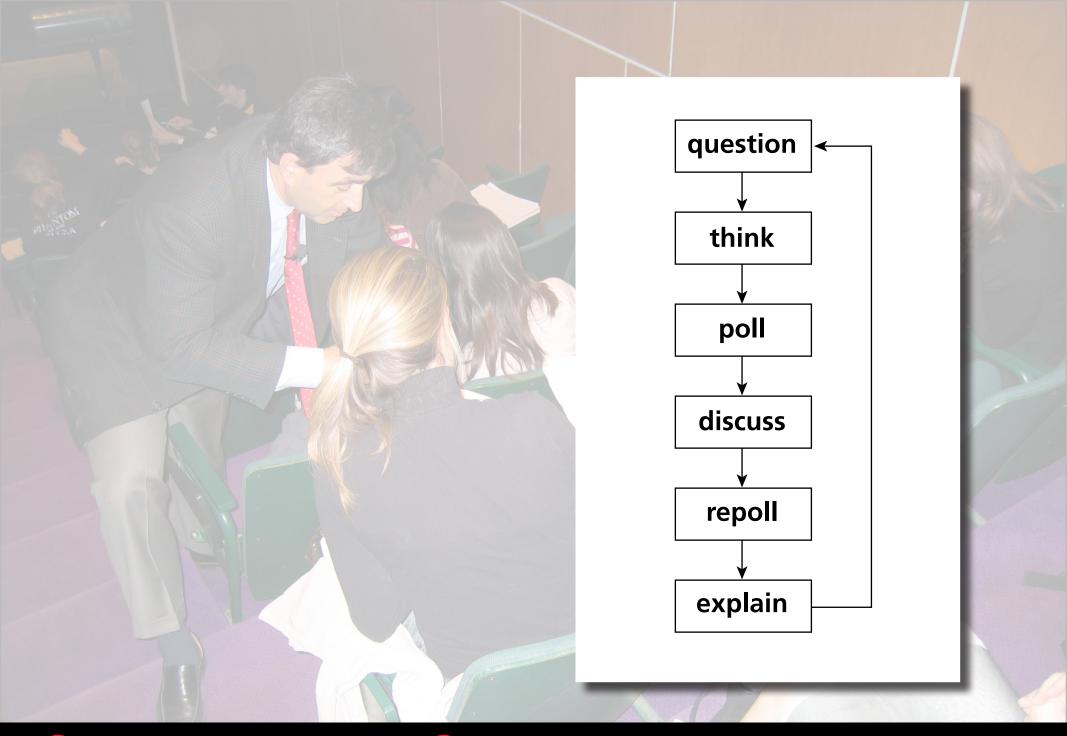


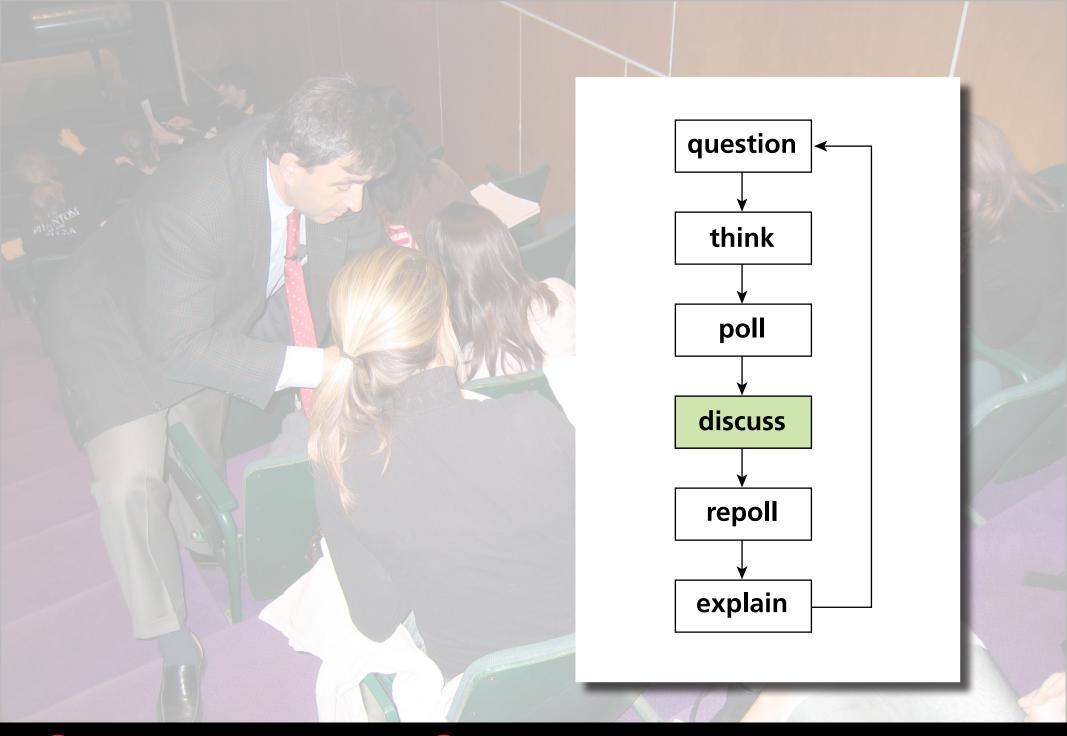




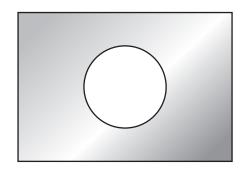






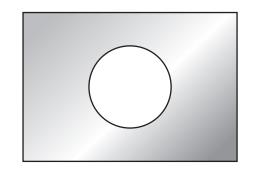






When the plate is uniformly heated, the diameter of the hole

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

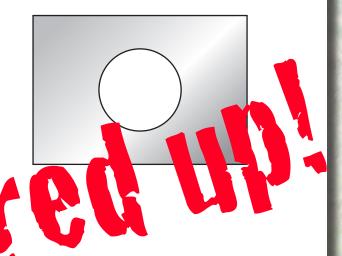


When the plate is uniformly heated, the diameter of the hold



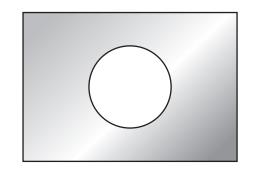
2 tay the same.

B. a. c.e. ses



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

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



You...

You...

1. made a commitment

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.

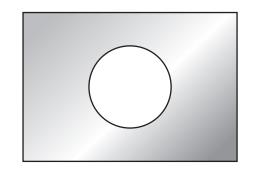
You...

- 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

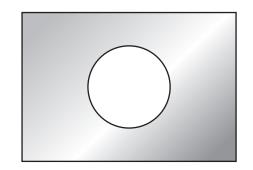
- 1. increases.
- 2. stays the same.
- 3. decreases.

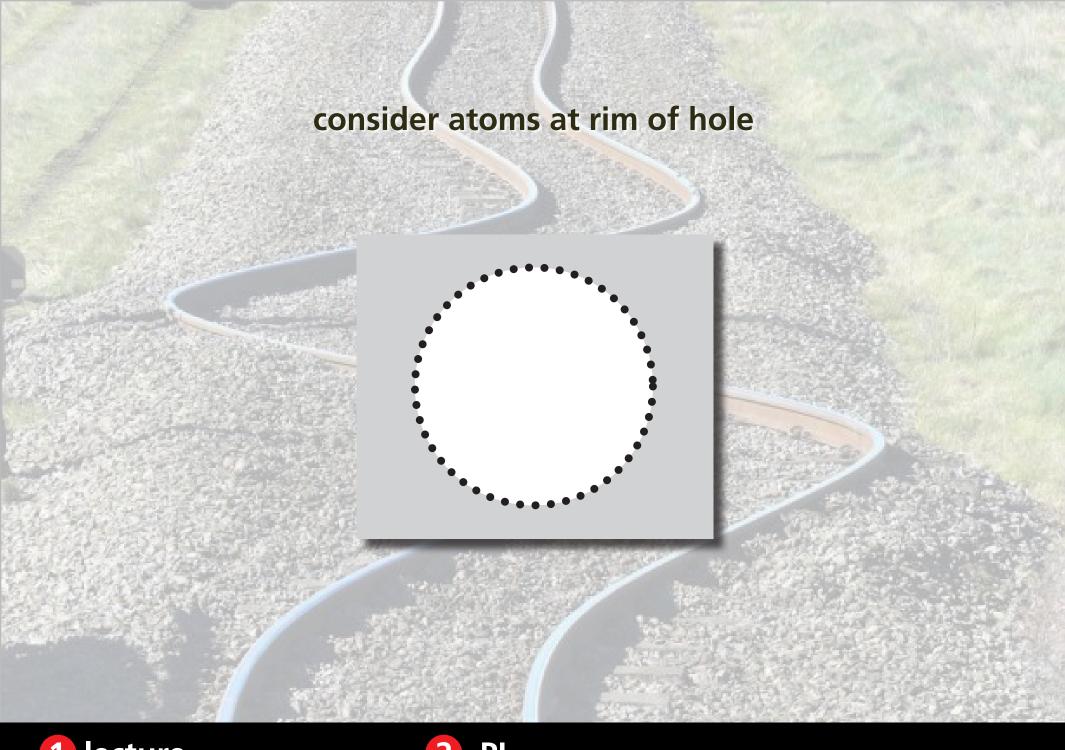


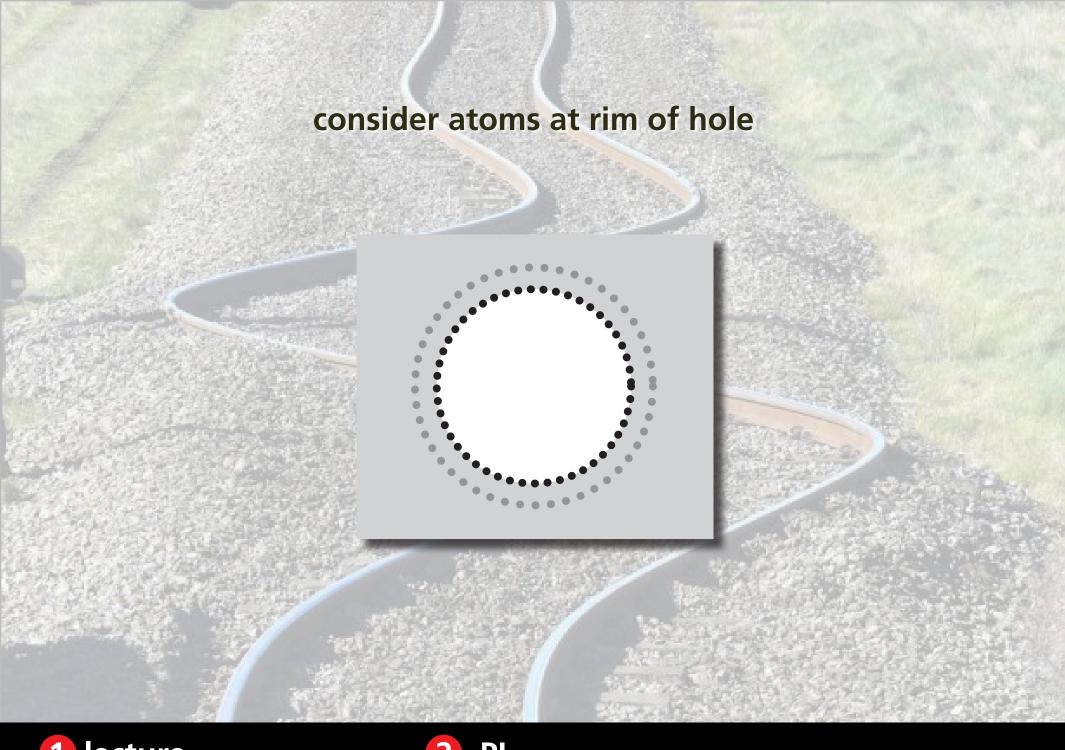
Consider a rectangular metal plate with a circular hole in it.

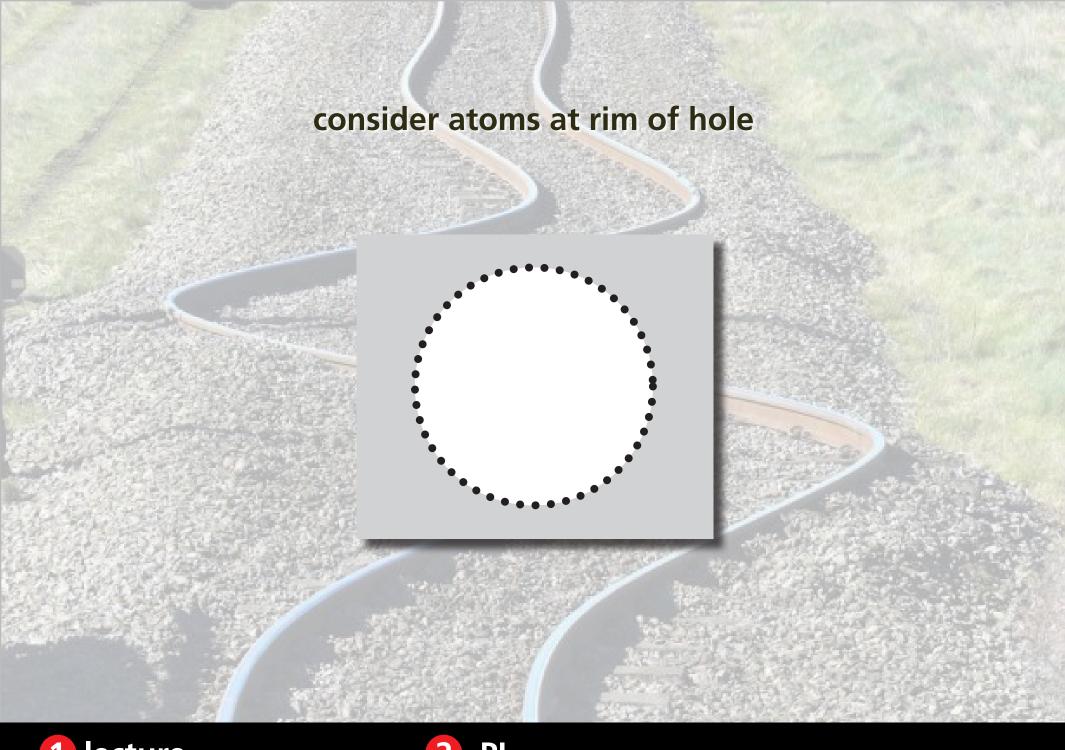
When the plate is uniformly heated, the diameter of the hole

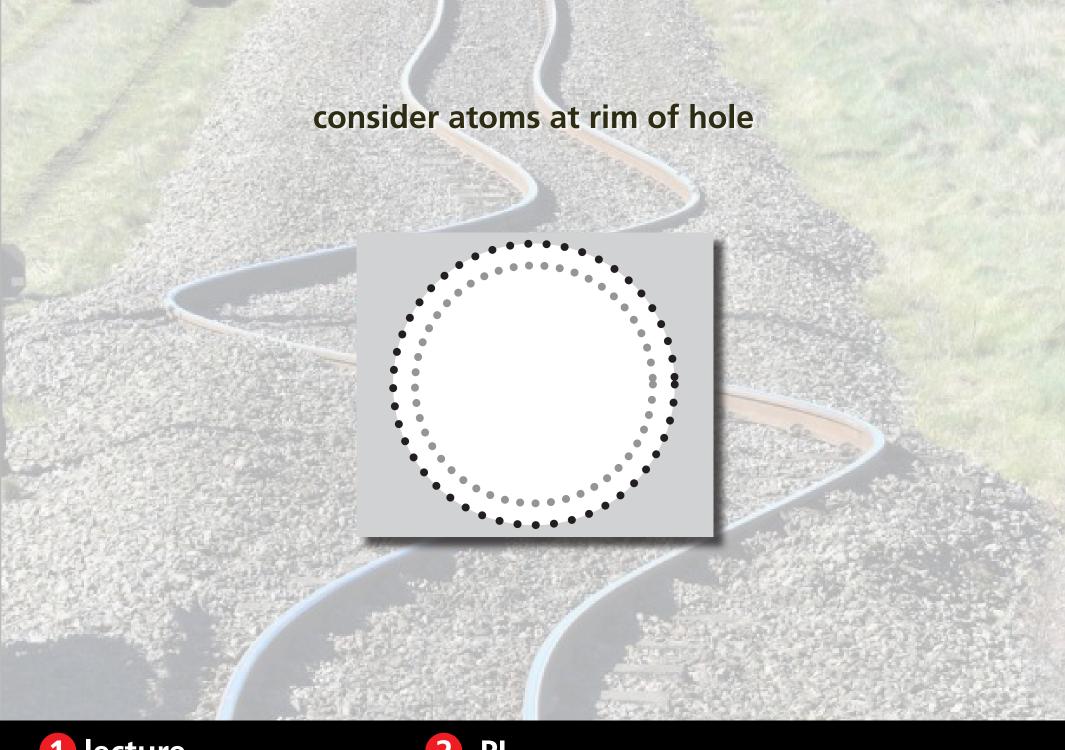
- 1. increases.
- 2. stays the same.
- 3. decreases.



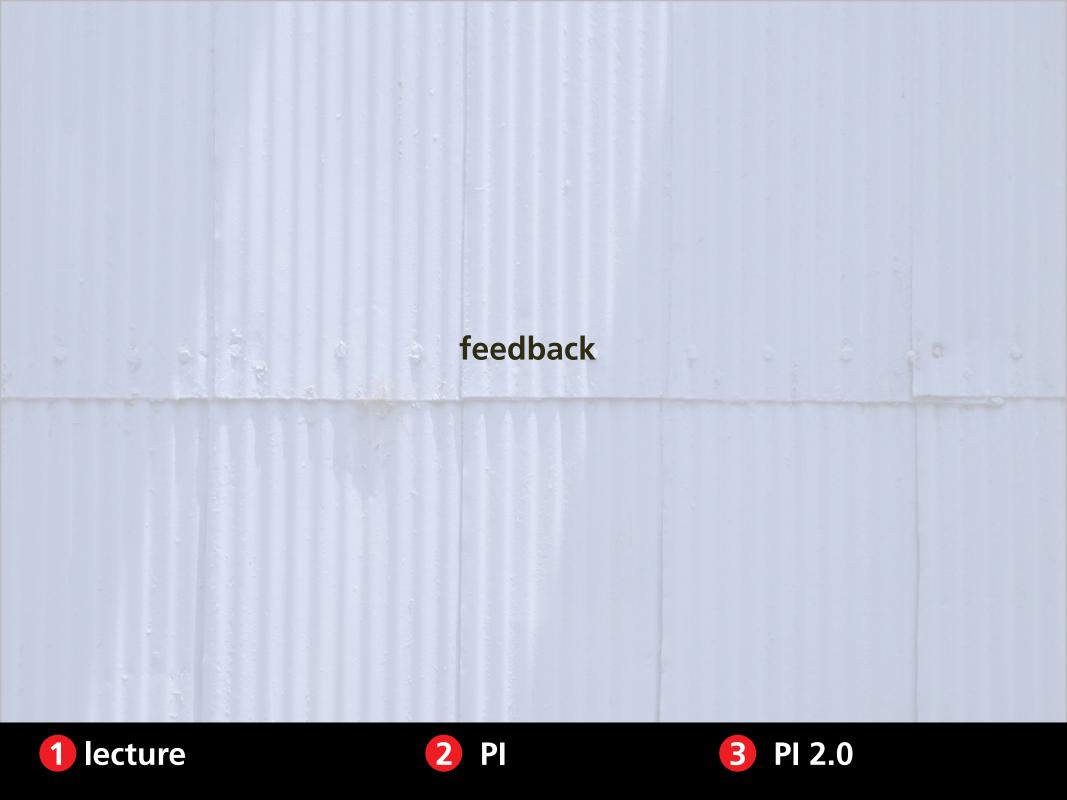
















1 lecture

2 PI

3

PI 2.0









Use intelligent algorithms and data analytics to...

improve questioning

manage discussions

facilitate time management/flow

catalytics

The biggest factor that leads American companies to manufacture usen promotes over a. b. C. Which of the following correctly summarizes the accounting equation for a sole proprietorship? India is: 2. a. In order to present a business plan to a group of potential investors, a businessperson would most likely use which b. C. 3. a. b. C. In order to start an online business, and individual would need all but which of the following: 4. a. b. C. , business model torreciation? 5. PI 2.0 PI lecture

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The biggest factor that leads American companies to manufacture until produces over
       D.
                        Wextensible plug-in's equity

Assets = Liabilities Assets + Owner's equity

Nextensible plug-in's equity

Assets = Liabilities Assets + Liabilities

Nextensible plug-in's equity

Assets = Liabilities Assets + Dwild and Assets + Liabilities

Nextensible plug-in's equity

Assets - Liabilities

Owner's equity

Order to present a business plan to a group of potential investors, a business plan to a group of potential investors.
              India is:
2.
                    D.
                                    In order to present a business plan to a group of potential investors, a business
              3.
                                                In order to start an online business, and individual would need all but which of the following.
                          4.
                                                                        business model
                                                                                                                                                                                                               reciation?
                                                                                                                                                                                                               PI 2.0
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                   lecture
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The biggest factor that leads American companies to manufacture men products over an annufacture men products over the biggest factor that leads American companies to manufacture men products over the biggest factor that leads American companies to manufacture men products over the biggest factor that leads American companies to manufacture men products over the biggest factor that leads are supported by the biggest factor that leads are suppor Effective legal system

Effective legal system

expression

h of the following Higher quality of craftsm India is: Iong answer, short answer, word cloud (fill in text)

\* multiple-choice many chair

\*\*Tight of the line of the lin numerical (enter a number) • ranking norder to priking In order to start an online business, and individual would need all but which of the following. business model eciation? PI 2.0 lecture

1. Go to: http://LCatalytics.com

2. Create student account with signup code DEMO

3. Join session 1234567

4. Pick your seat from the seat map



1 lcatalytics.com

2 create student account

**3** ID 1234567

Courses Participate Review Classrooms Account Institutions Purchases Users Tour Help

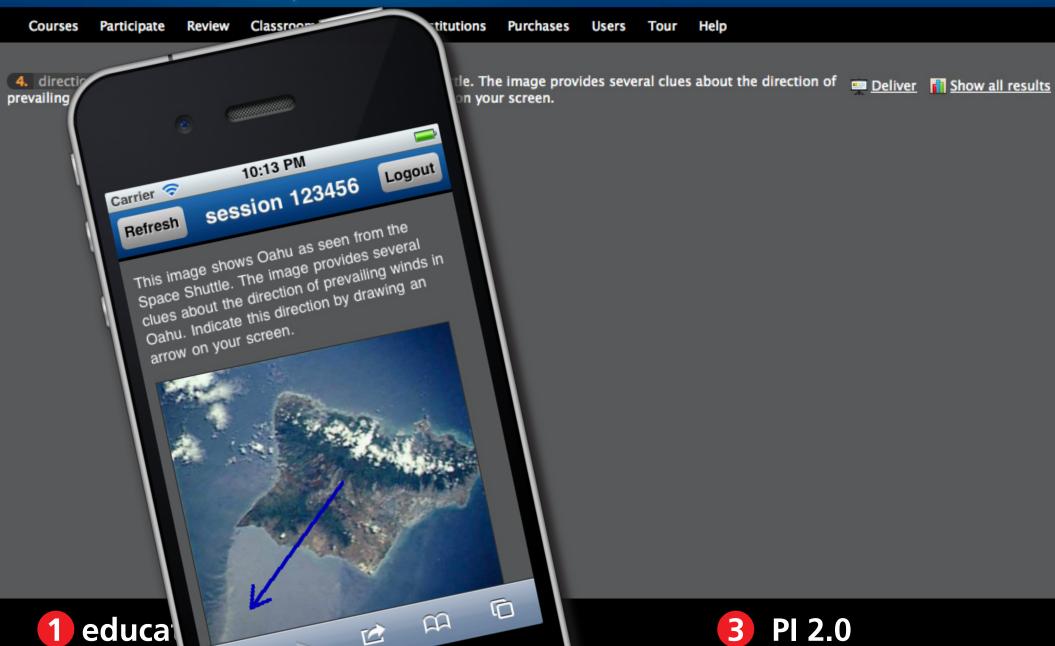
4. direction This image shows Oahu as seen from the Space Shuttle. The image provides several clues about the direction of Deliver Show all results prevailing winds in Oahu. Indicate this direction by drawing an arrow on your screen.

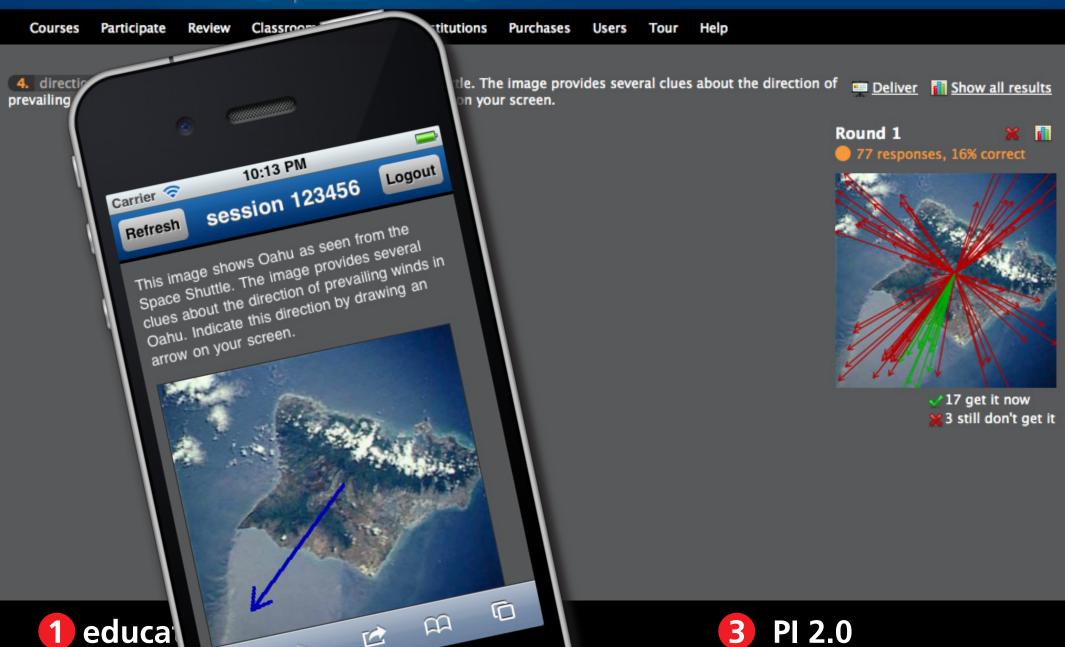


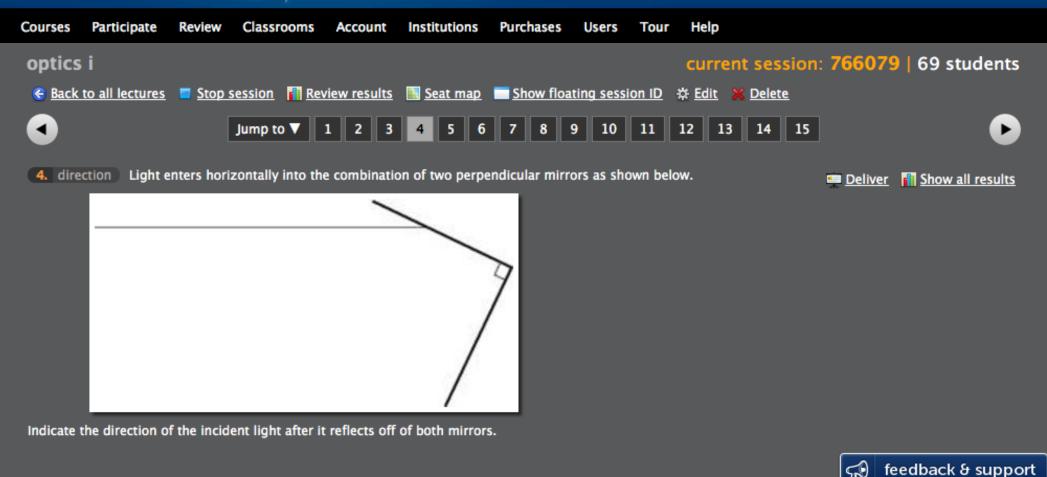




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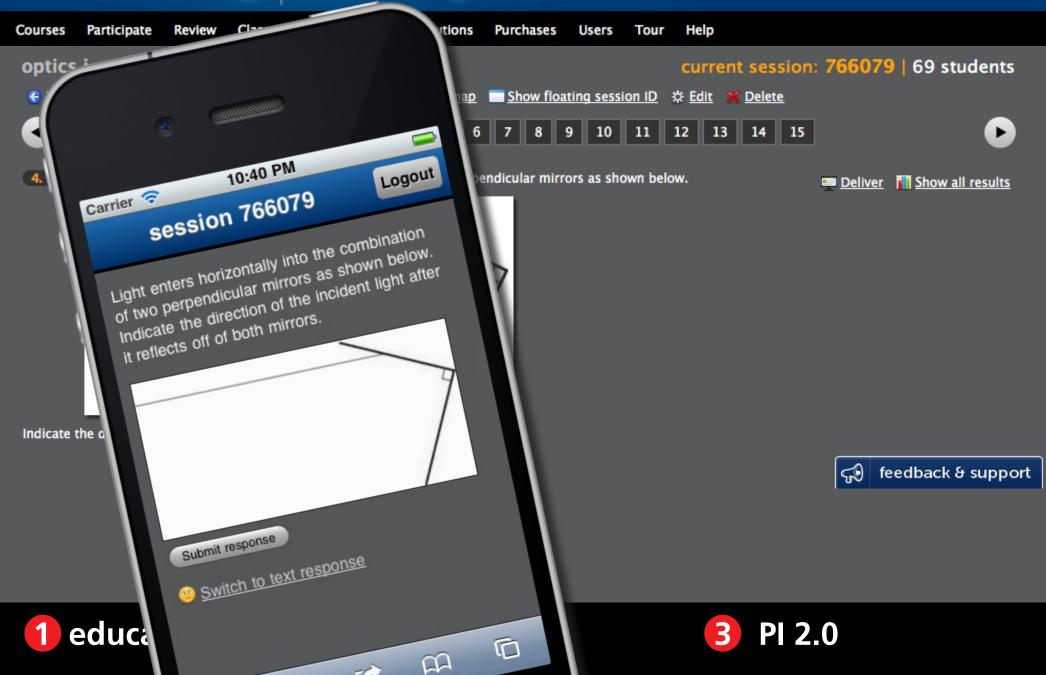


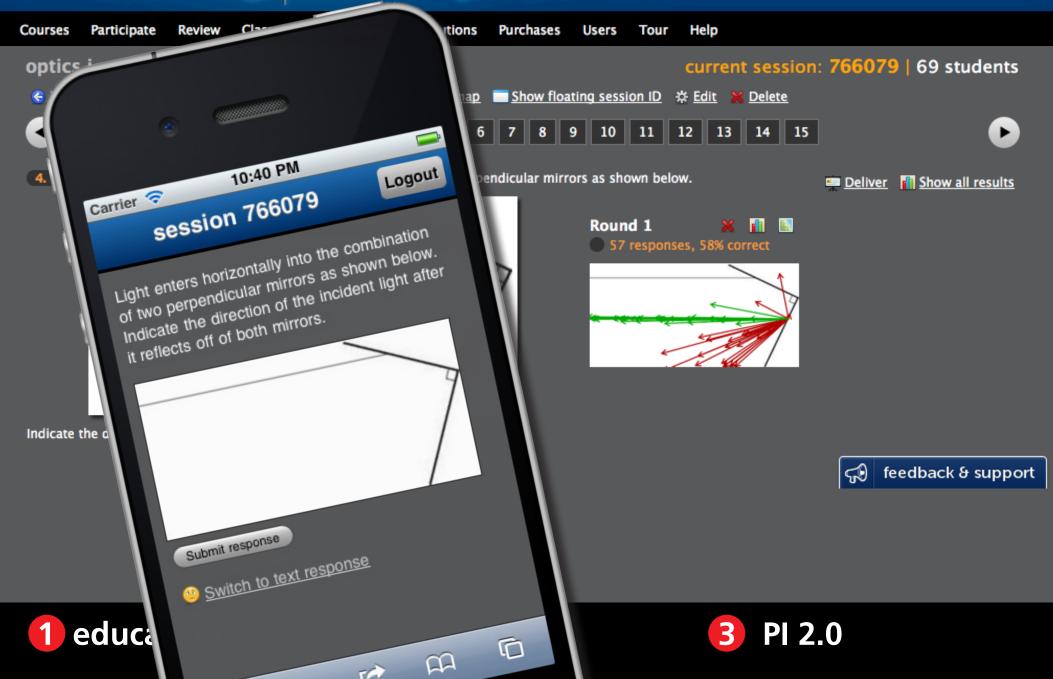


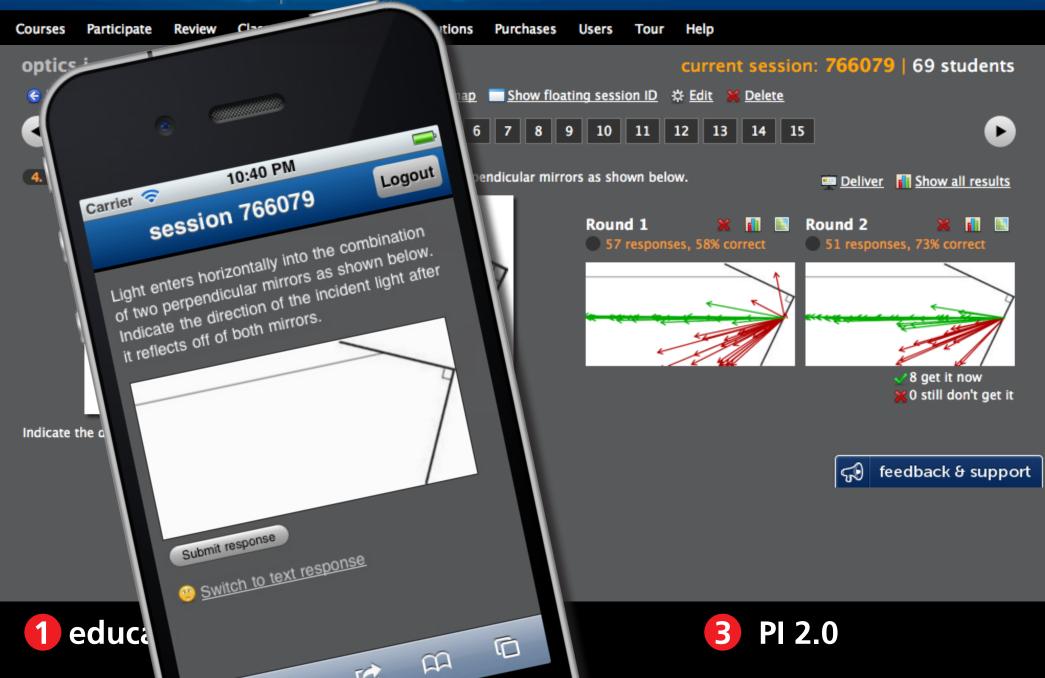
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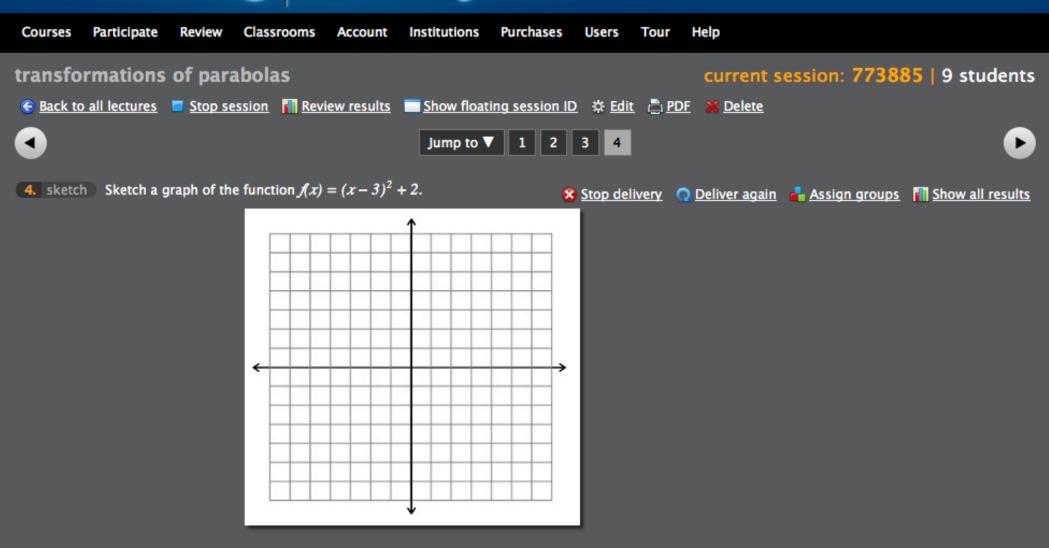
### learning catalytics

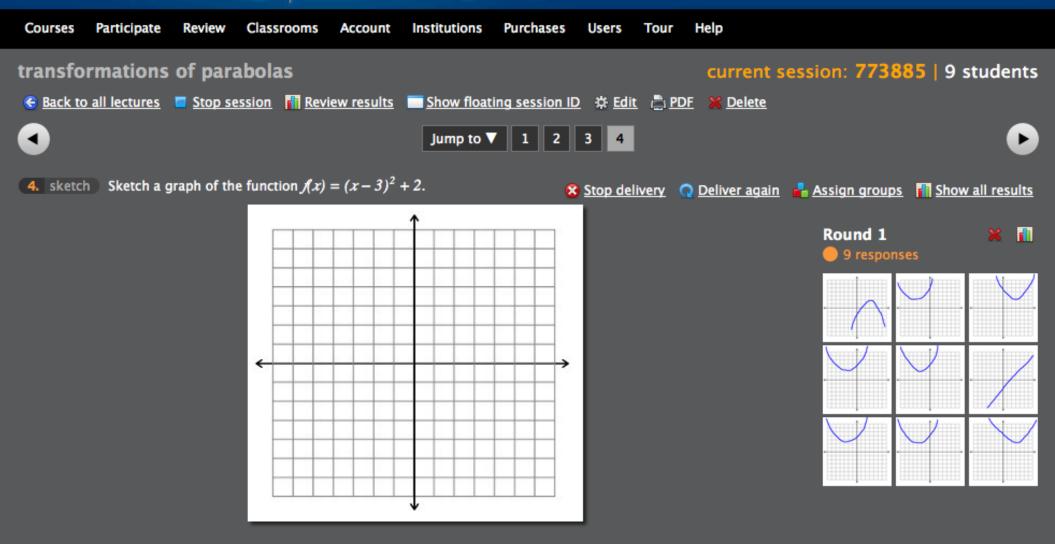
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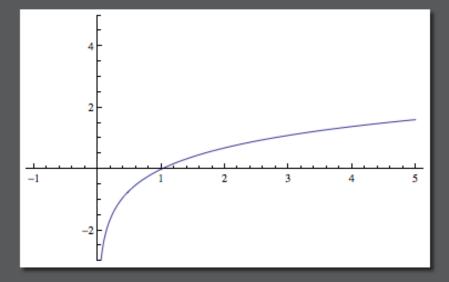






Courses Participate Review Classrooms Account Institutions Purchases Users Tour Help

This is a graph of  $f(x) = \ln x$ . Sketch a graph of the derivative f'(x).







**Participate** Help Courses Review Classrooms Account Institutions Purchases Users Tour

What do you see as the most important part of this Shakespeare 1. highlighting sonnet?

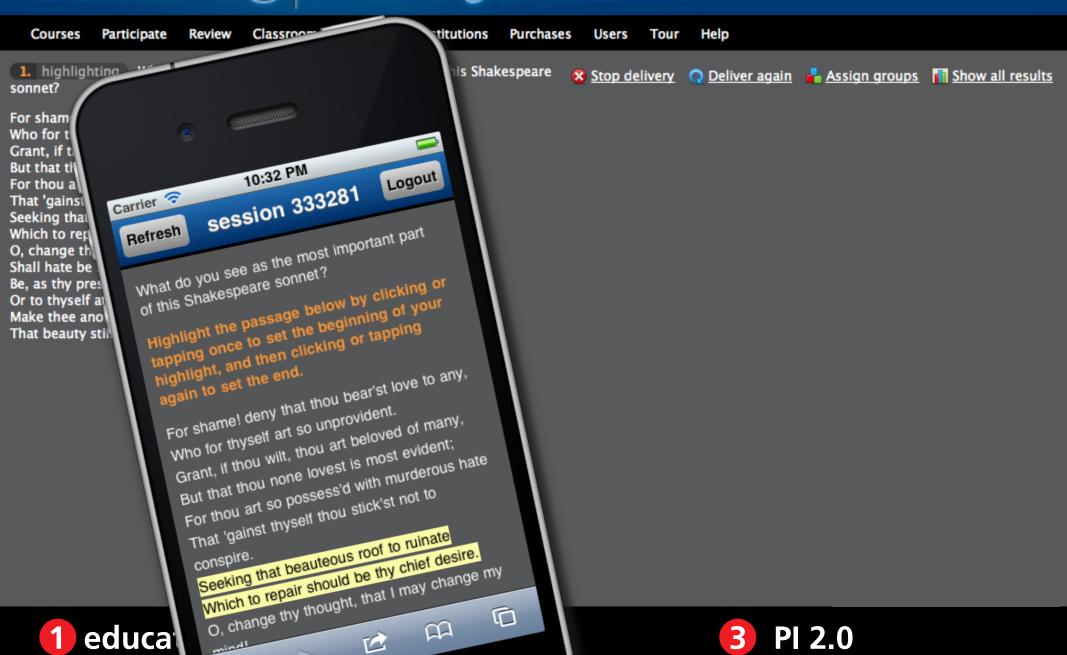
Stop delivery 🕠 Deliver again 🔓 Assign groups 👖 Show all results

For shame! deny that thou bear'st love to any, Who for thyself art so unprovident. Grant, if thou wilt, thou art beloved of many, But that thou none lovest is most evident; For thou art so possess'd with murderous hate That 'gainst thyself thou stick'st not to conspire. Seeking that beauteous roof to ruinate Which to repair should be thy chief desire. O, change thy thought, that I may change my mind! Shall hate be fairer lodged than gentle love? Be, as thy presence is, gracious and kind, Or to thyself at least kind-hearted prove: Make thee another self, for love of me, That beauty still may live in thine or thee.





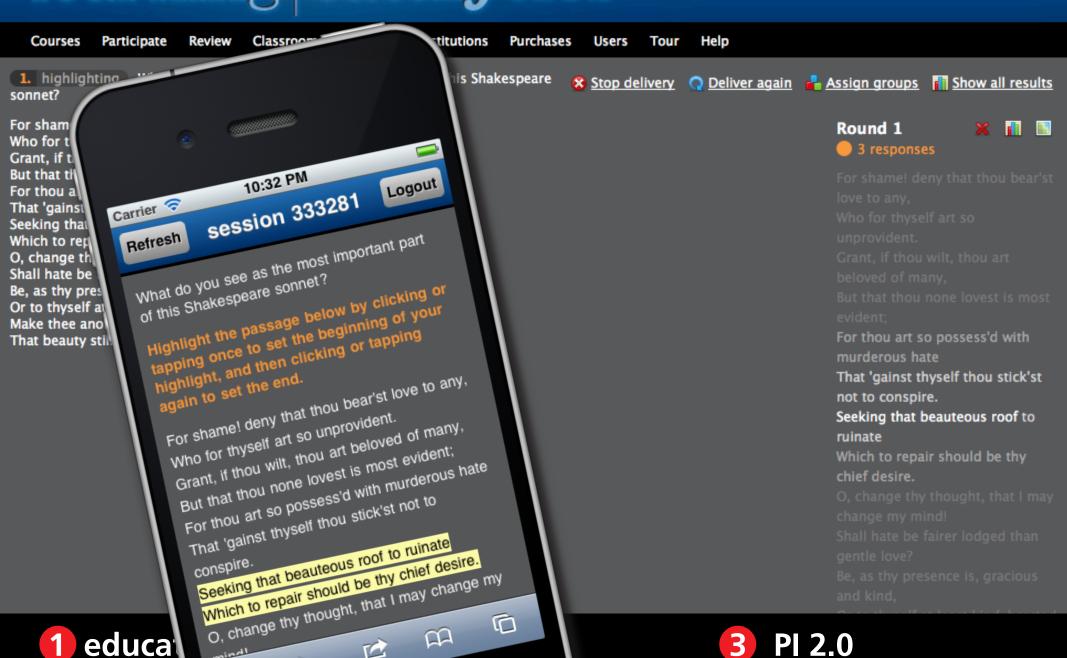


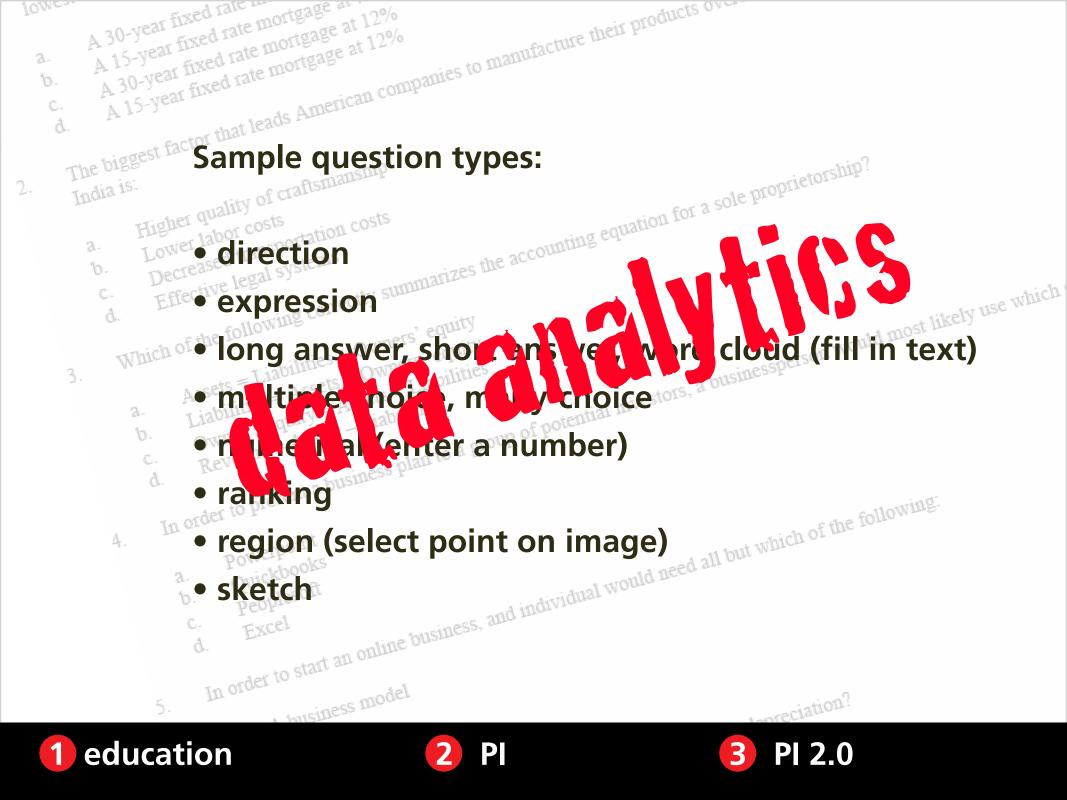


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## learning catalytics

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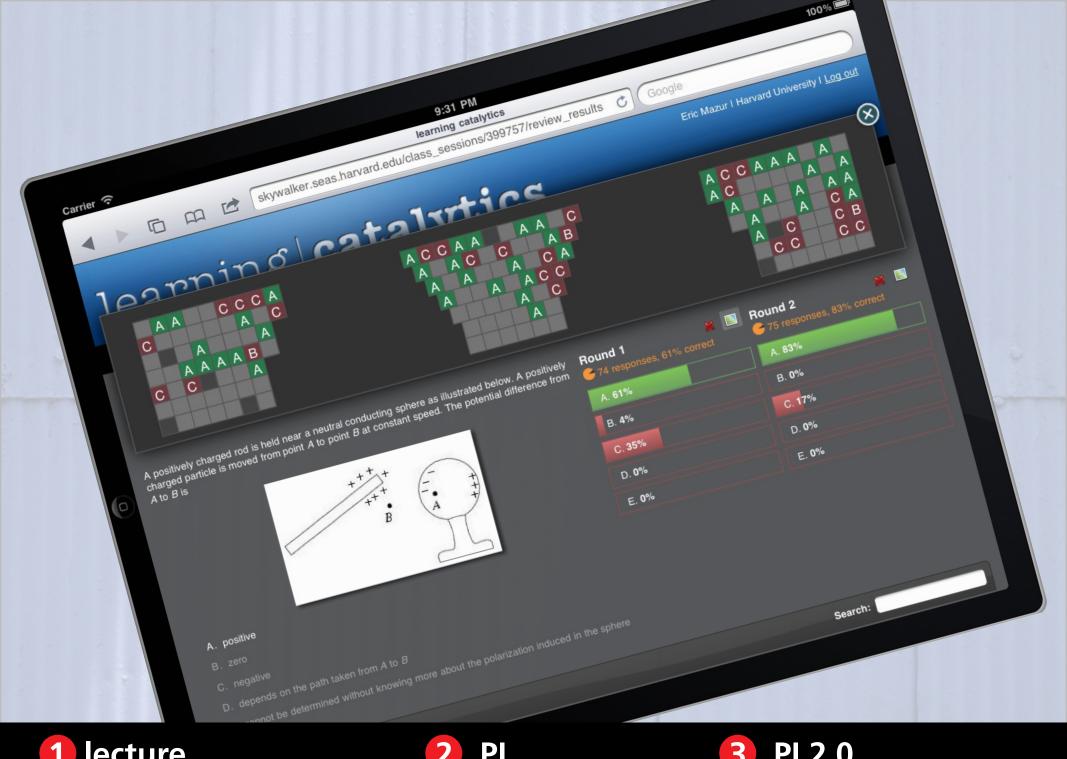












PI

PI 2.0 3



3



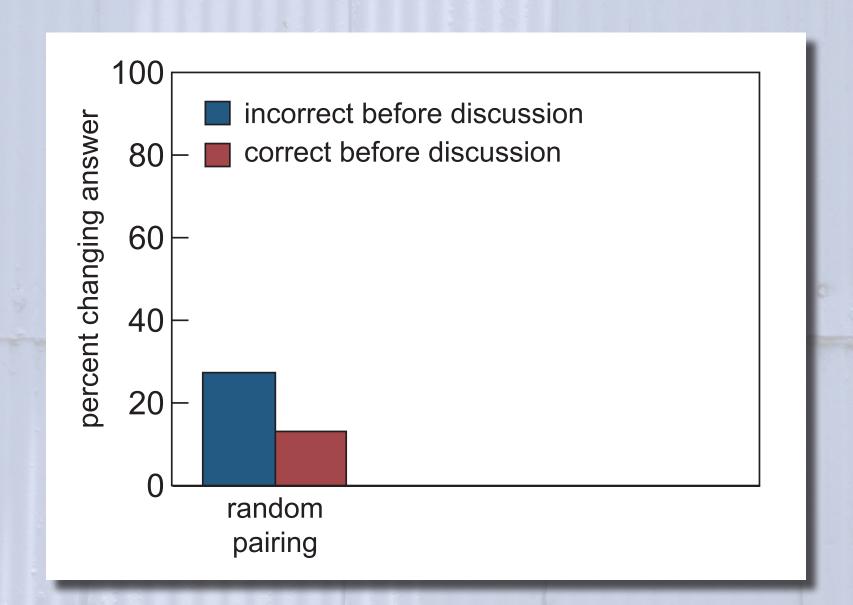
let system manage pairing 1 lecture PI 2.0

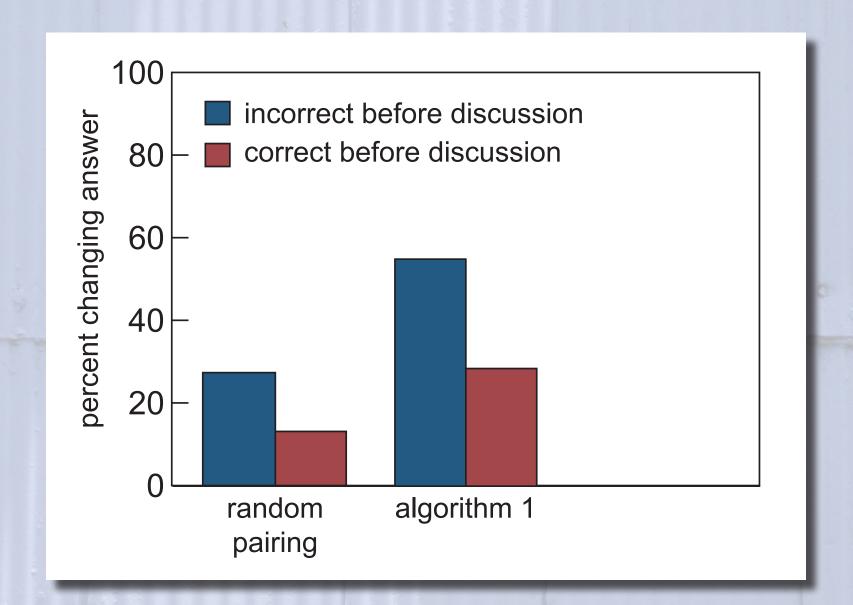


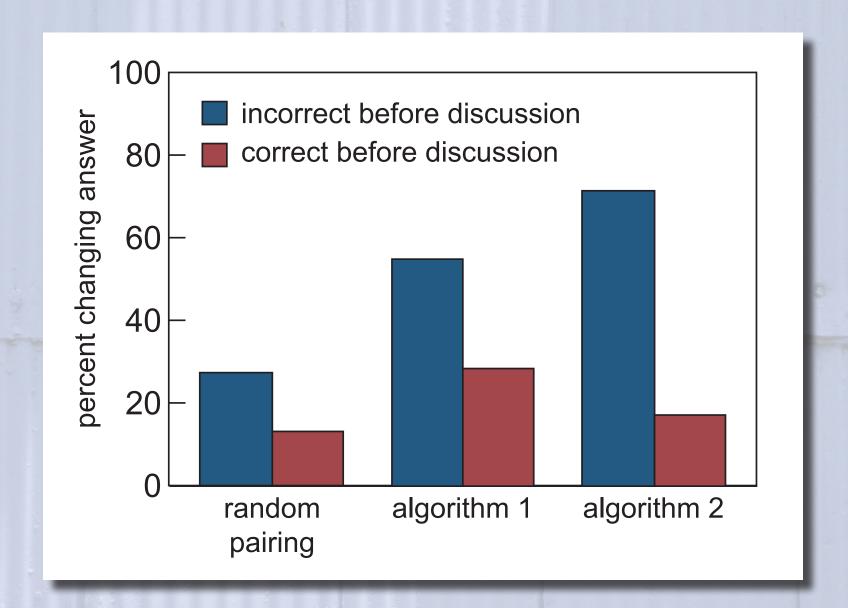
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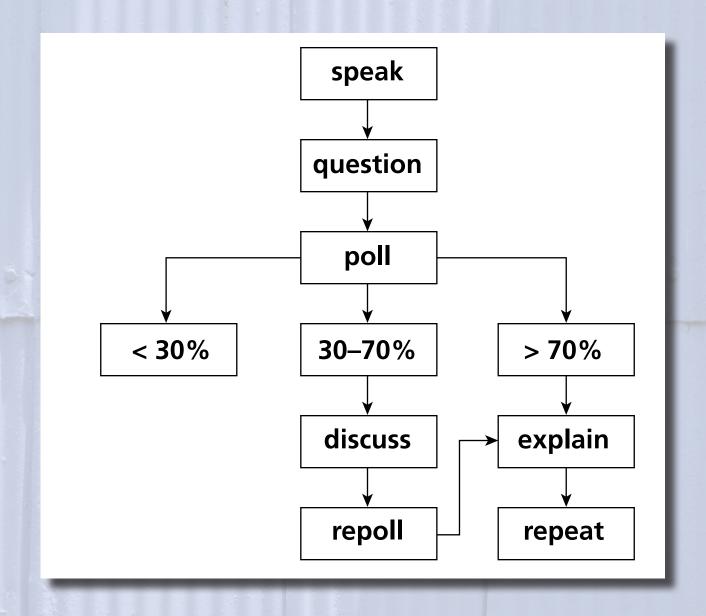


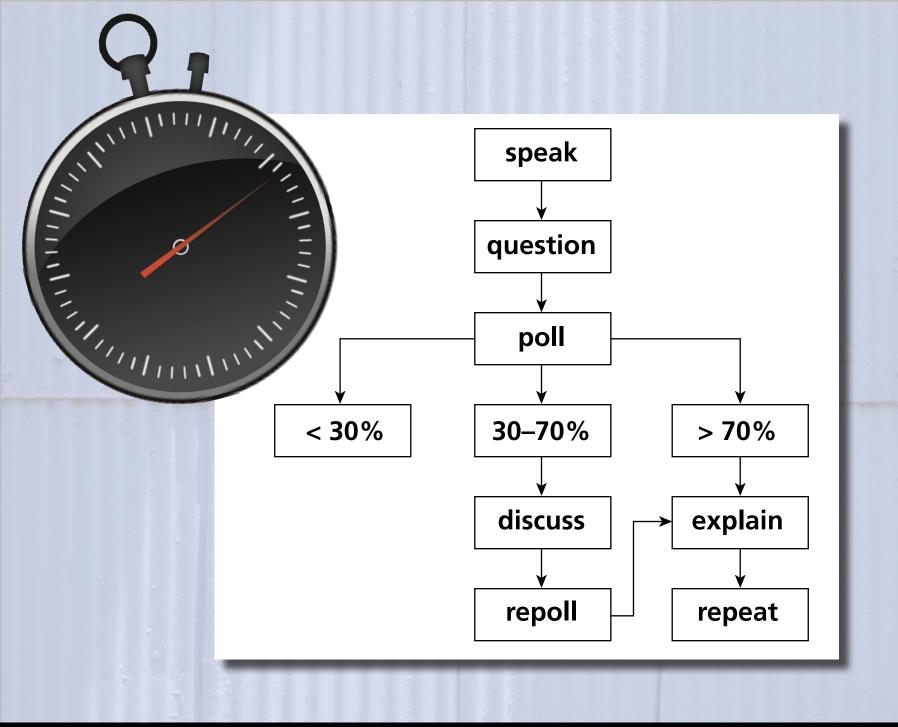




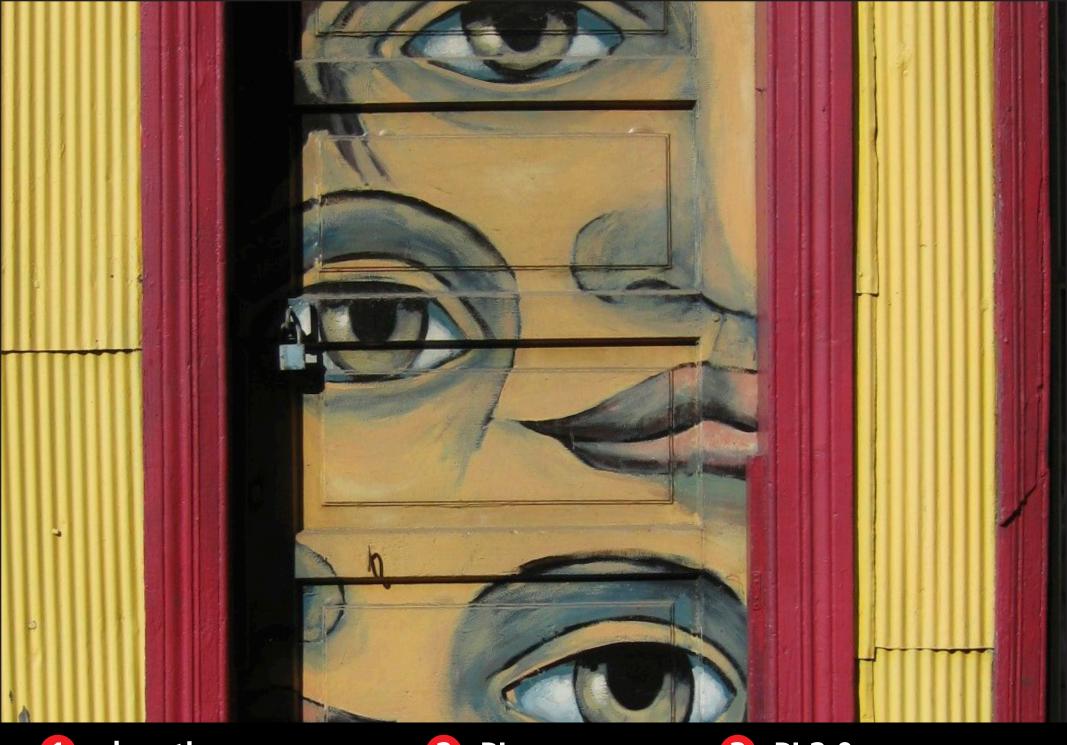










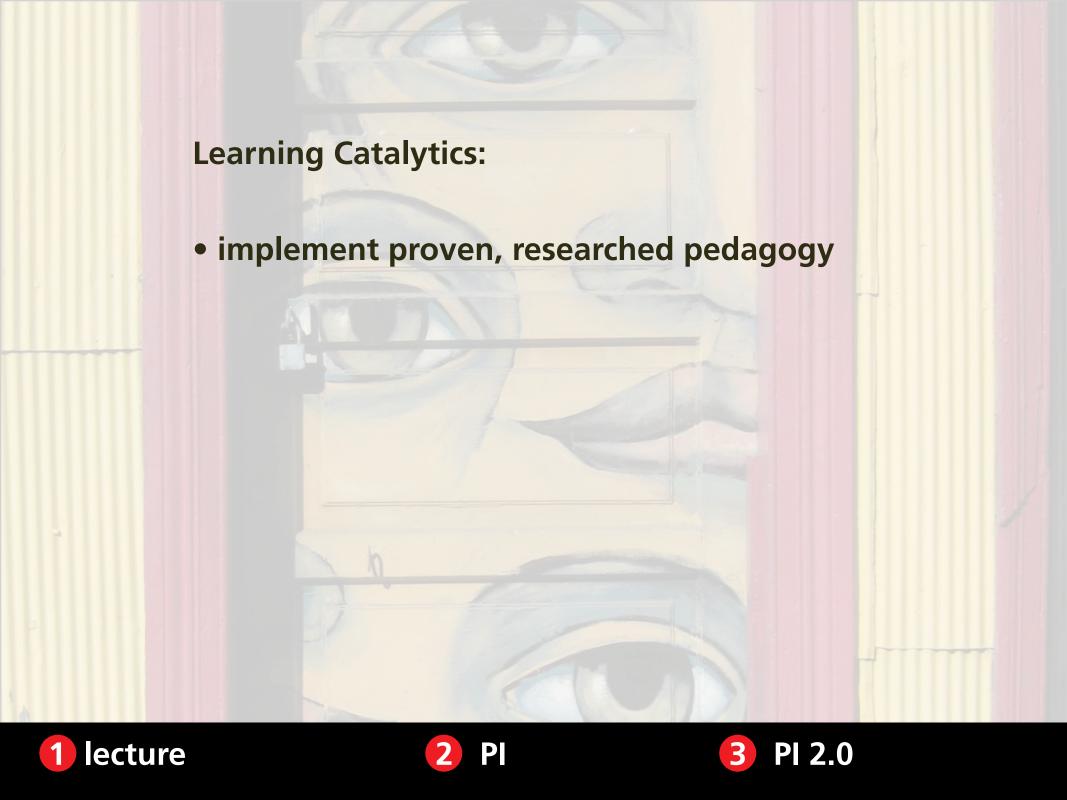


1 education

2 PI

3 F

PI 2.0



## **Learning Catalytics:**

- implement proven, researched pedagogy
- use consumer devices

**Learning Catalytics:** 

implement proven, researched pedagogy

use consumer devices

avoid pitfalls of MC assessment

**Learning Catalytics:** 

implement proven, researched pedagogy

use consumer devices

avoid pitfalls of MC assessment

• create a smart classroom anywhere



**National Science Foundation** 

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