Getting every student ready for every class





Getting every student ready for every class







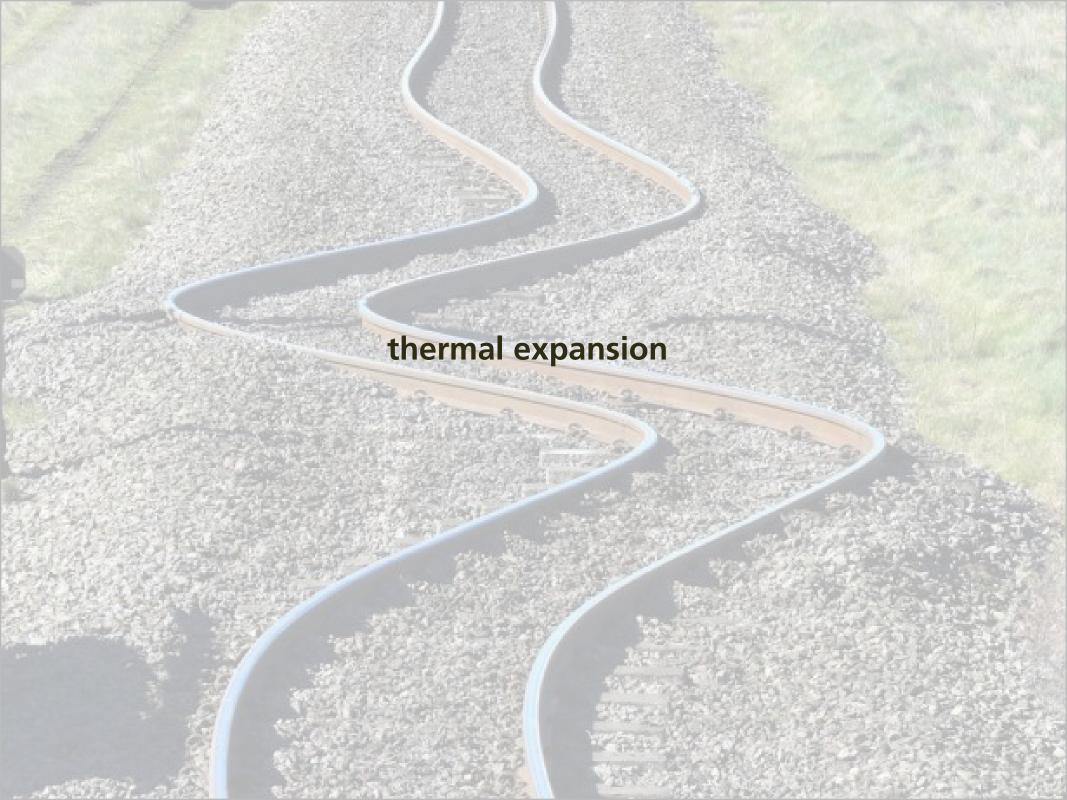


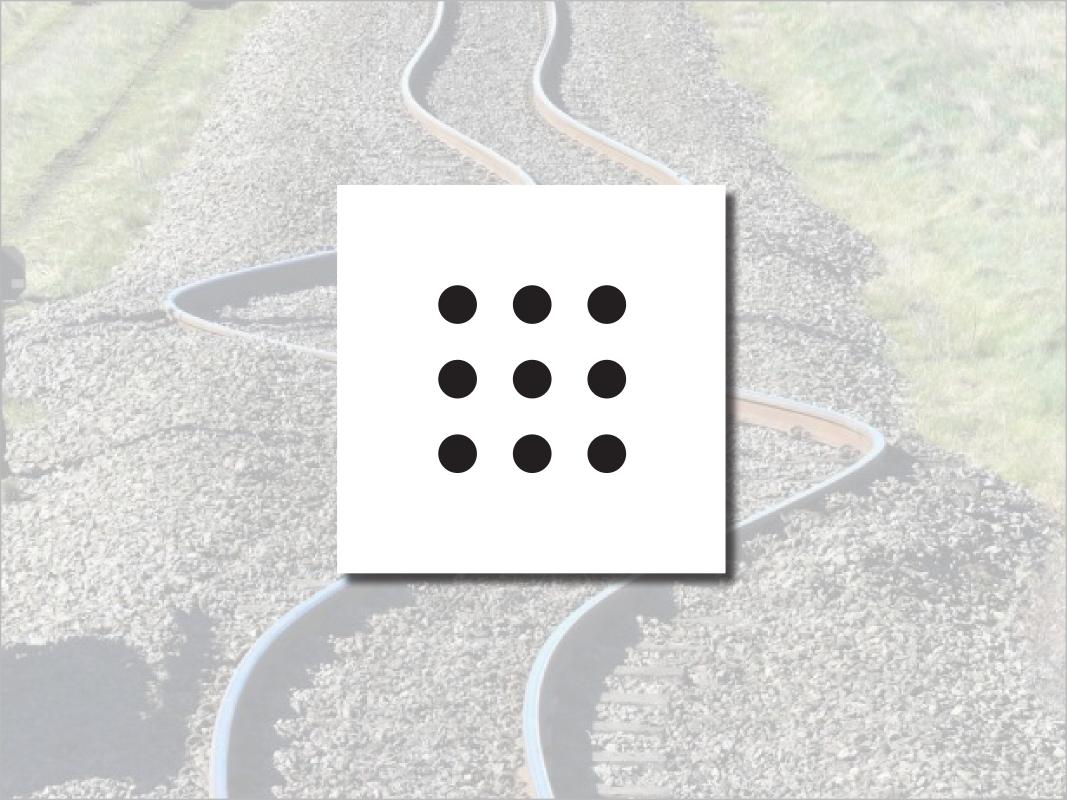


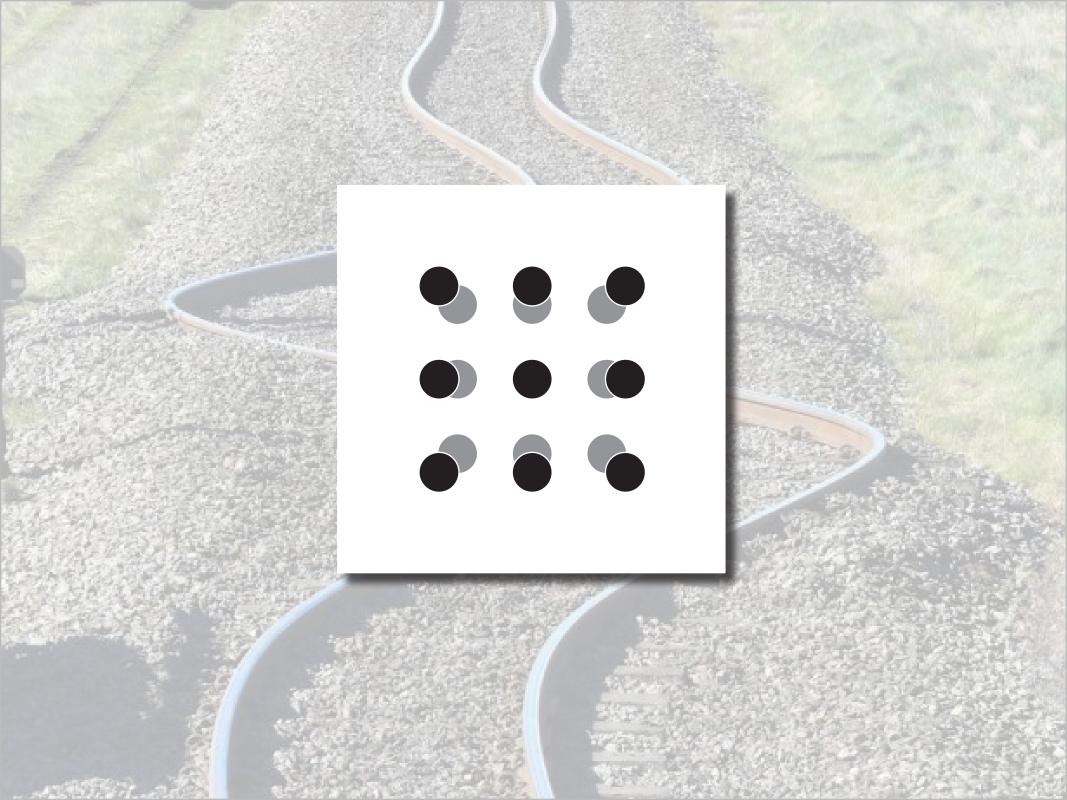






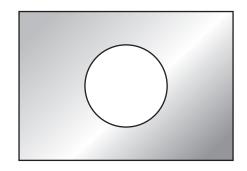




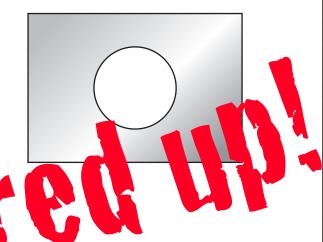






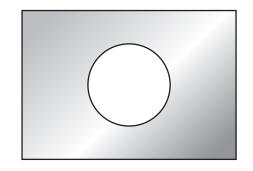


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- 3. decreases.



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- 1. increases.
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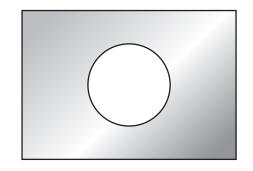
1. made a commitment

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

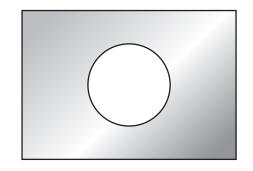
- 1. made a commitment
- 2. externalized your answer
- 3. moved from the answer/fact to reasoning

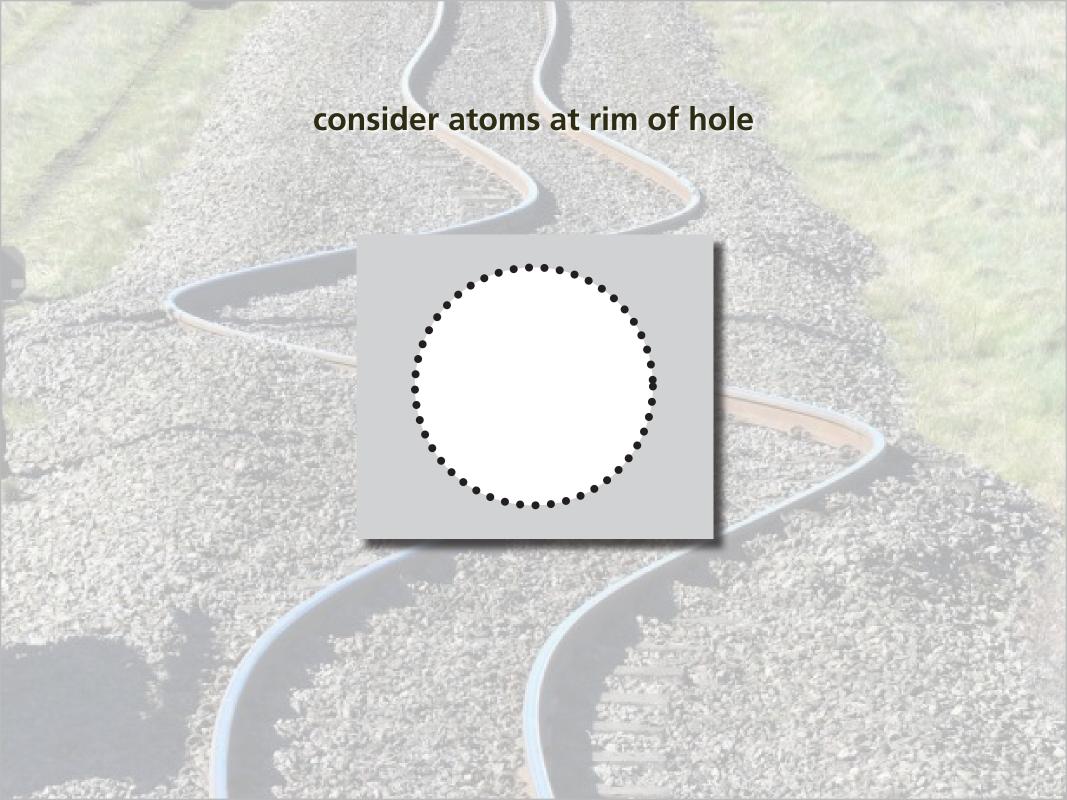
- 1. made a commitment
- 2. externalized your answer
- 3. moved from the answer/fact to reasoning
- 4. became emotionally invested in the learning process

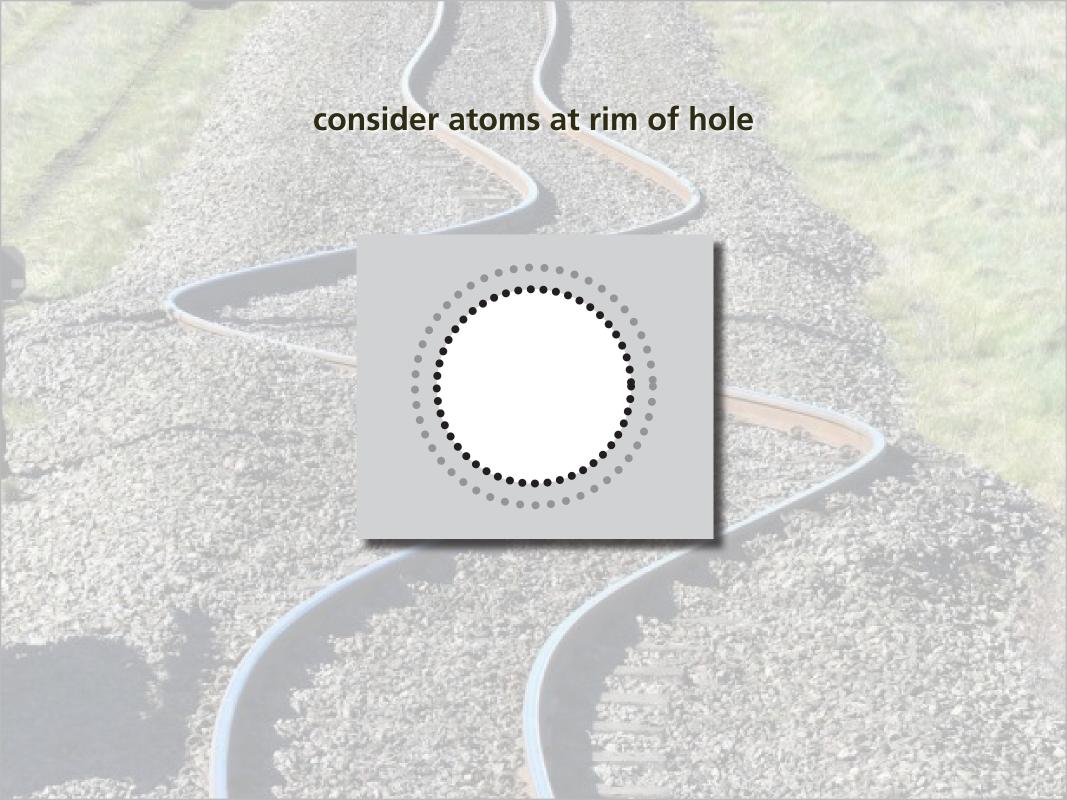
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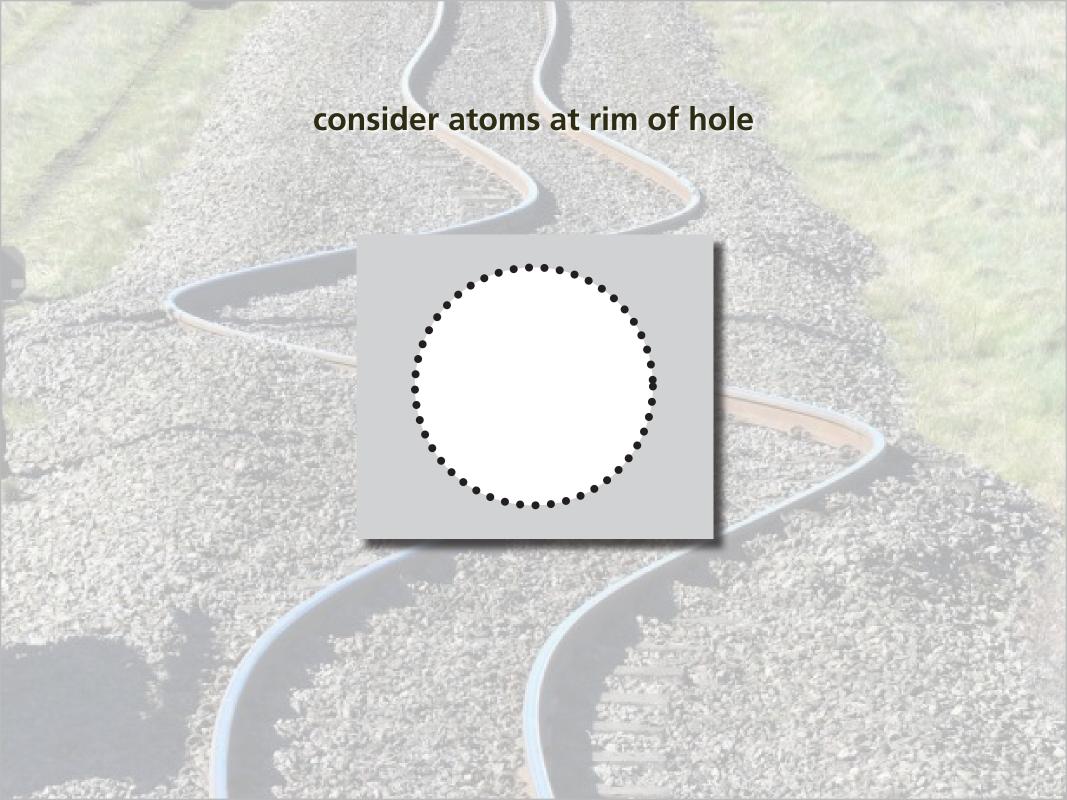


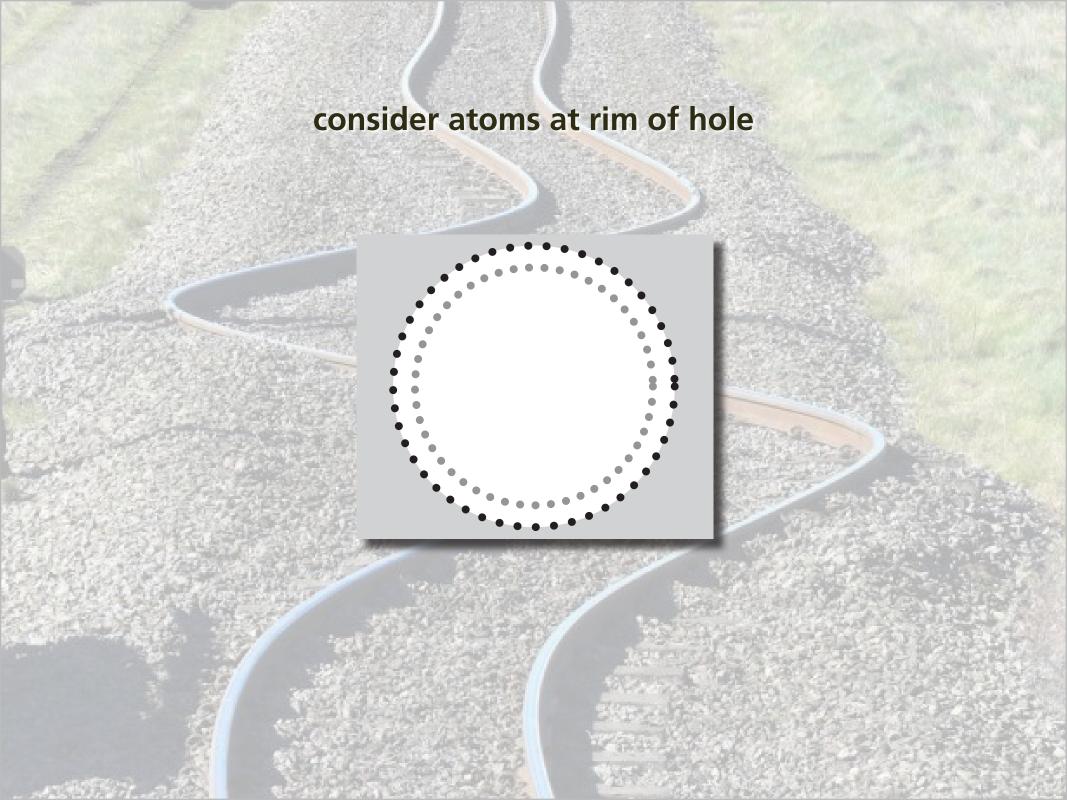
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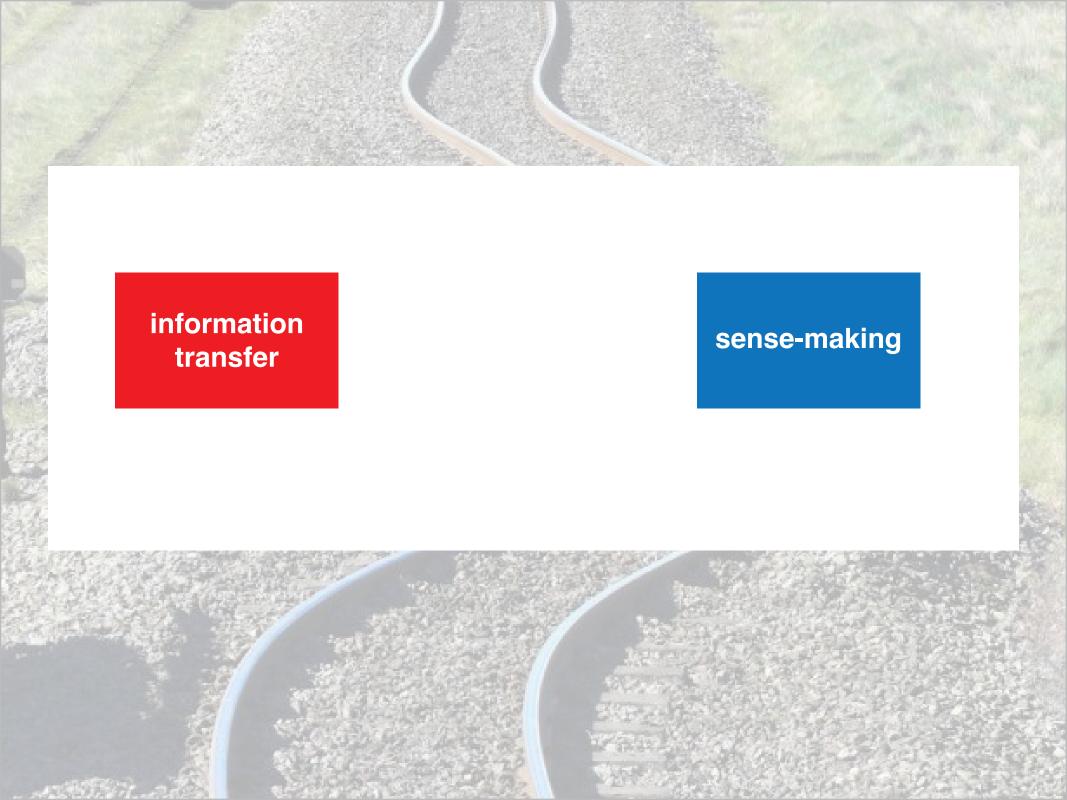


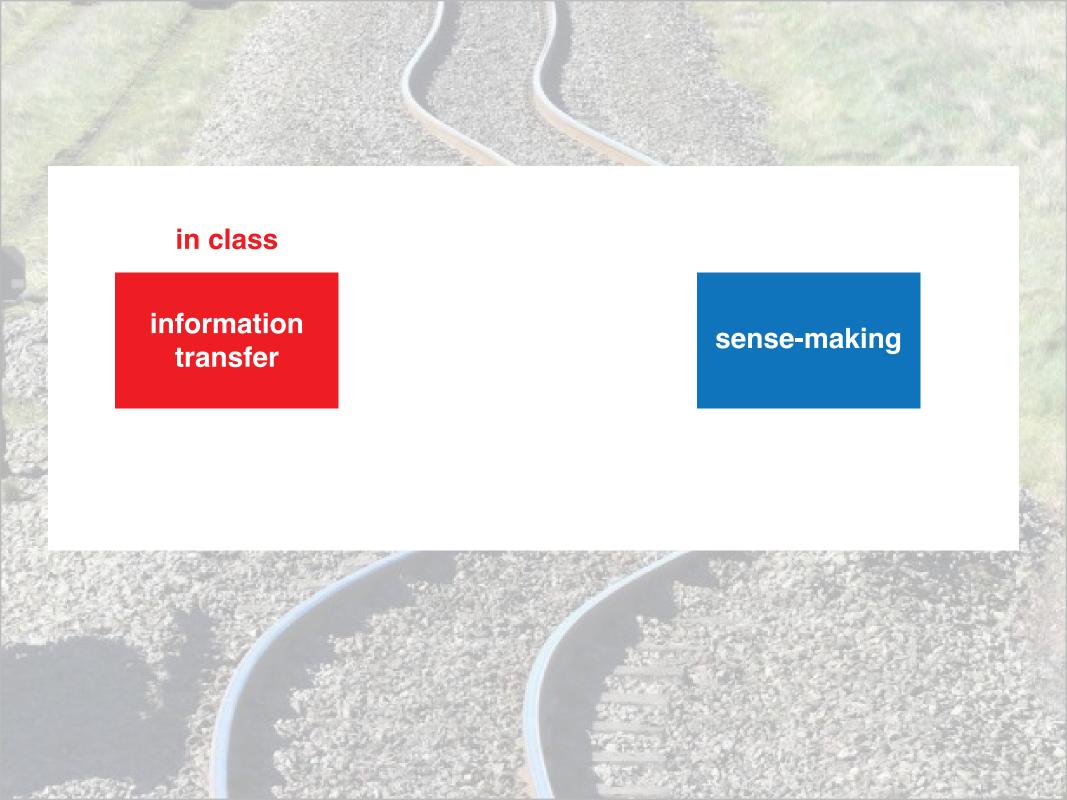


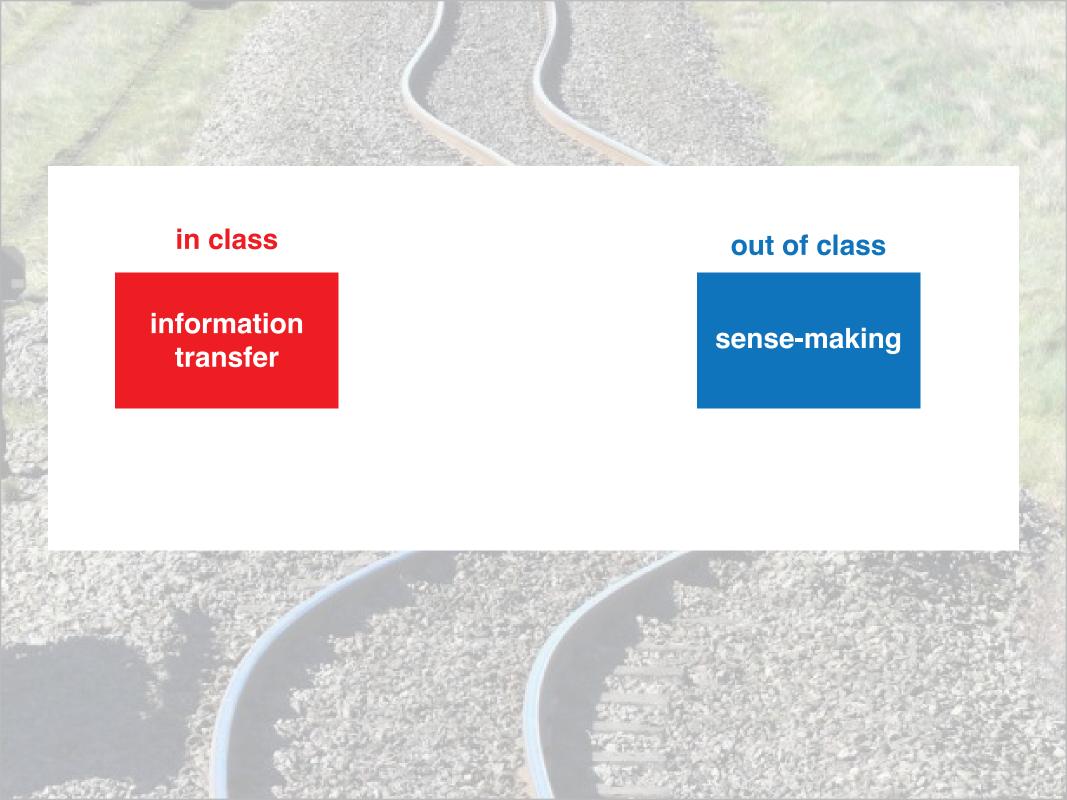


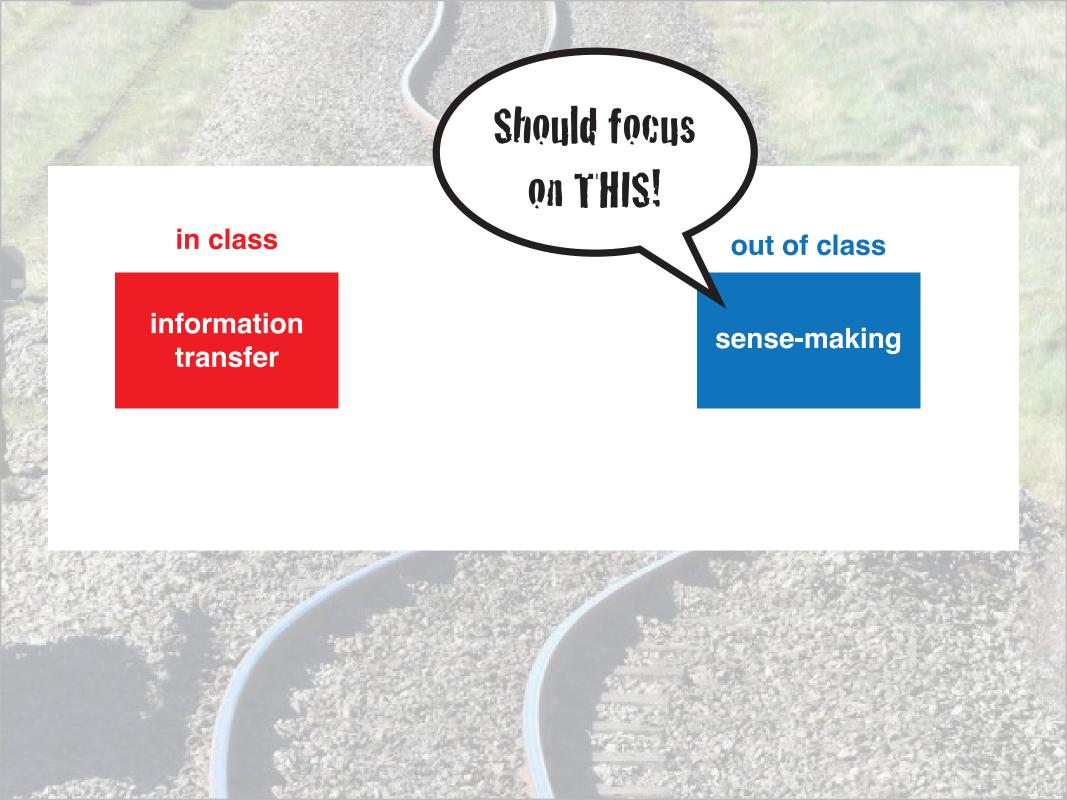


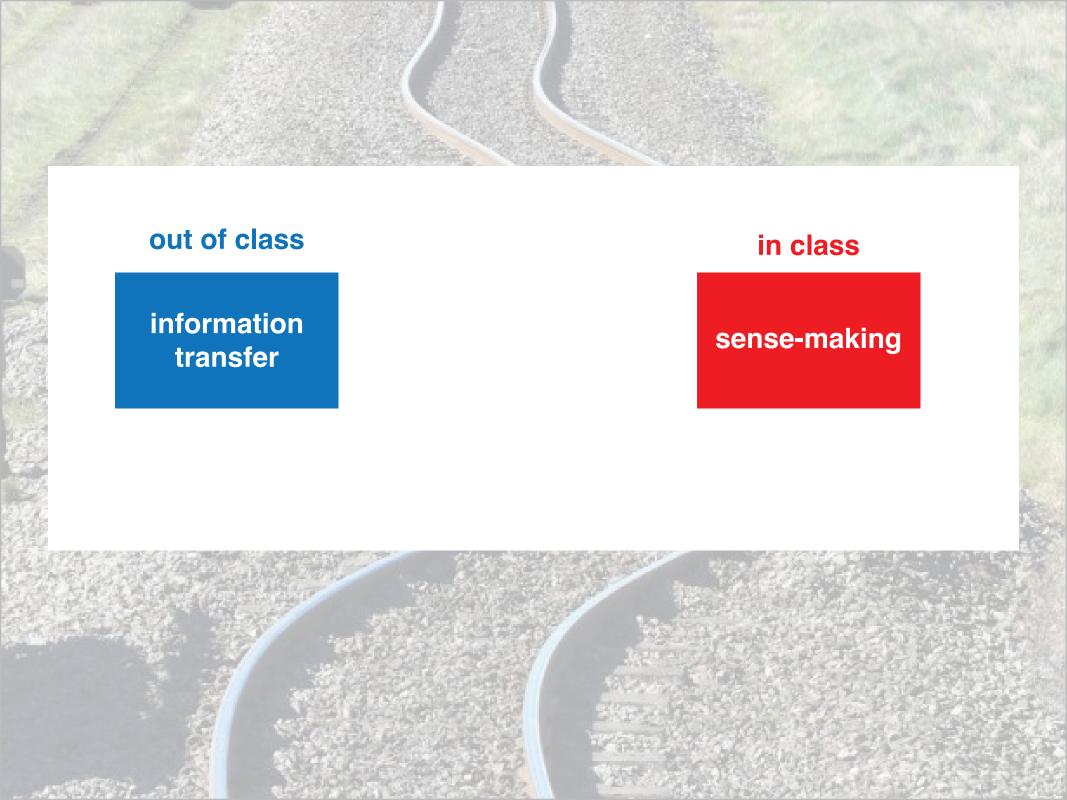


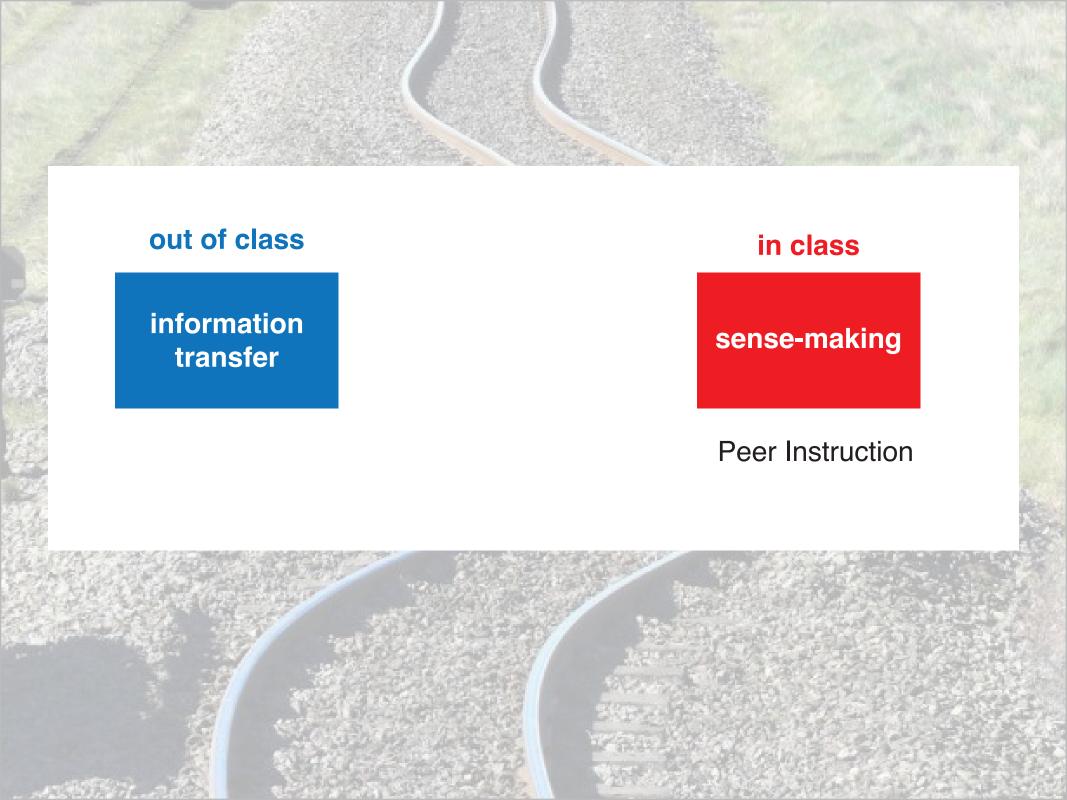




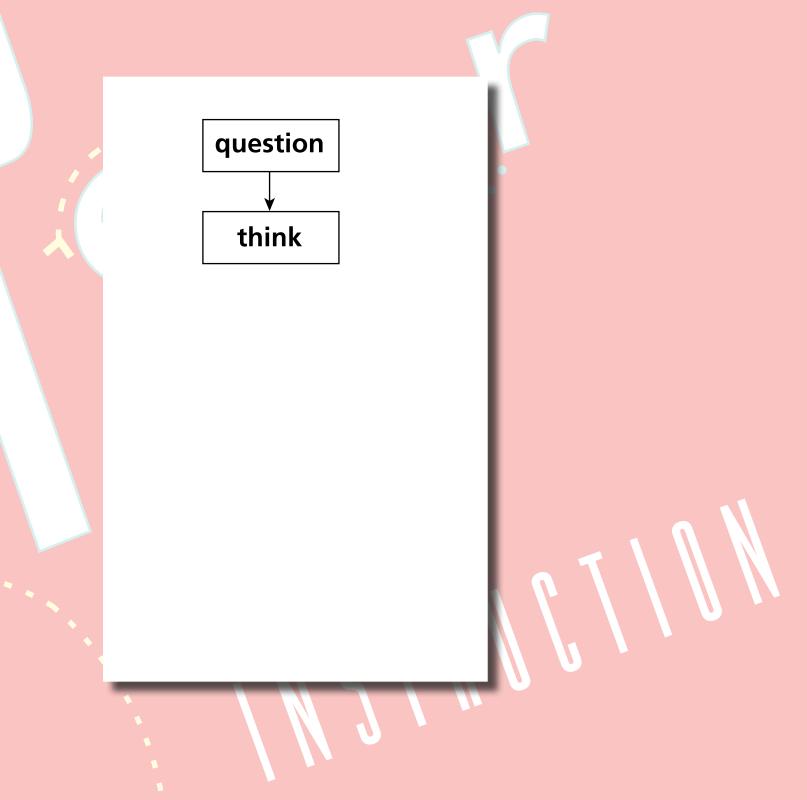


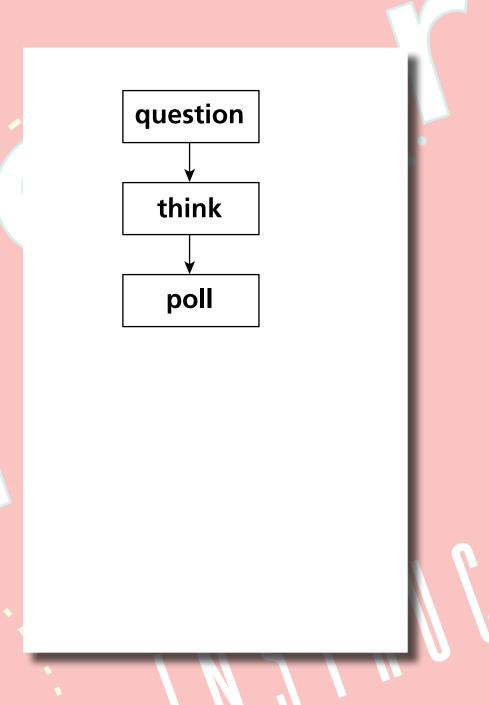


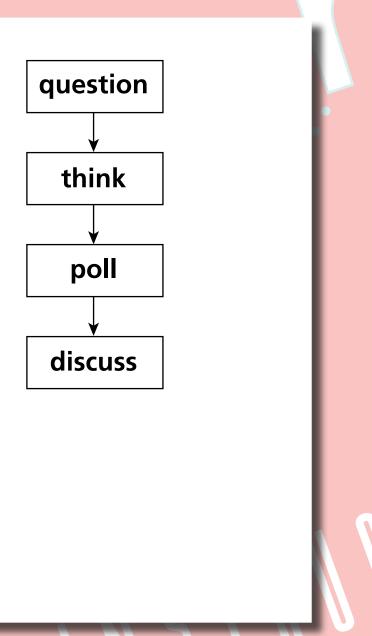


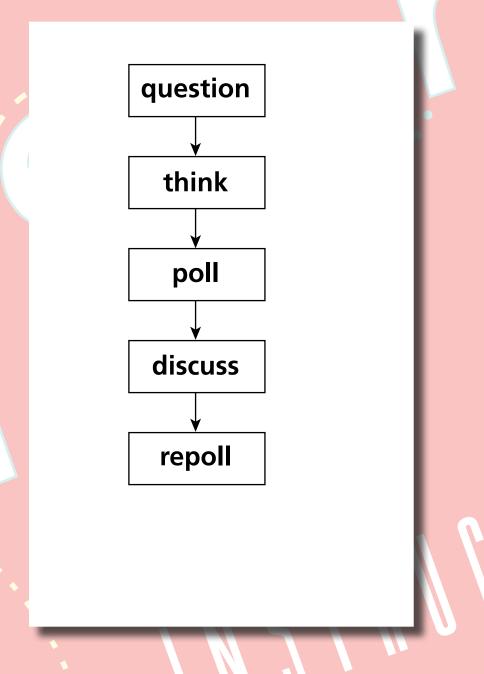


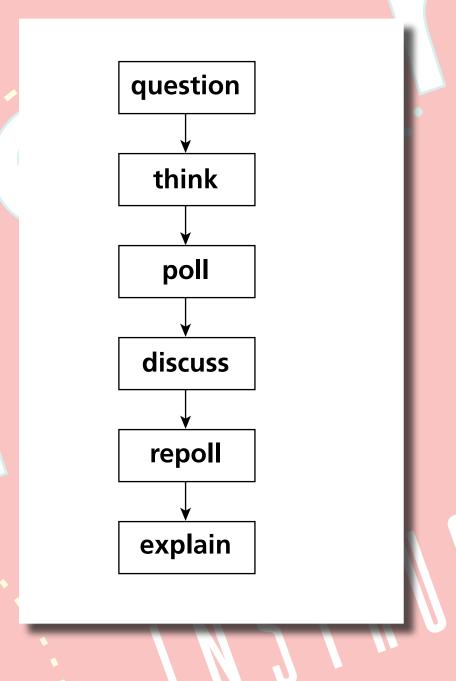
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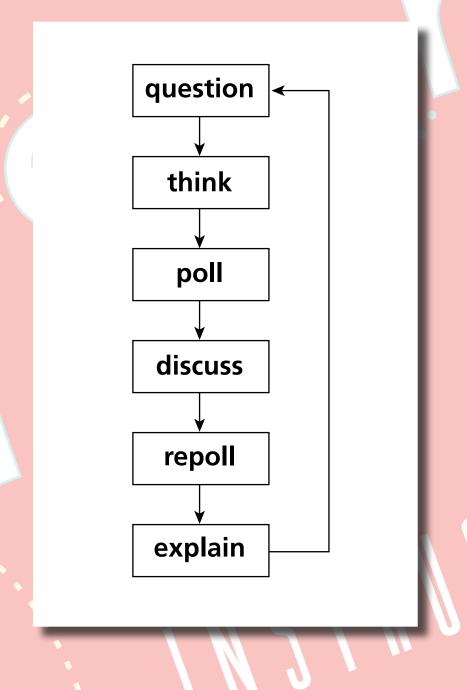


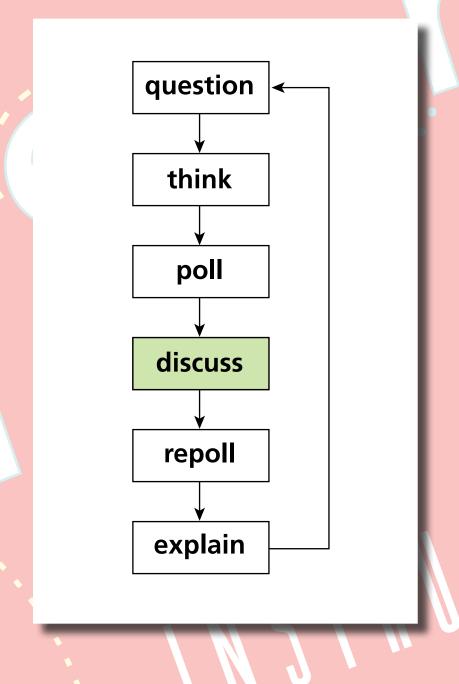




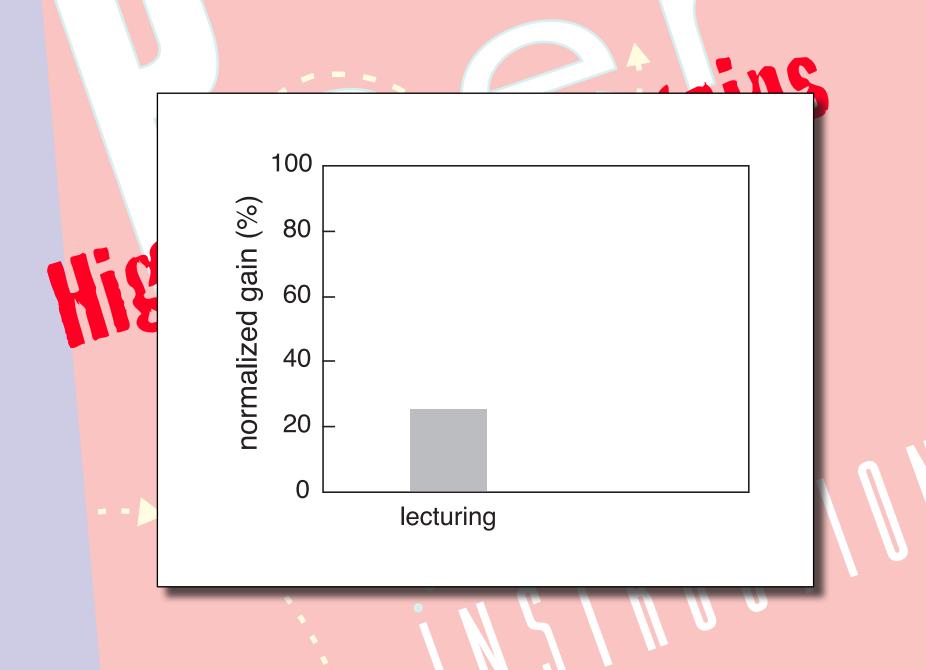


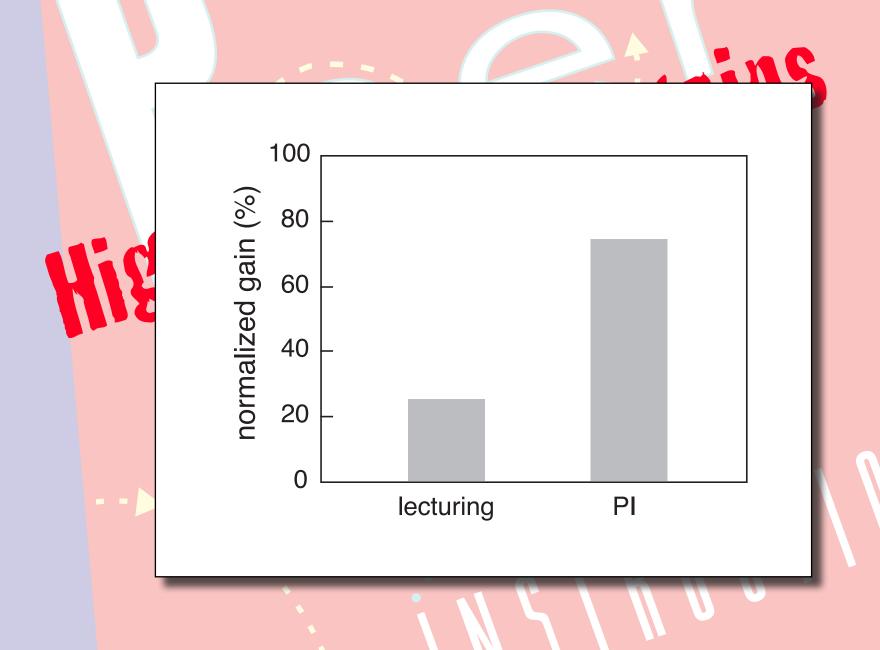




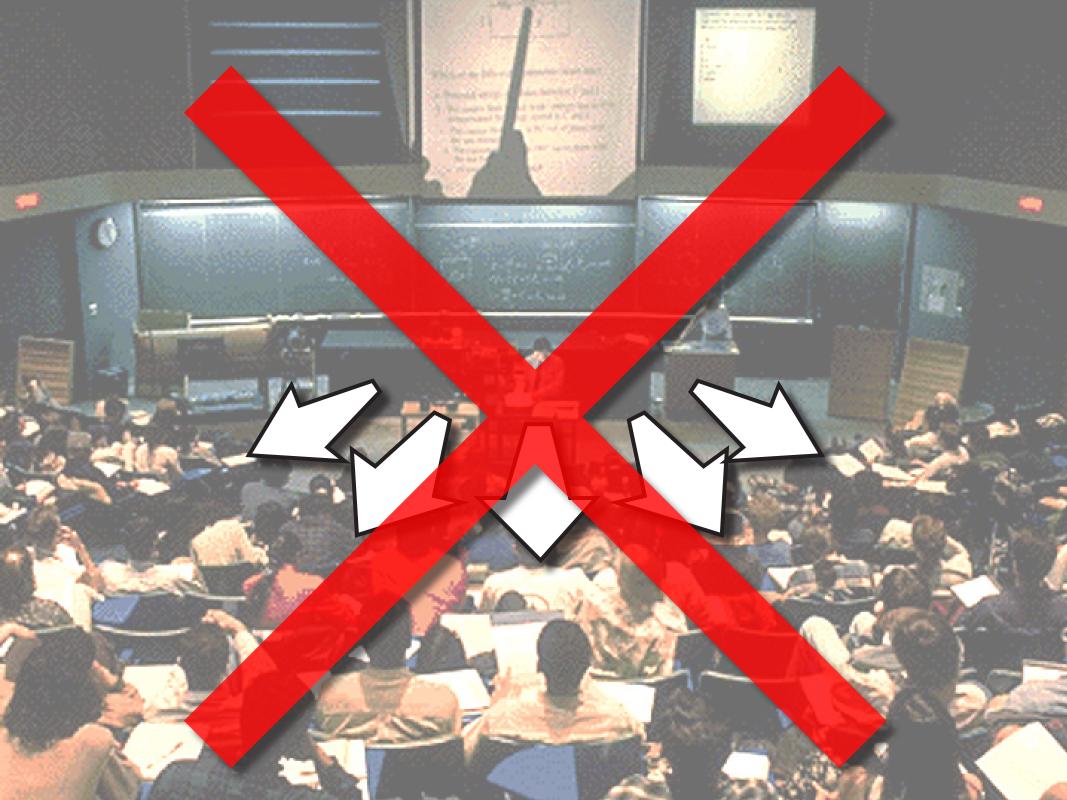


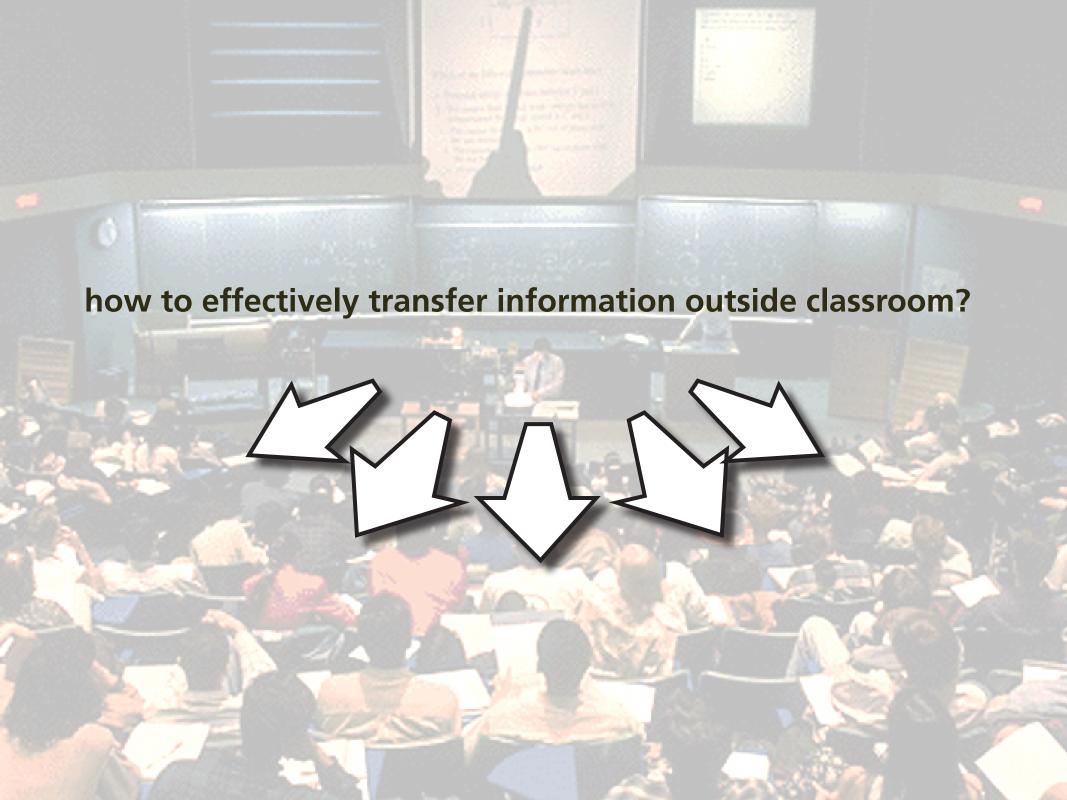
Higher learning gains





Higher learning gains Better retention









transfer pace set by video

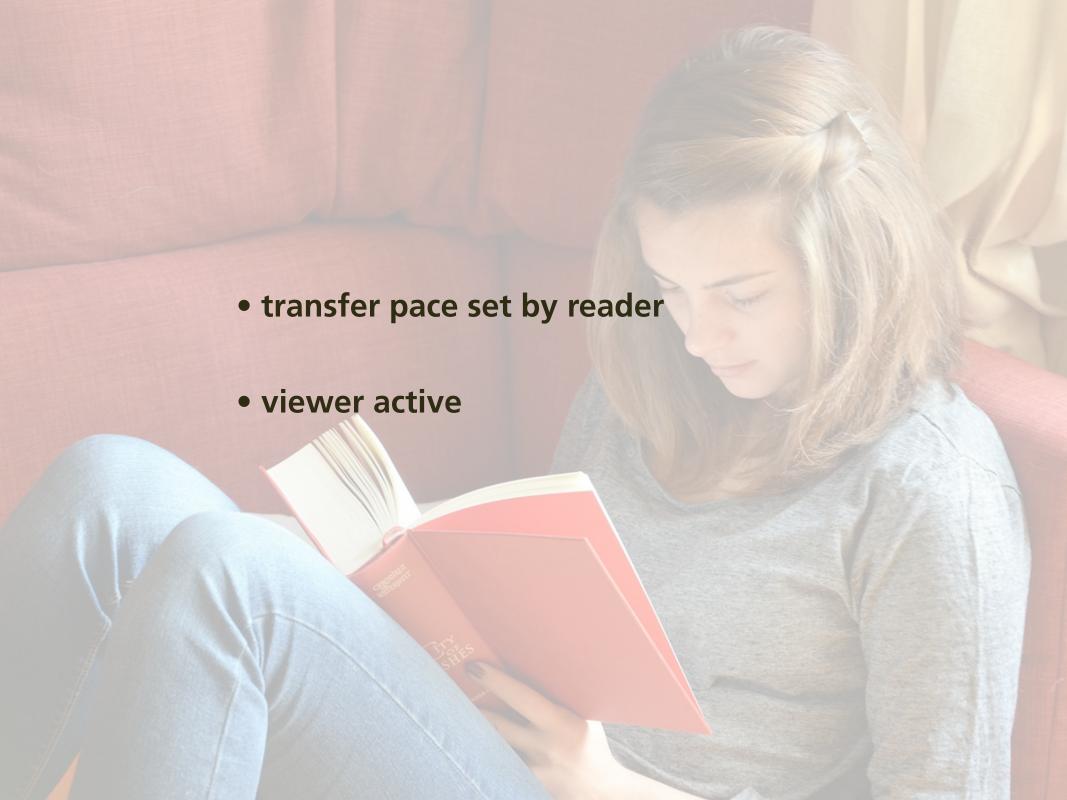
viewer passive

viewing/attention tanks as time passes

• isolated/individual experience

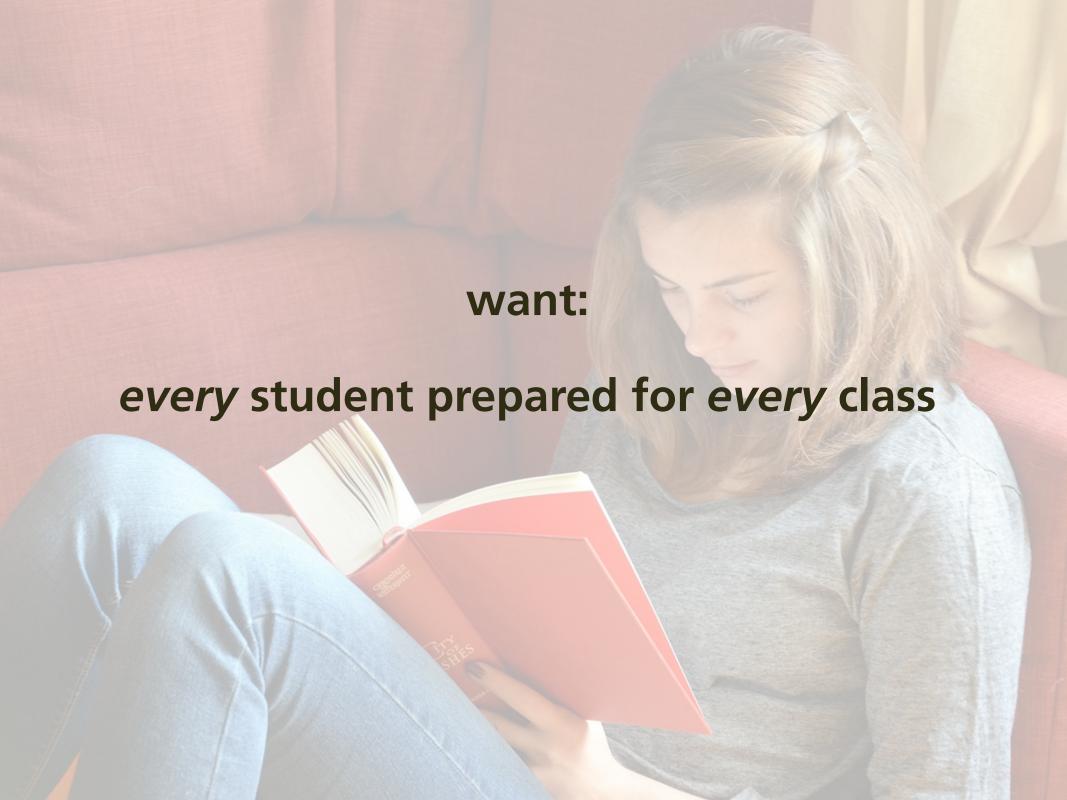


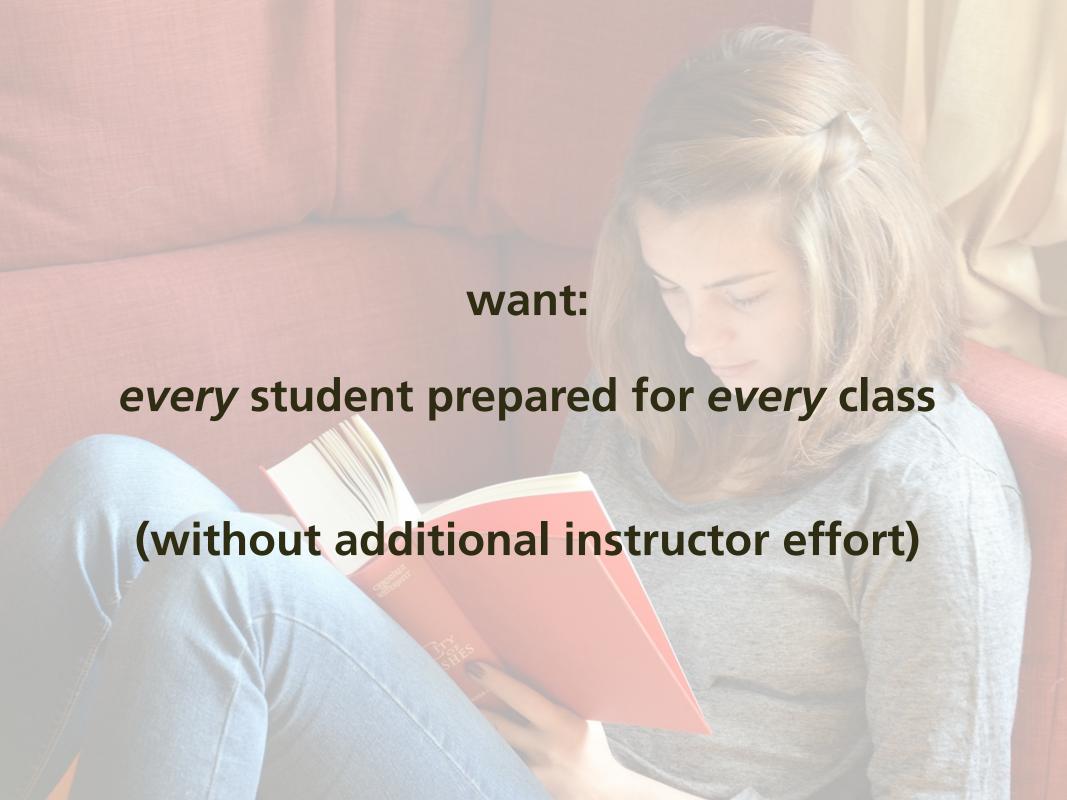






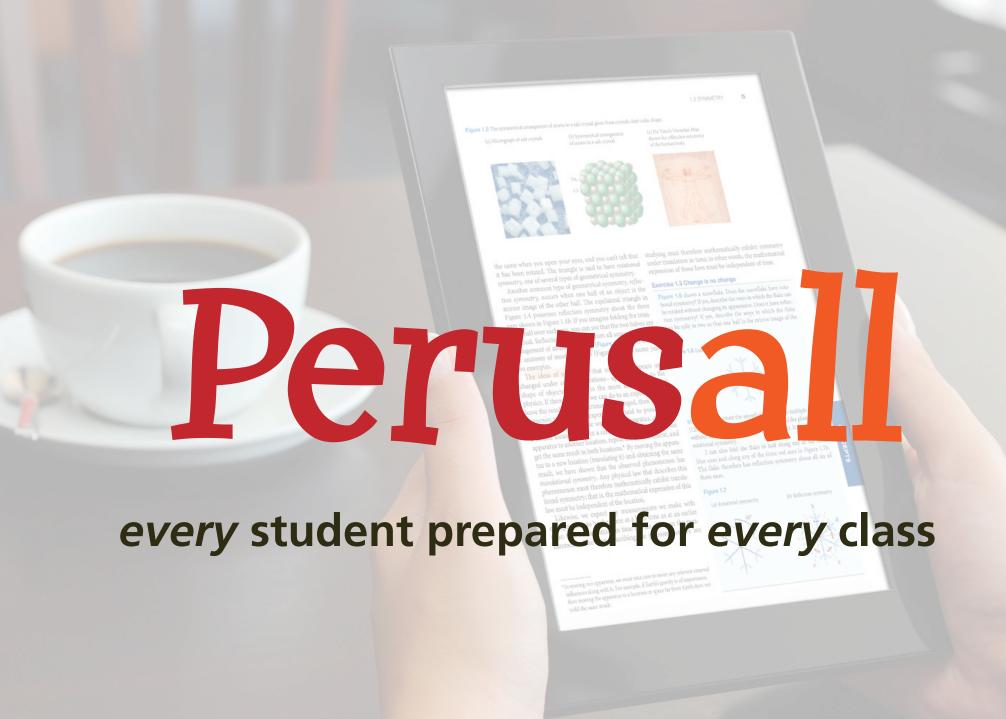


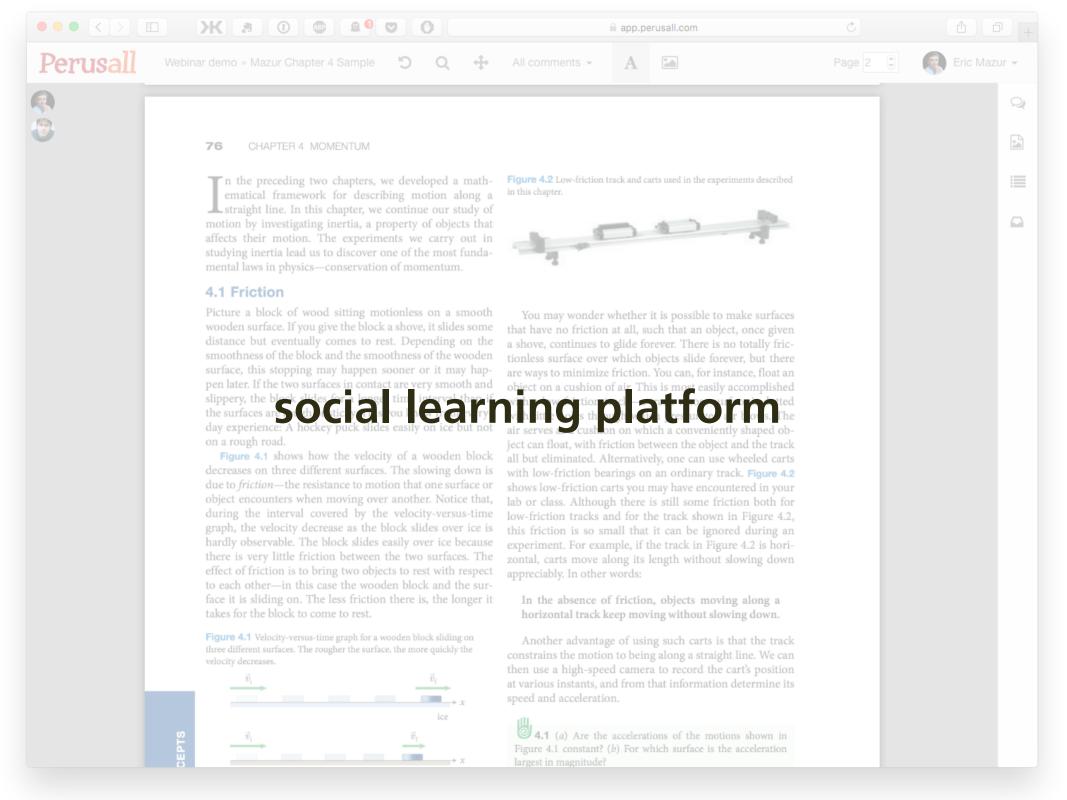




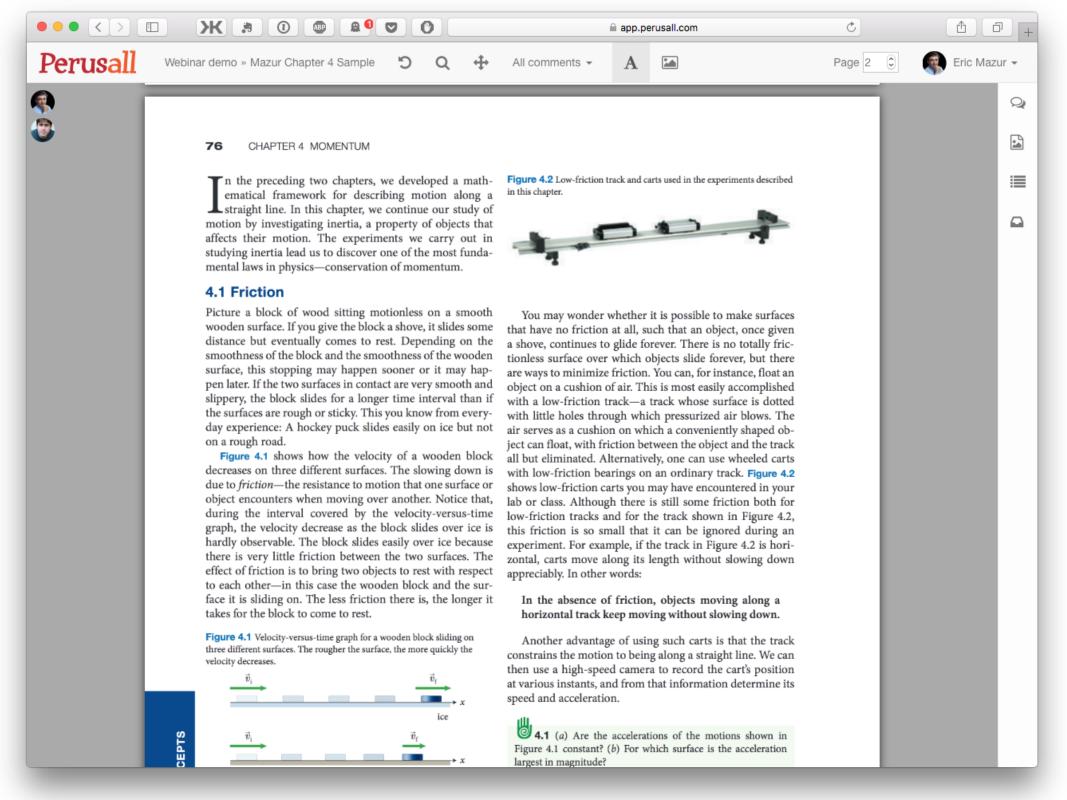
Solution

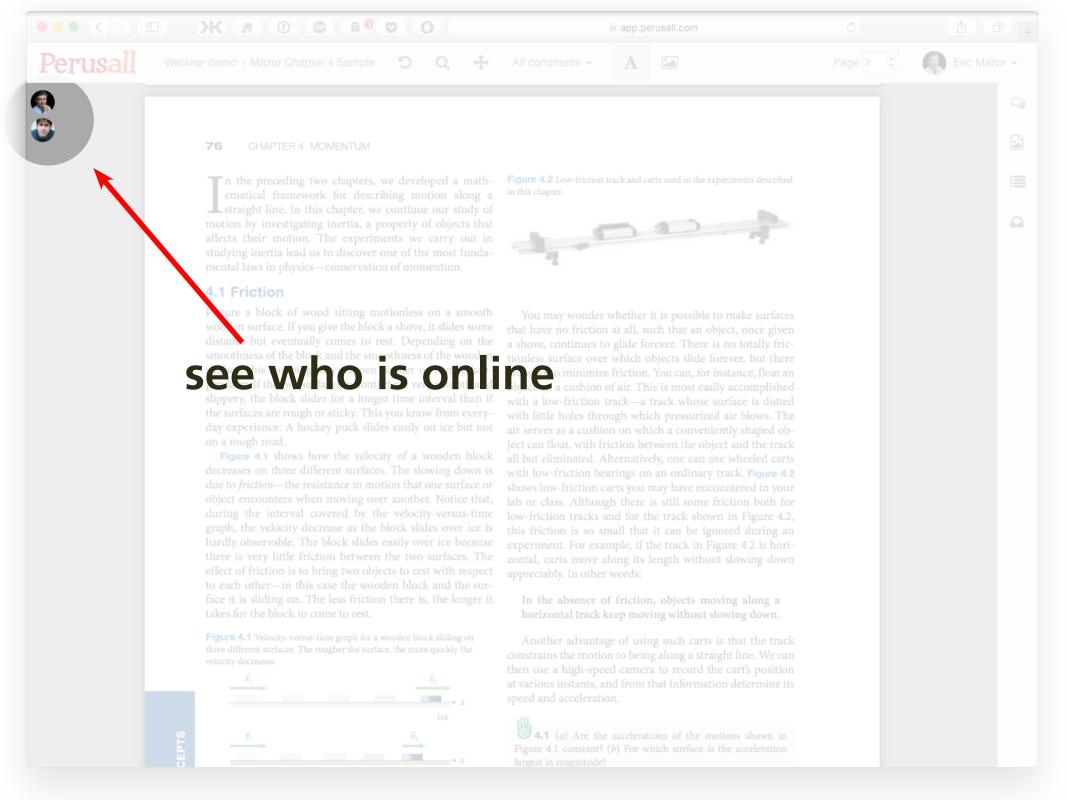
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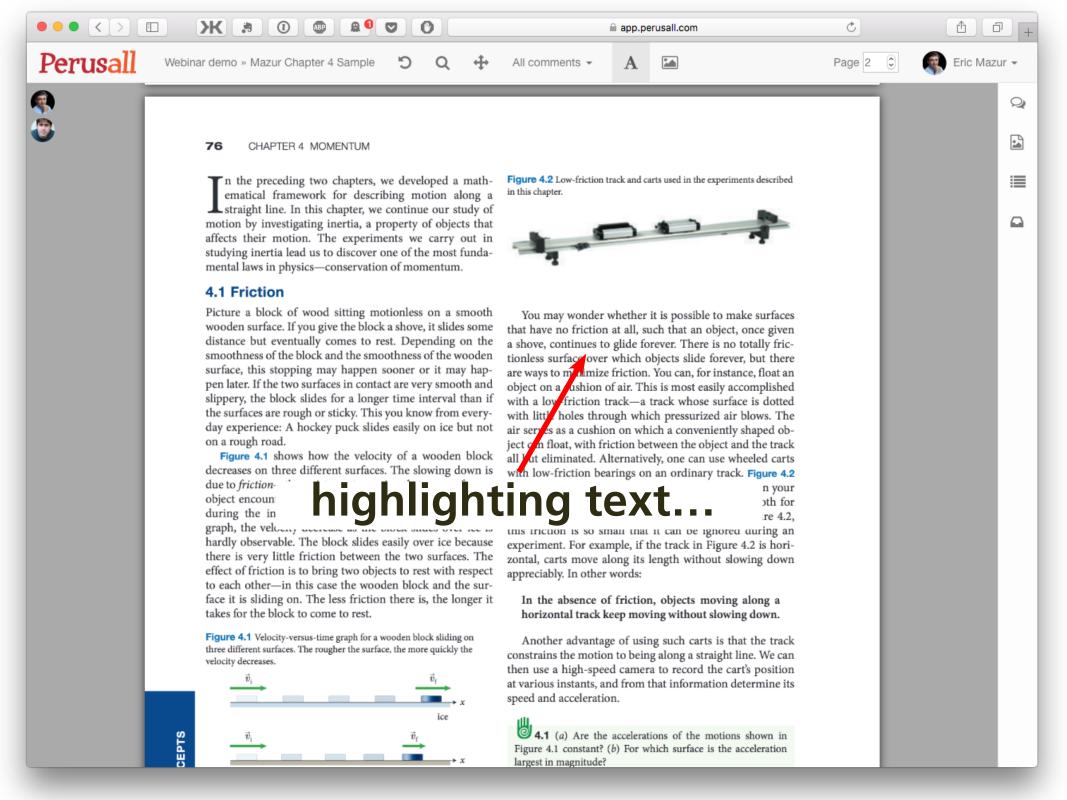


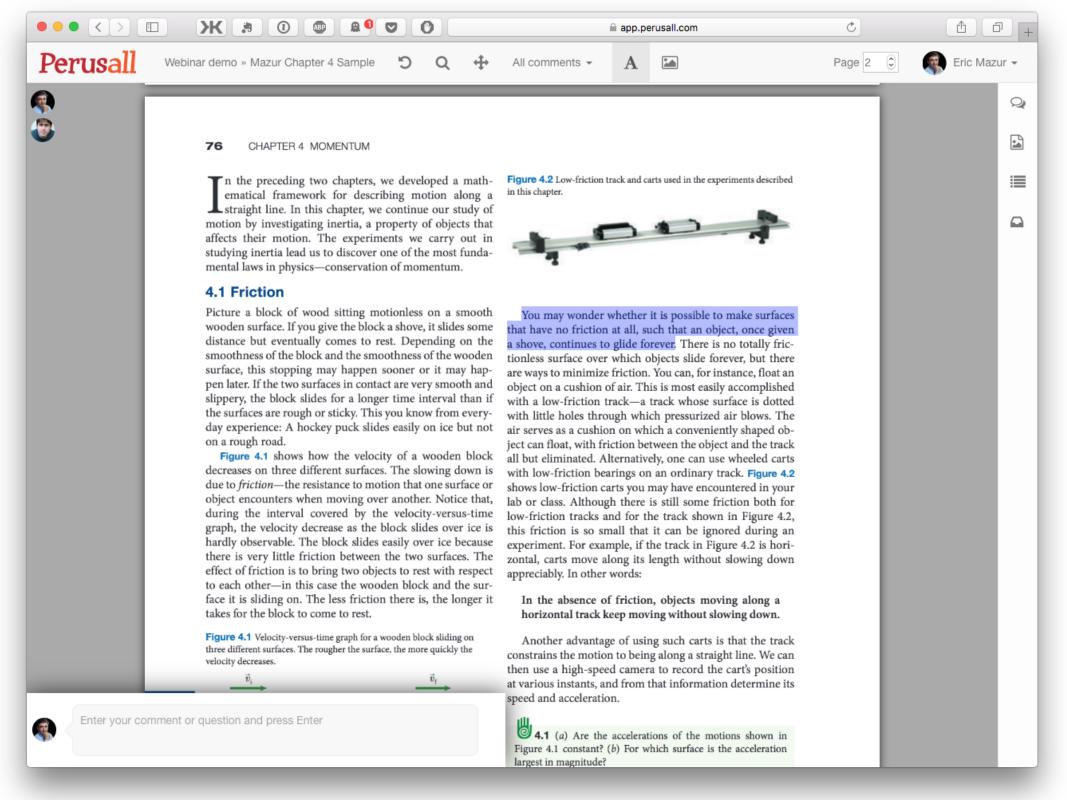


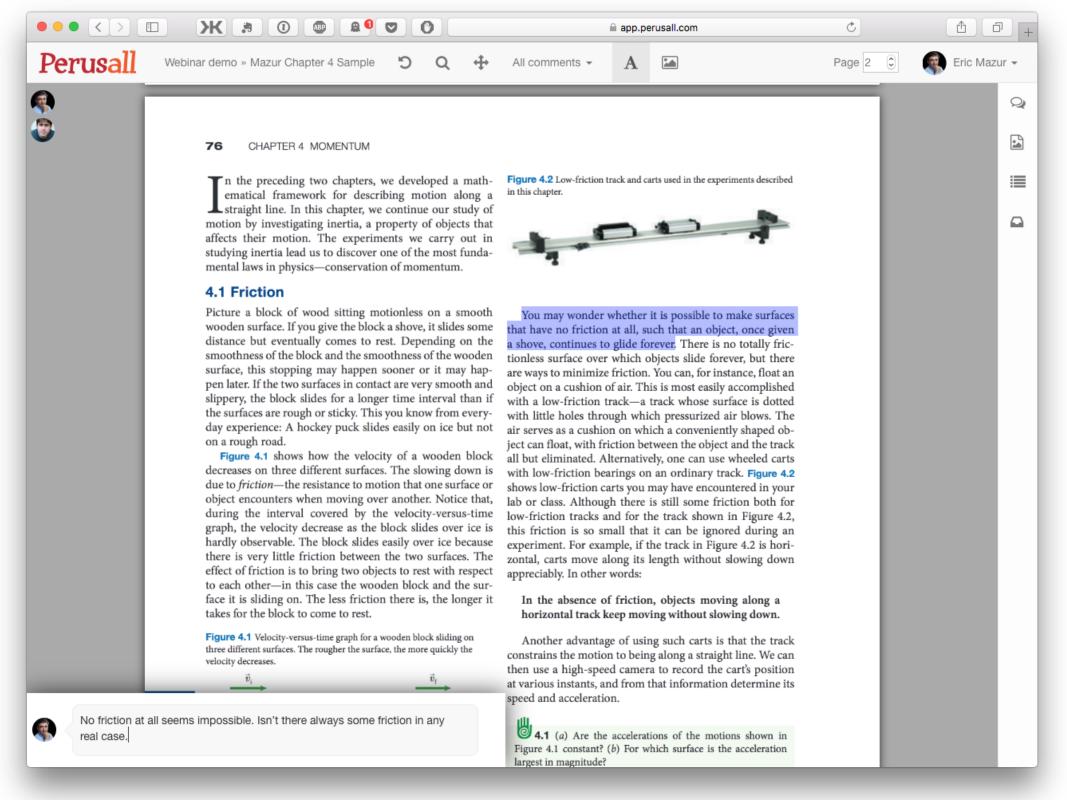


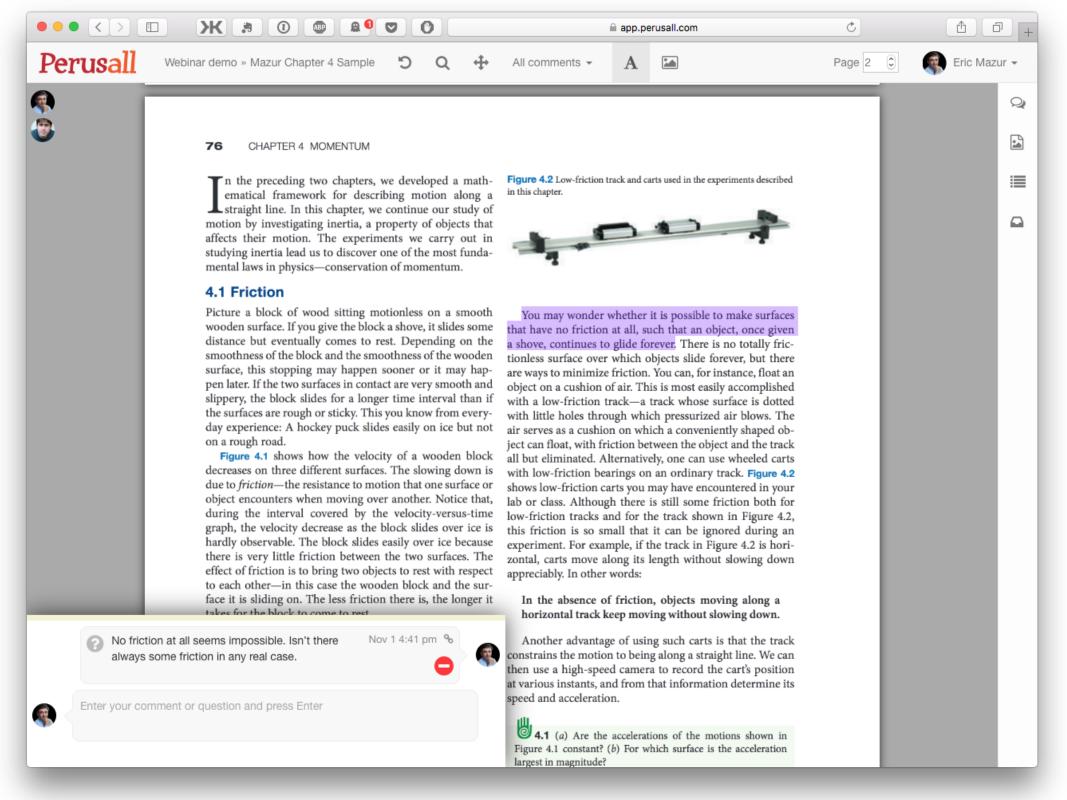


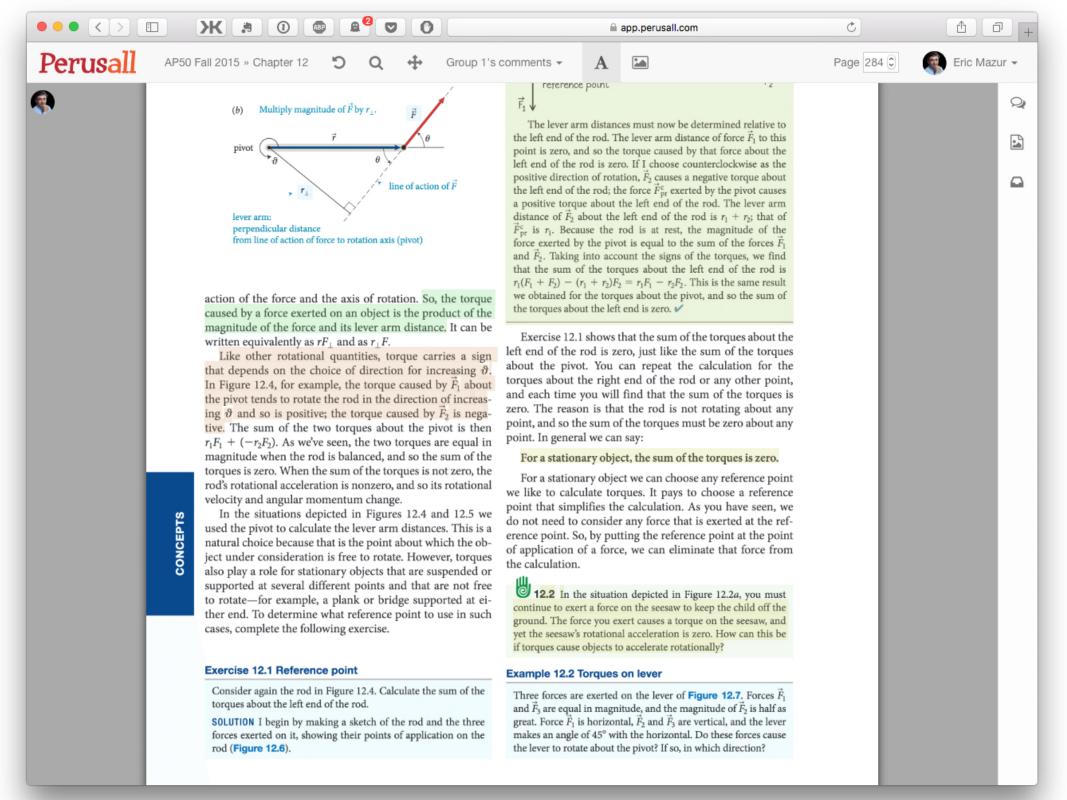


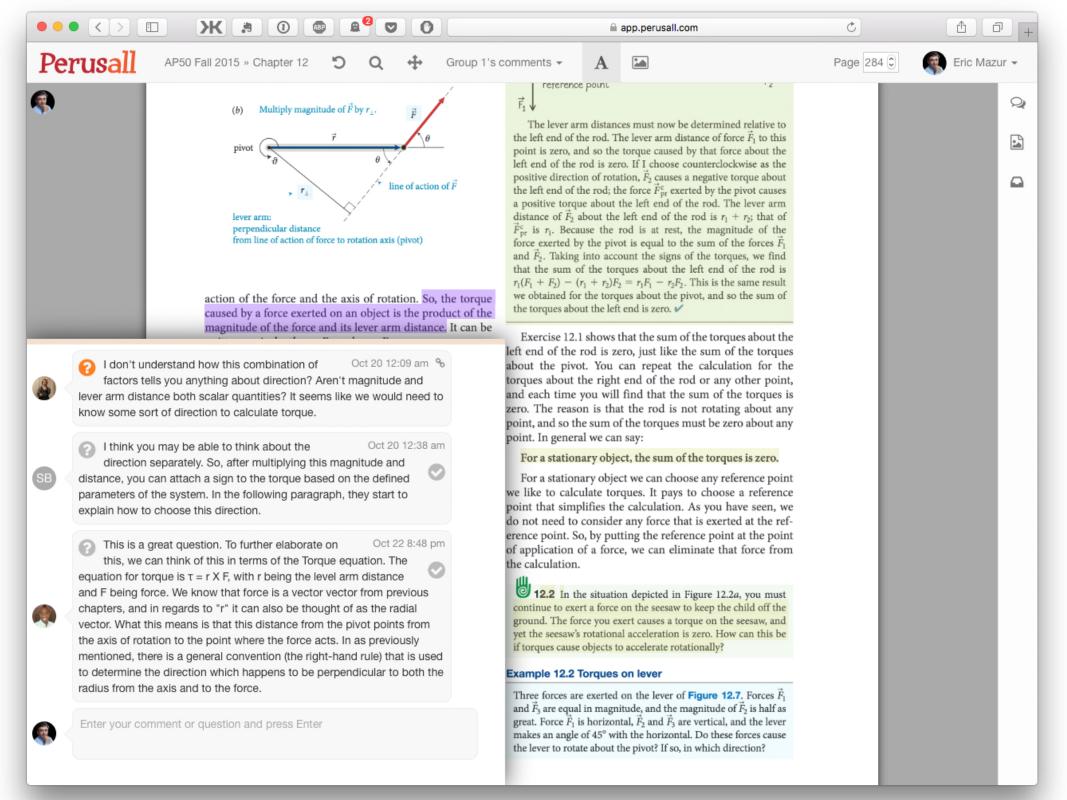


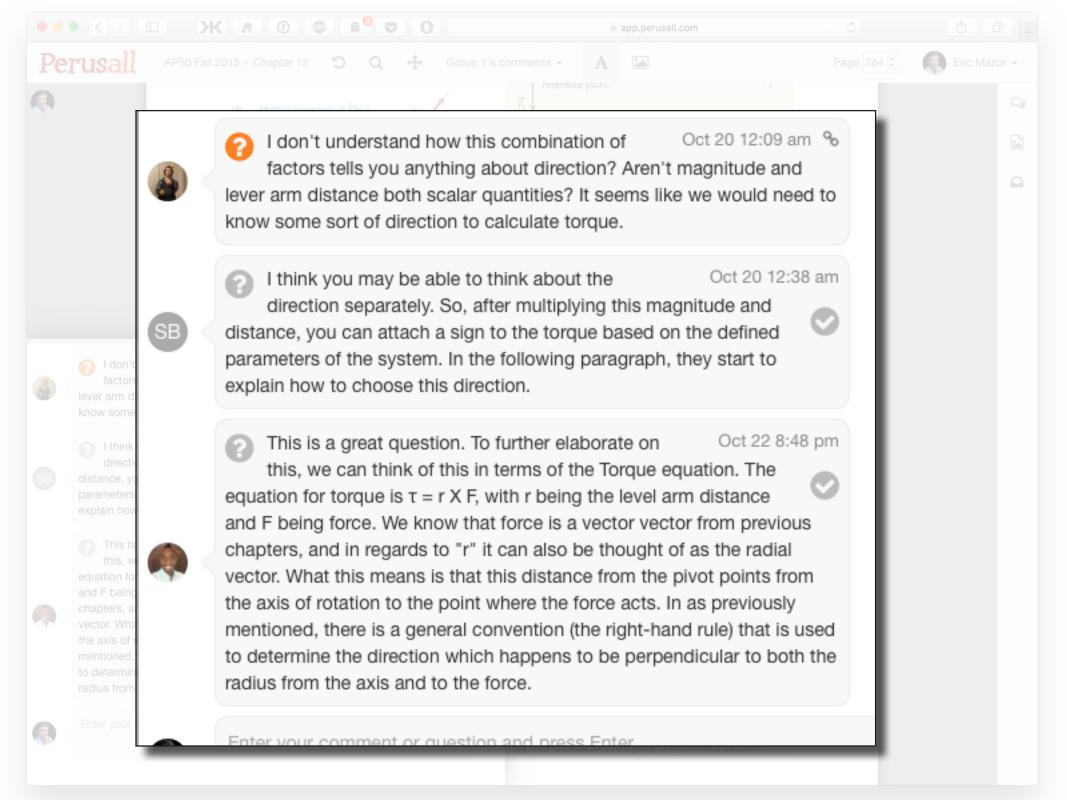


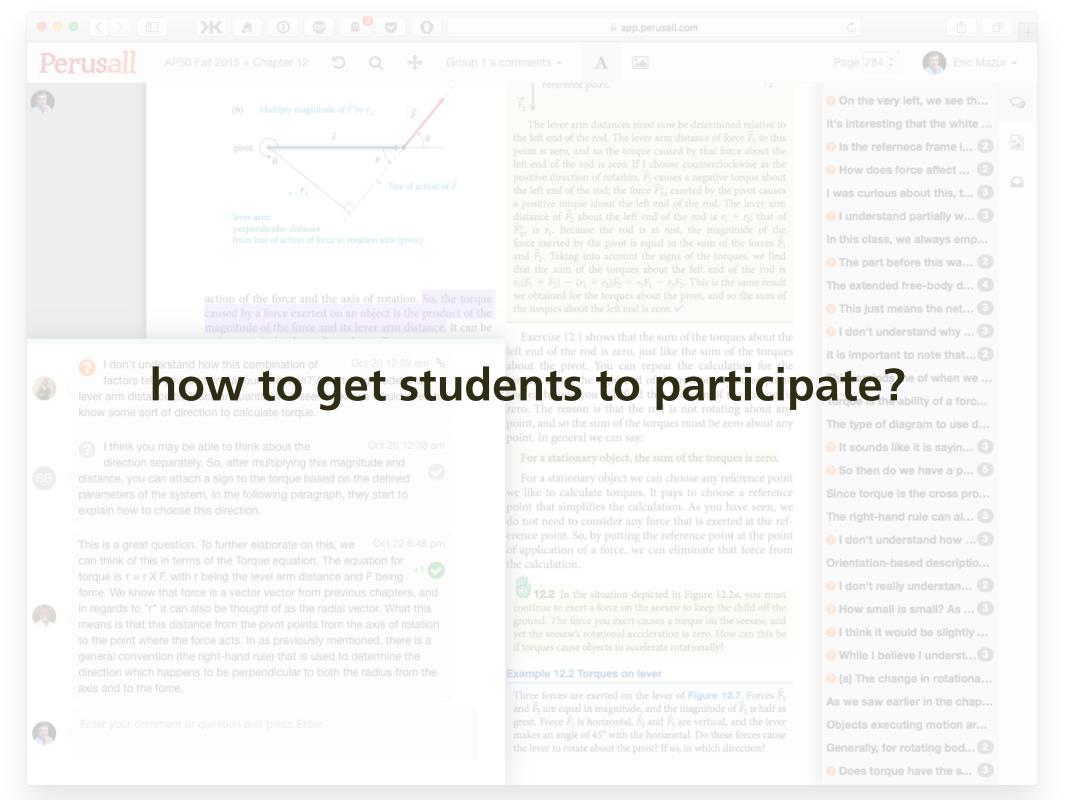


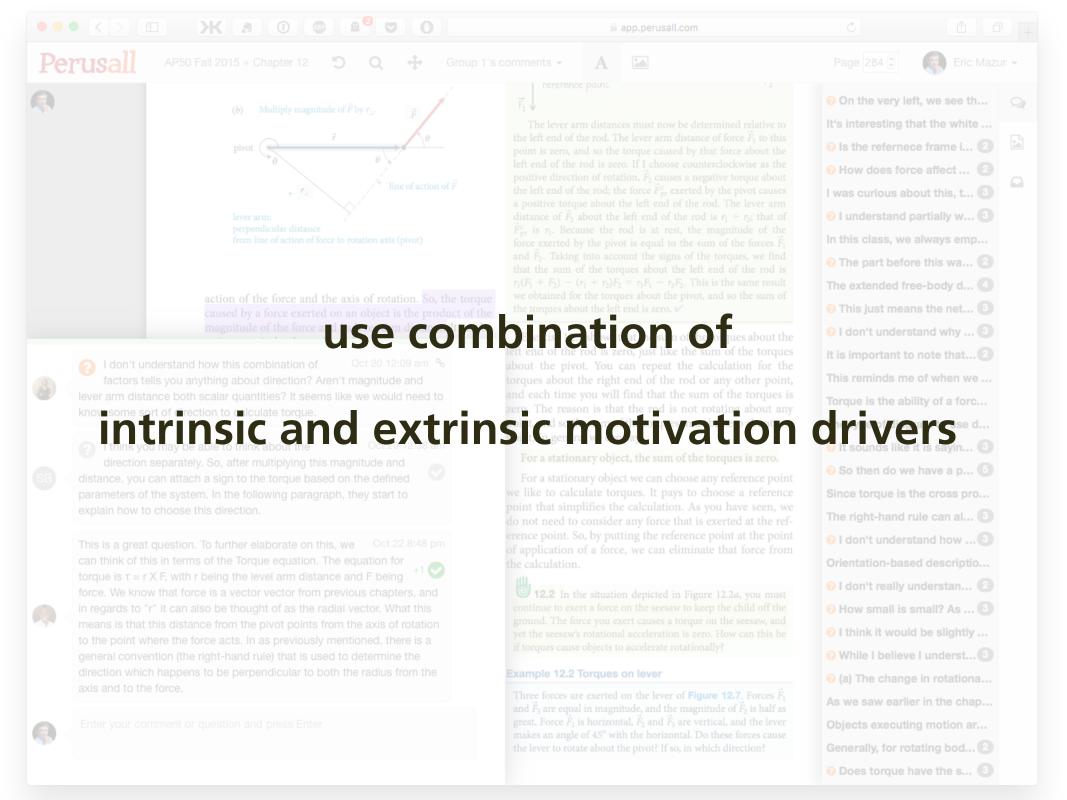








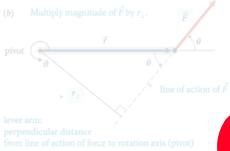




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rubric-based assessment





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Enter your comment or question and press Enter

The lever arm distances must now be determined relative the left end of the rod. The lever arm distance \tilde{F}_1 point is zero, and so the torque cause of force about left end of the rod is zero. If I chood must lockwise positive decrease of rotation, \tilde{F}_2 cause to gas a squeethe left of the rod; the force \tilde{F}_p^e by the cause of the left end of the rod of the rod

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the rod is zero, just lib the sum of the torques about the torques about the rod is zero, just lib the sum of the torques about the right end of the calculation for the torques about the right end of the cor any other cast, and each time you was at that the sum of the zero. The reason is the cord is not rotating but point, and so the sum of the roles to be zero but to point. In general we can

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2.2 In the situation depicted in Figure 12.2a, you must continue to exert a force on the seesaw to keep the child off the ground. The force you exert causes a torque on the seesaw, and yet the seesaw's rotational acceleration is zero. How can this be if torques cause objects to accelerate rotationally?

Example 12.2 Torques on lever

Three forces are exerted on the lever of **Figure 12.7**. Forces \vec{F}_1 and \vec{F}_2 are equal in magnitude, and the magnitude of \vec{F}_2 is half as great. Force \vec{F}_1 is horizontal, \vec{F}_2 and \vec{F}_3 are vertical, and the lever makes an angle of 45° with the horizontal. Do these forces cause the lever to rotate about the pivot? If so, in which direction?

Page 284 0



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Orientation-based descriptio...

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As we saw earlier in the chap...

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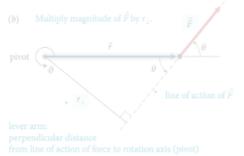
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rubric-based assessment





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direction separately. Sold the torque based on the defined parameters of the system. In the following paragraph, they explain how to choose this direction.

This is a great question to further the force acts. In as previously mentioned, there is a general convention (the right-hand rule) that is used to determine the direction which happens to be perpendicular to both the radius from the axis and to the force.

Enter your comment or question and press Enter

Exercise 12.1 shows that the sum of the torques about the left problem of its zero, just like this sum of the torque of the torque of the torque of the sum of the torque of the to

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Page 284 3



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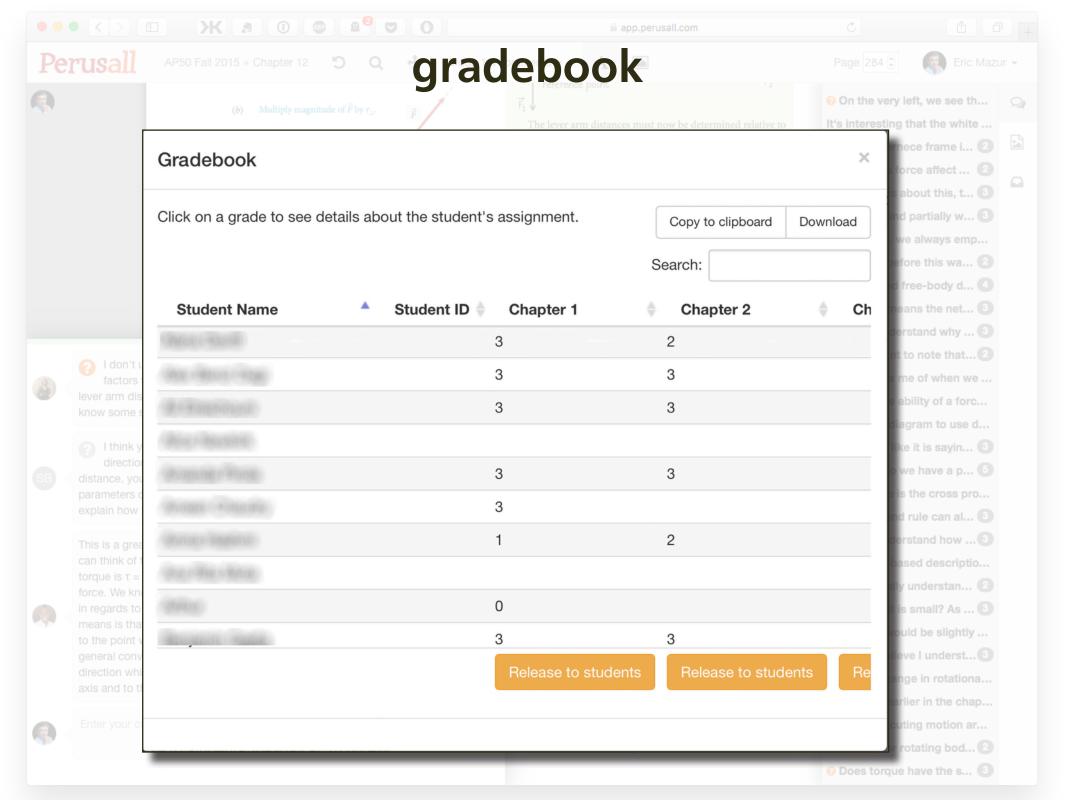
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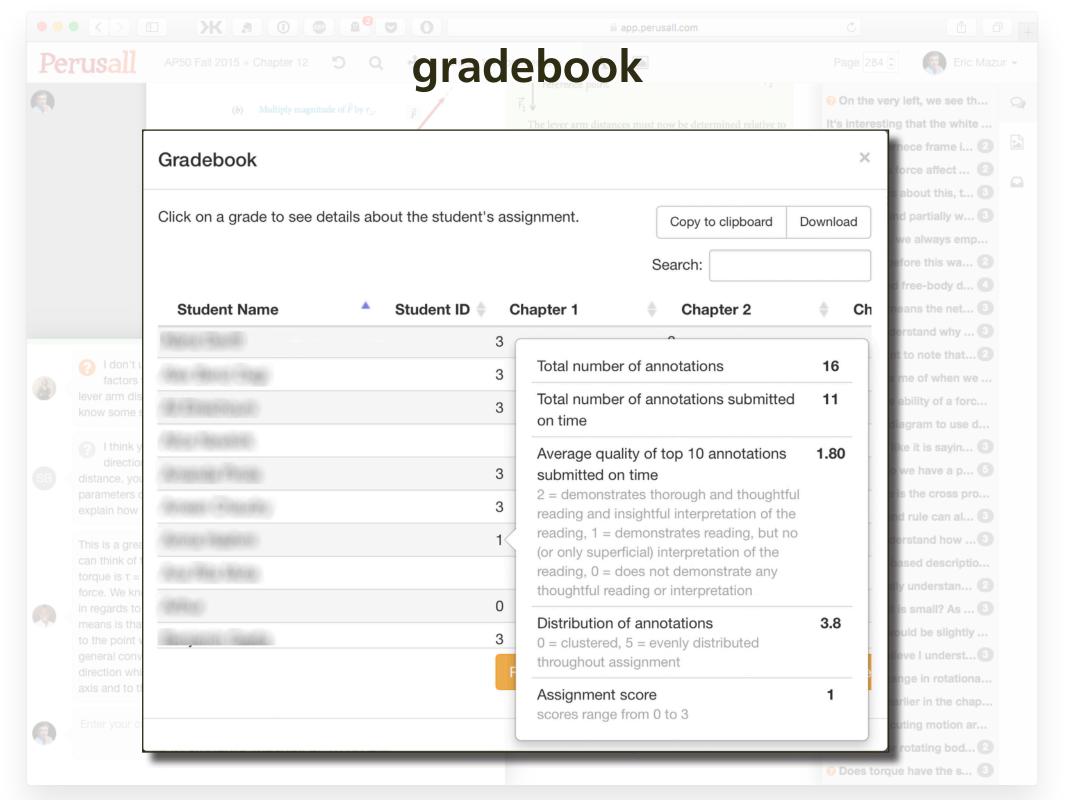
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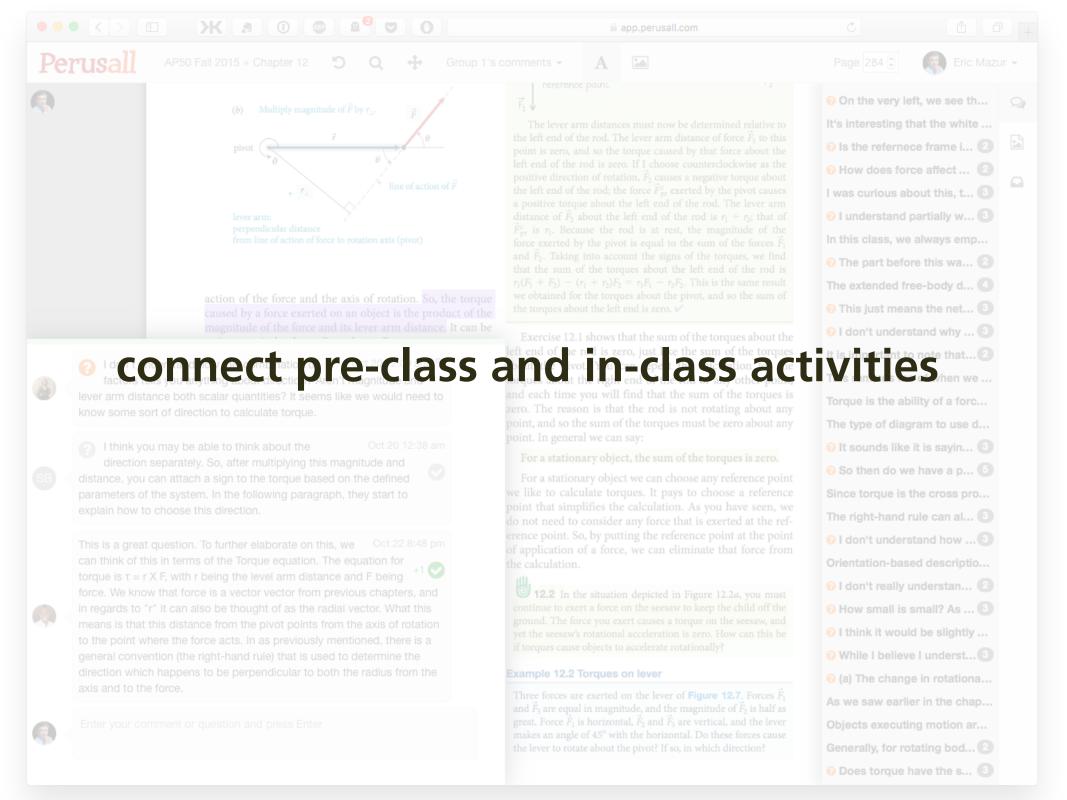
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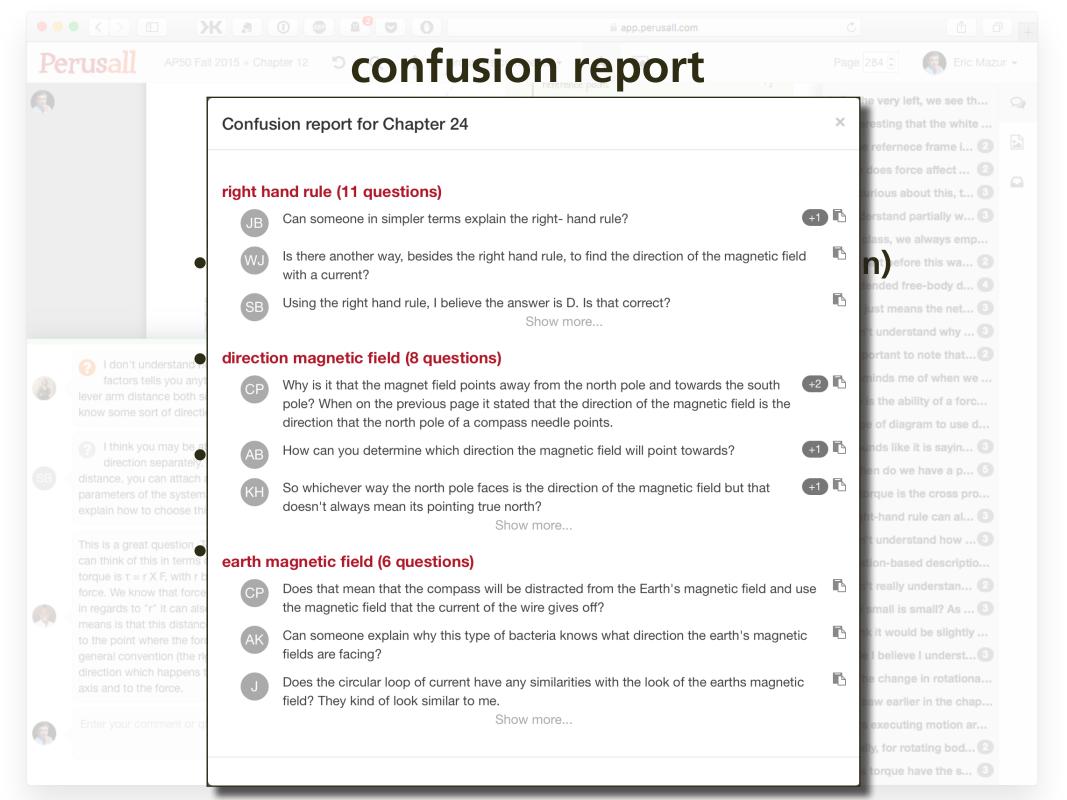
Objects executing motion ar...

Generally, for rotating bod... 🞱









motivating factors



• social interaction at the sum of the torques about the left end of the rod is





On the very left, we see th...



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So then do we have a p...

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• social interaction at the sum of the torques about the left end of the rod is

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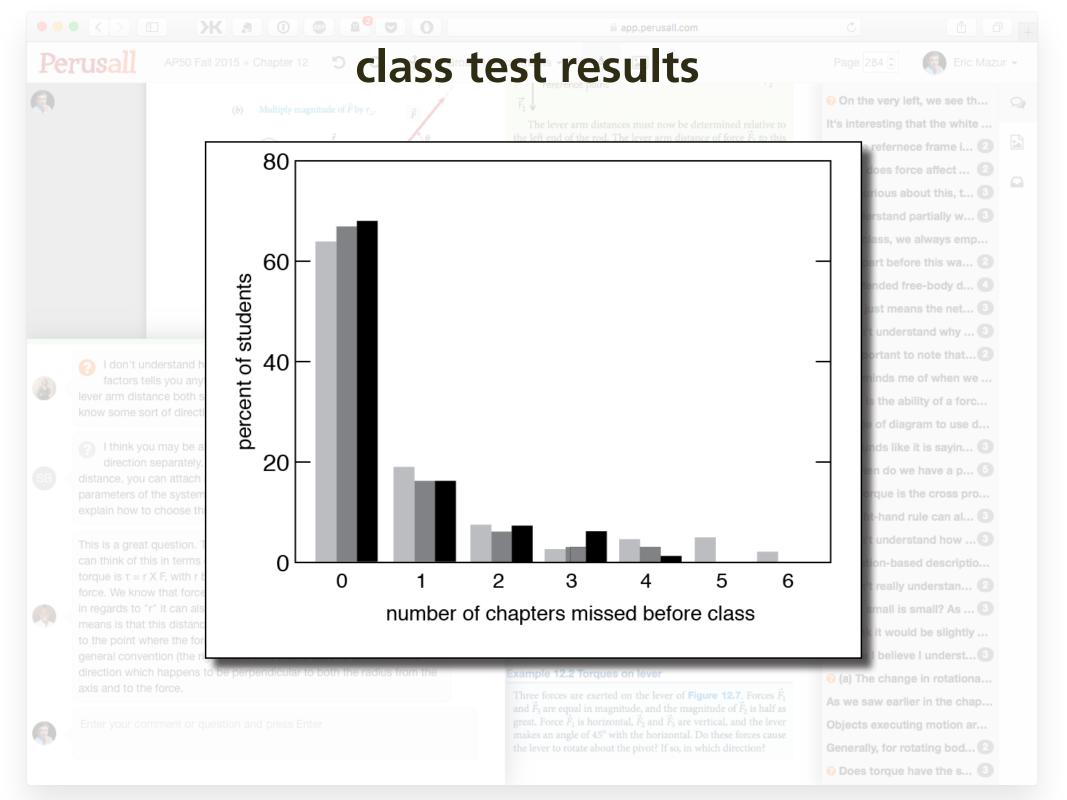


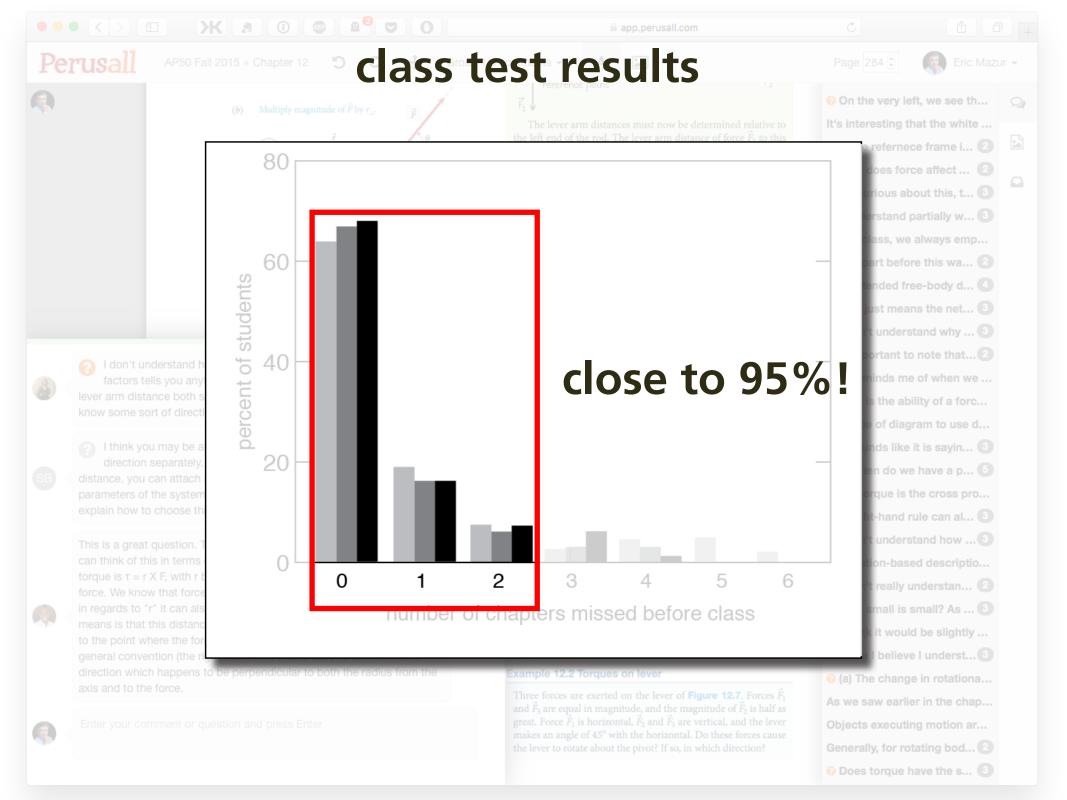






Objects executing motion ar...

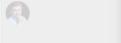




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class test results







every student prepared for every class





On the very left, we see th...

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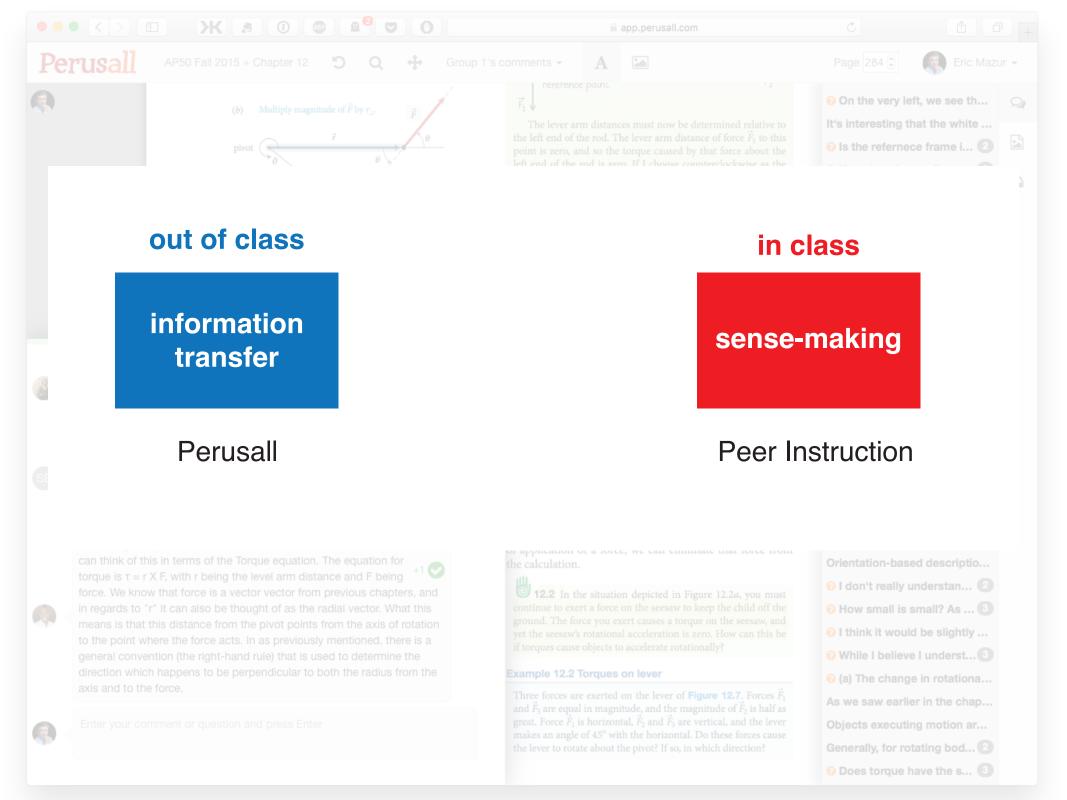
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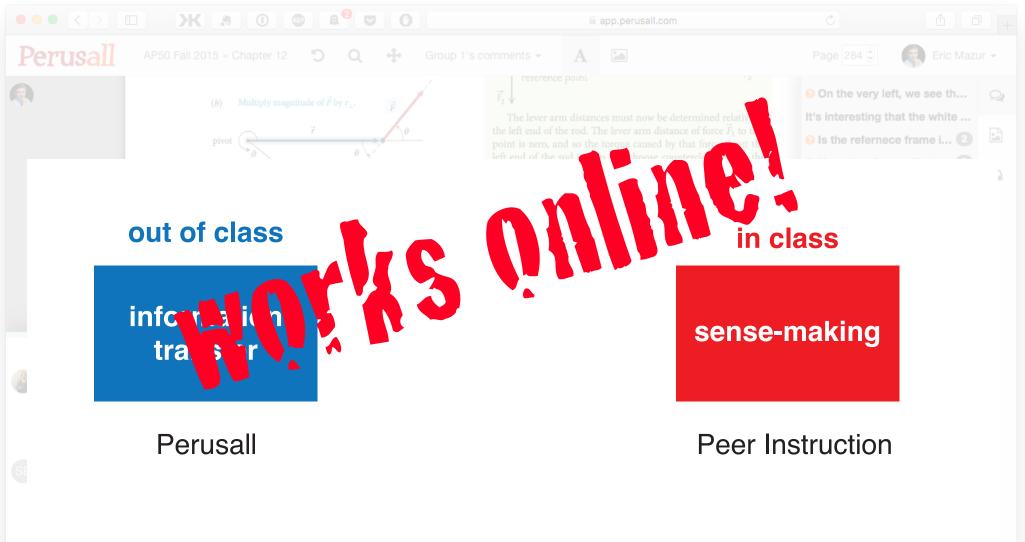
The right-hand rule can al...

How small is small? As ...

(a) The change in rotationa...







can think of this in terms of the Torque equation. The equation for torque is $\tau = r \times F$, with r being the level arm distance and F being force. We know that force is a vector vector from previous chapters, and in regards to "r" it can also be thought of as the radial vector. What this means is that this distance from the pivot points from the axis of rotation to the point where the force acts. In as previously mentioned, there is a general convention (the right-hand rule) that is used to determine the direction which happens to be perpendicular to both the radius from the axis and to the force.

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Orientation-based descriptio...

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Education is not just about:

- transferring information
- getting students to do what we do

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- getting students to do what we do

active engagement/social interaction a must!



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eric_mazur