





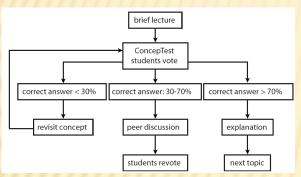
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WHEN TALKING IS BETTER THAN STAYING QUIET

N Lasry^{1,3,4}, E Charles², C Whittaker², M Lautman¹

Peer Instruction



Why Does it work?

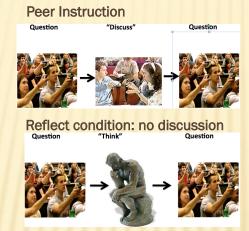


Peer discussions!

But how do we know? What if only:

- more reflection?
- more time on task?
- The testing effect?

Study Design



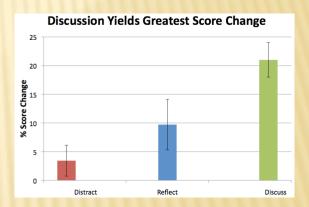
Distract condition: no discussion



Same set of 9 ConcepTests given in 1st week of a mechanics course in three different groups. Group 3 was peer instruction, groups 1 and 2 had ½ of the ConceptTests presented with instructions to 'think about it for 1 minute' and then revote. The other ½ of the questions, students were distracted for 1 minute and then asked to revote.

	Group 1	Group 2	Group 3
Distract	1 st 1/2	2 nd 1/2	Х
Reflect	2 nd 1/2	1 st 1/2	Х
Discuss	Х	Х	100%

Results



Conclusion

- 1- All conditions show non-zero gains: even distract condition (so probable testing effect)
- 2-Reflection and time on task contribute to in class learning
- 3- Maximal added value to peer-led discussions. Peer-discussions are the way to go!

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