



Peer instruction — Concept questions

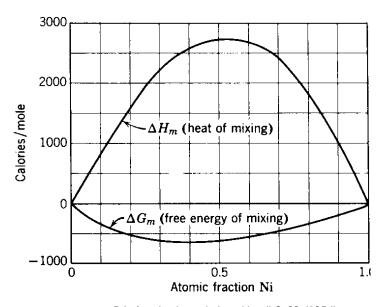
- 1. Instructor presents multiple-choice concept question
- 2. Students vote, individually, on the correct answer
- 3. Students discuss the question in pairs or small groups
- 4. Students vote again on the correct answer
- 5. Instructor reveals correct answer and comments as necessary.



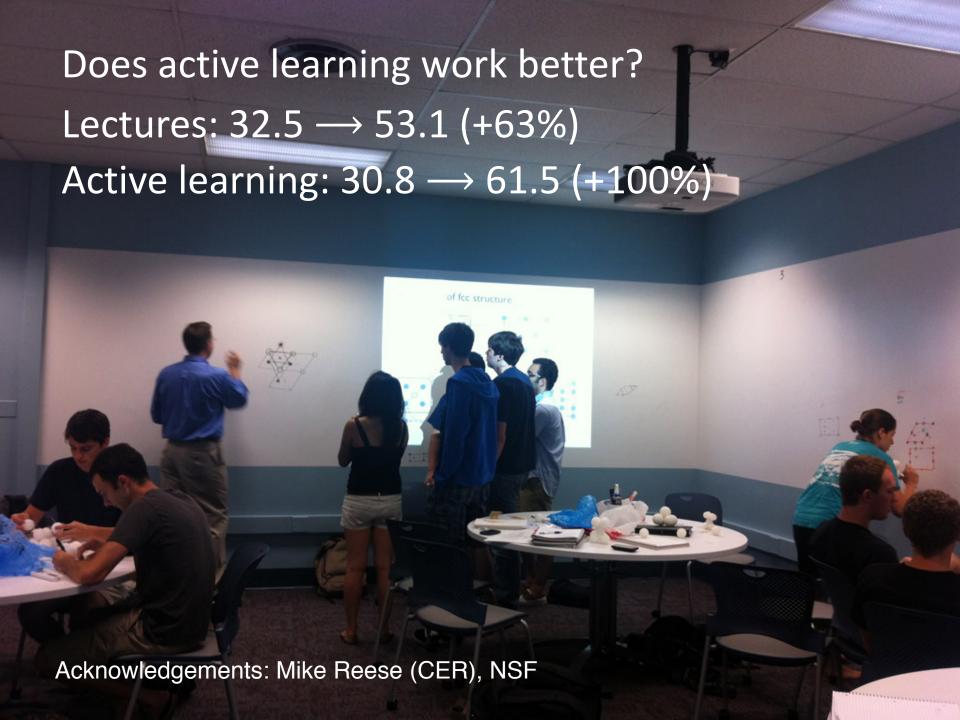
Peer instruction — Concept questions

The figure shows data for Au-Ni at 900 °C. At lower temperatures, an alloy of 50/50 composition will...

- (A) Remain a single phase solid solution at all temperatures
- (B) Phase separate into Aurich and Ni-rich solid solutions below some critical temperature
- (C) Form an ordered compound below some critical temperature
- (D) Not enough information to say for sure



B.L.Averbach et al., Acta Metall. 2, 92 (1954)



Peer instruction — pros

- 1. Students learn more
- 2. More effective feedback to instructor
- 3. More fun (at least for me)

Peer instruction — cons

- 1. Can be difficult to "cover the material"
- 2. Significant time commitment in the early stages (coming up with and evaluating concept questions)