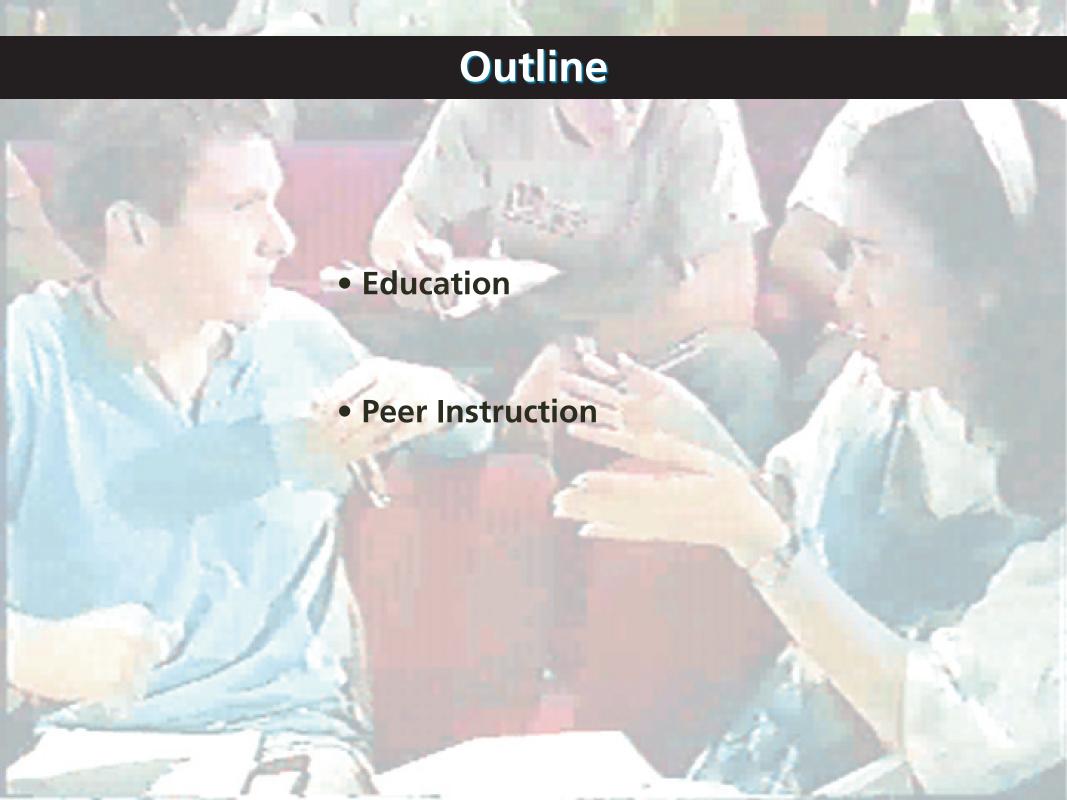
Confessions of a converted lecturer

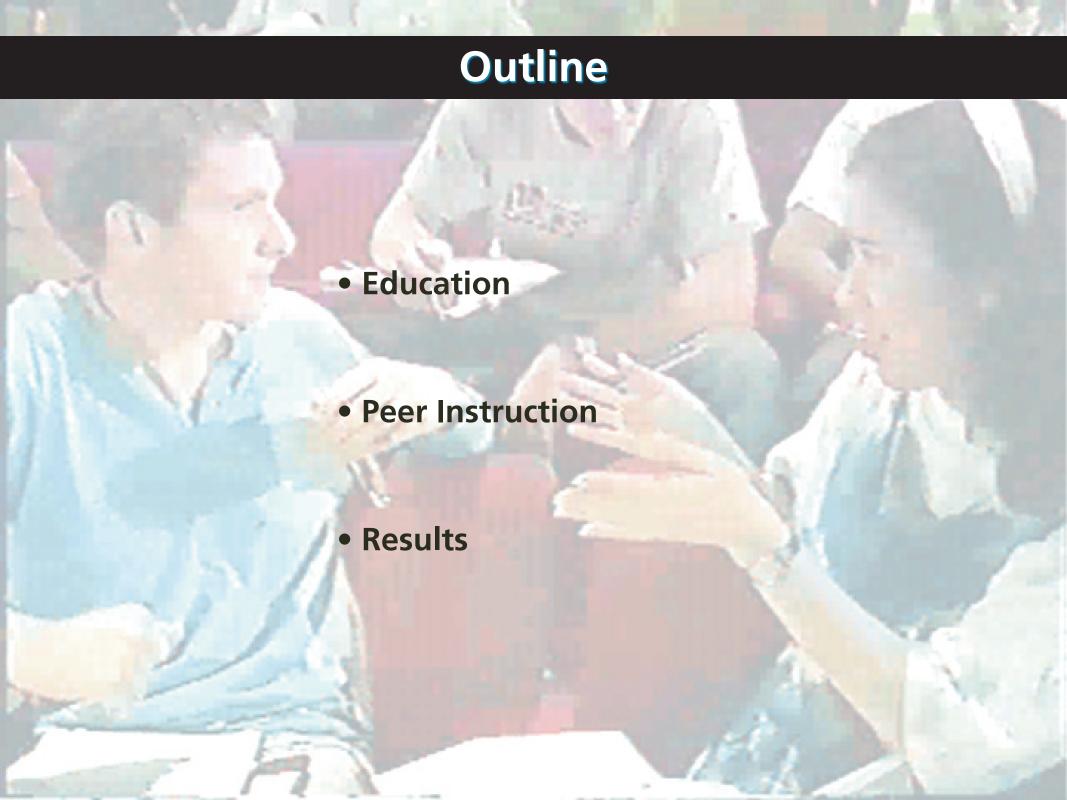


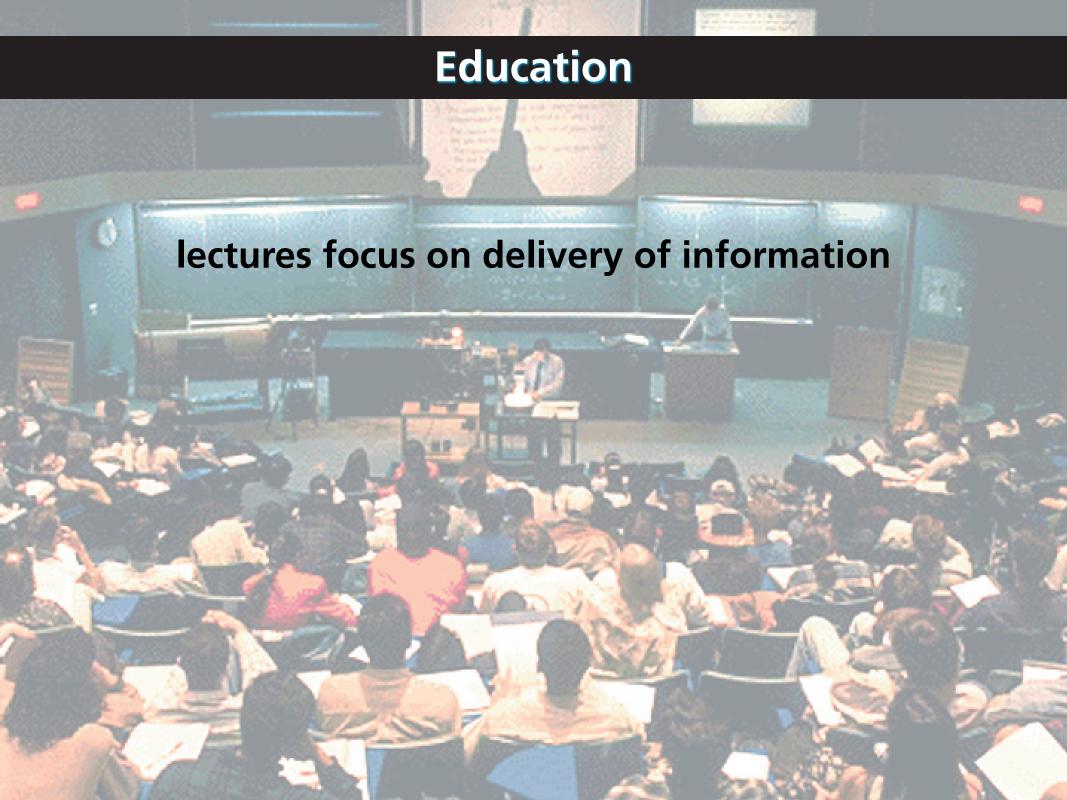




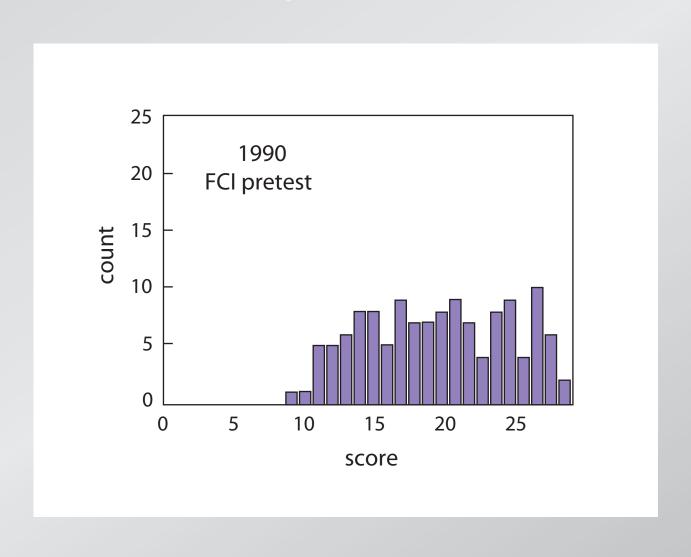
Outline Education



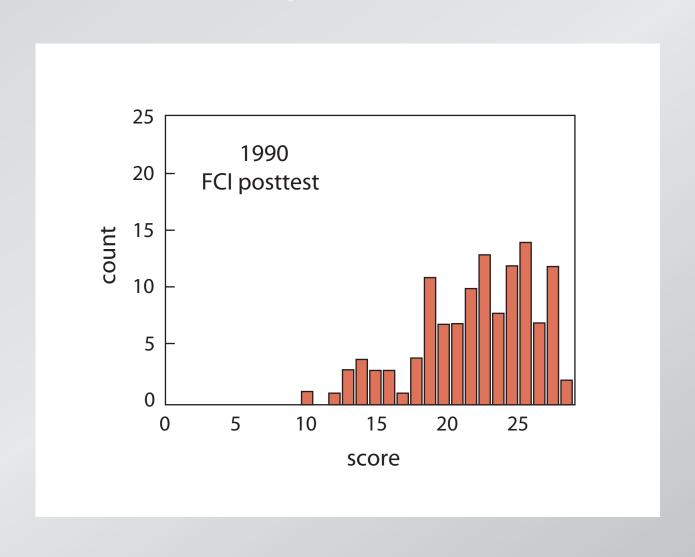




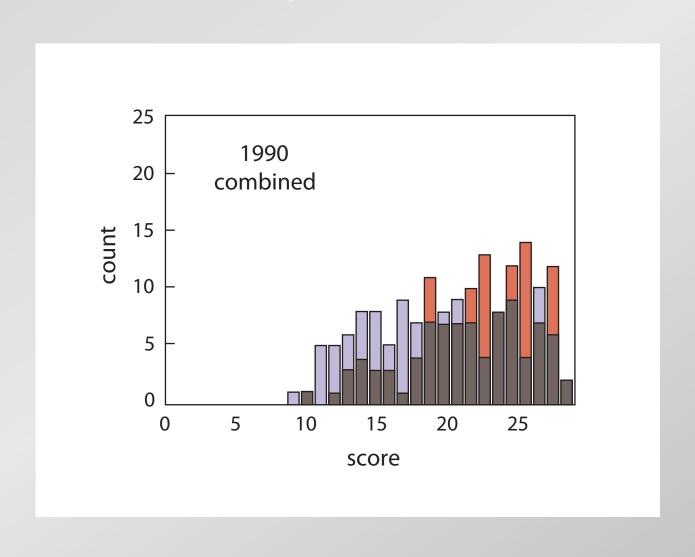
education is not just information transfer

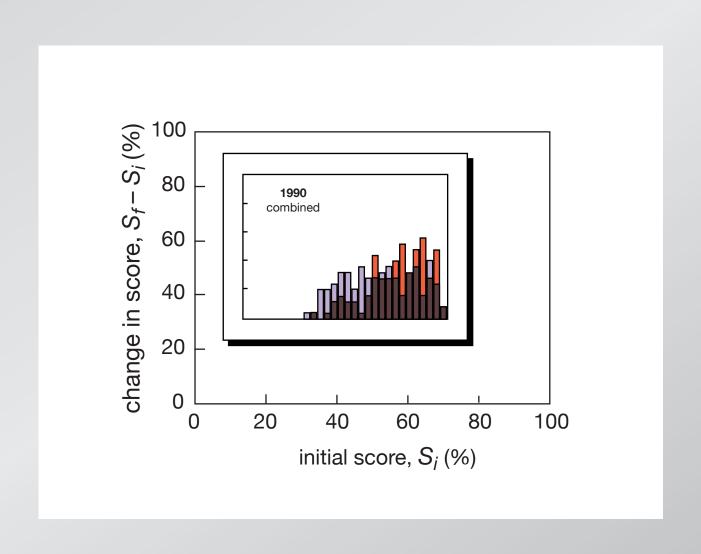


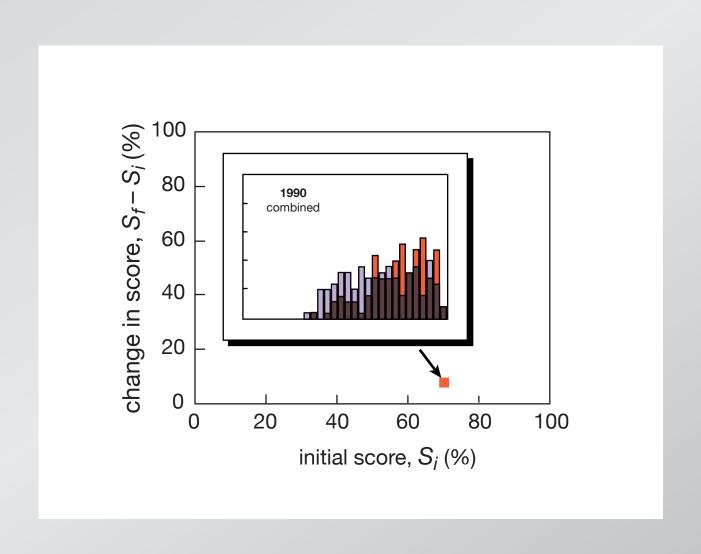
education is not just information transfer

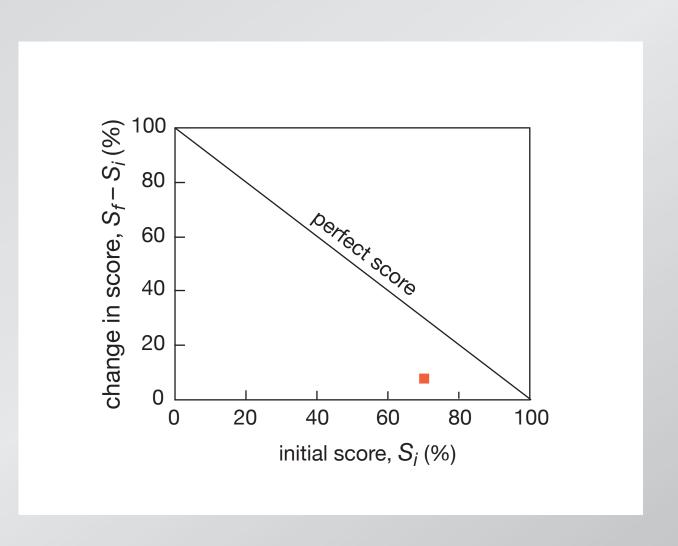


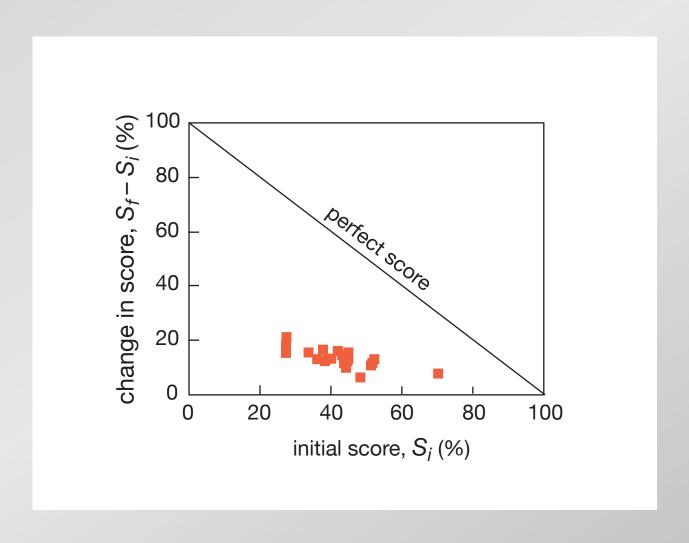
education is not just information transfer





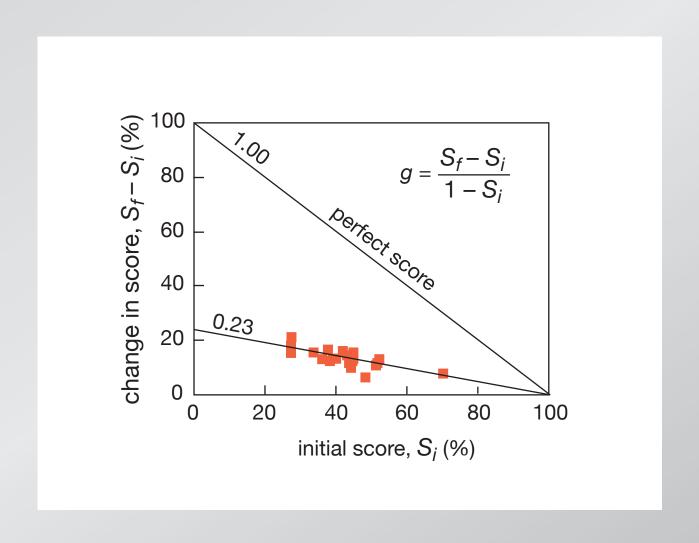


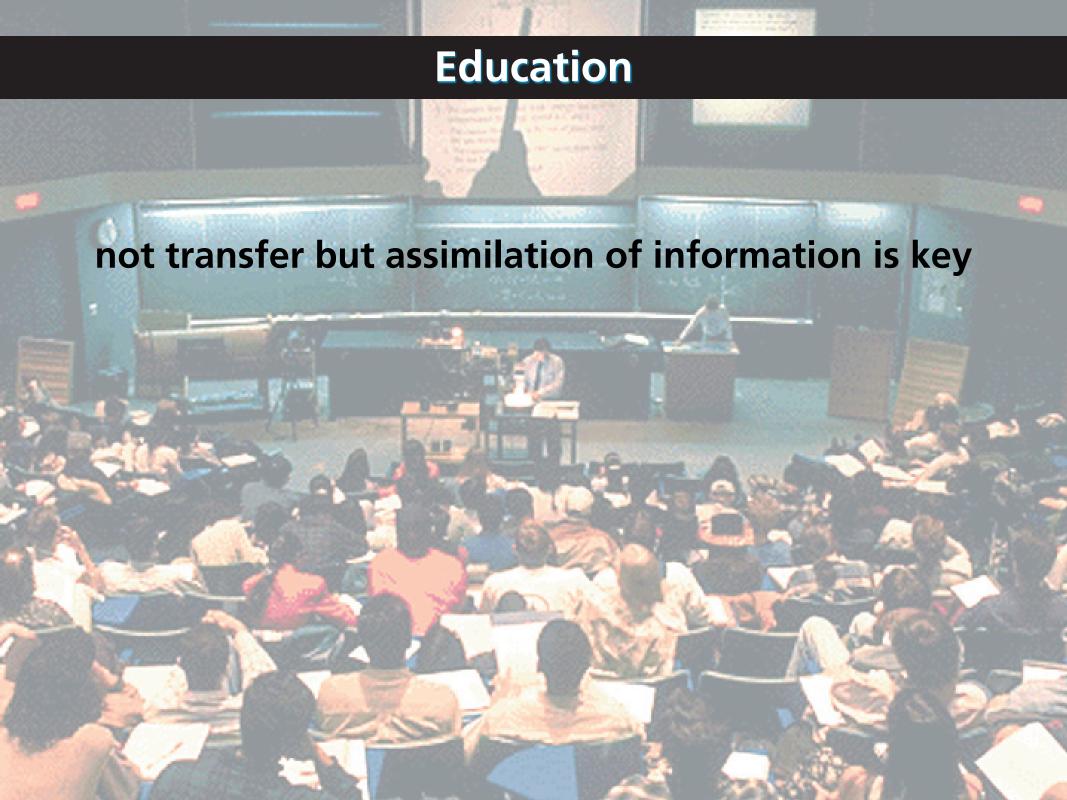




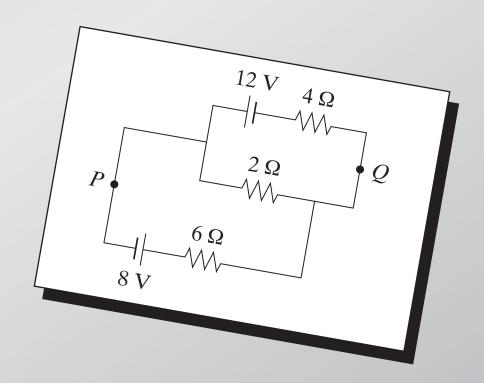
R.R. Hake, Am. J. Phys. 66, 64 (1998)

only one quarter of maximum gain realized





conventional problems misleading

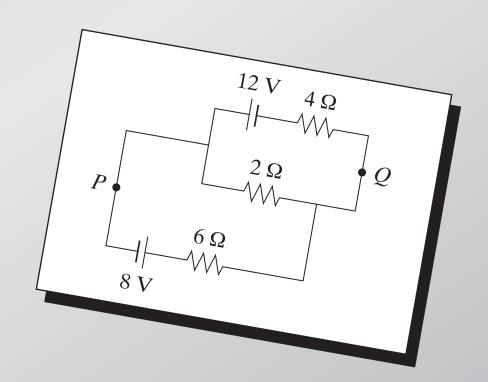


conventional problems misleading

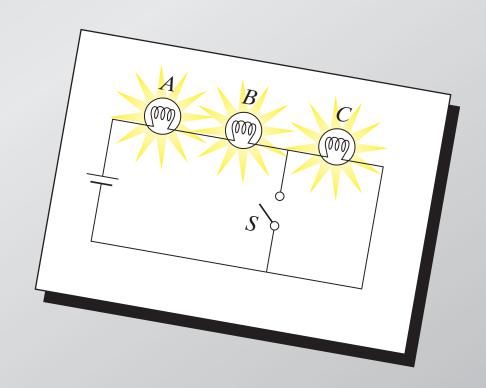
Calculate:

- (a) current in 2- Ω resistor
- (b) potential difference

between P and Q



are the basic principles understood?

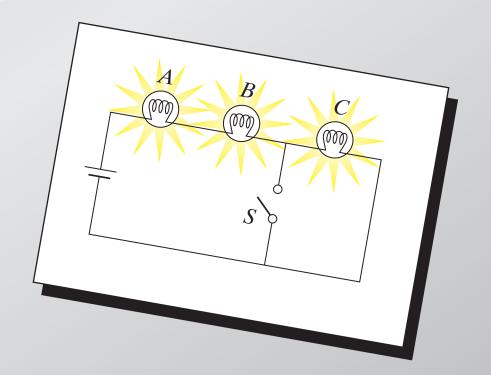


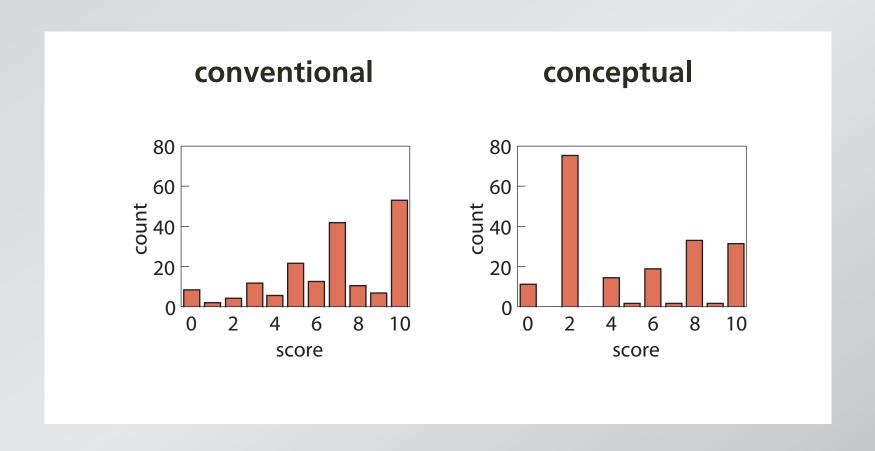
are the basic principles understood?

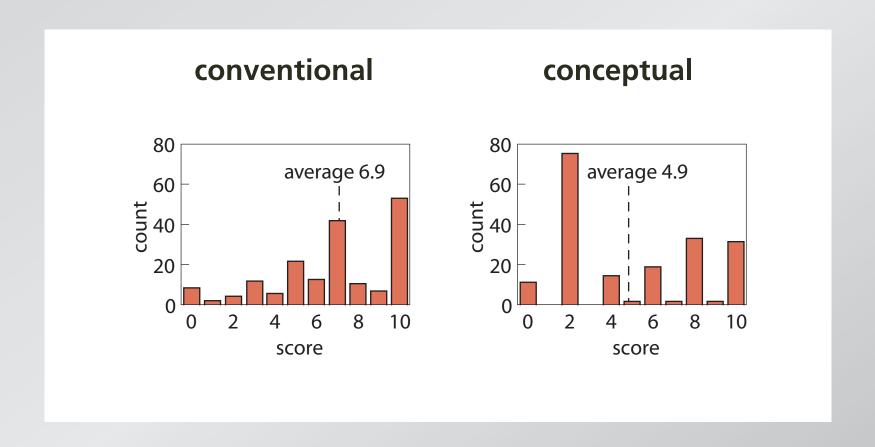
When S is closed, what happens to:

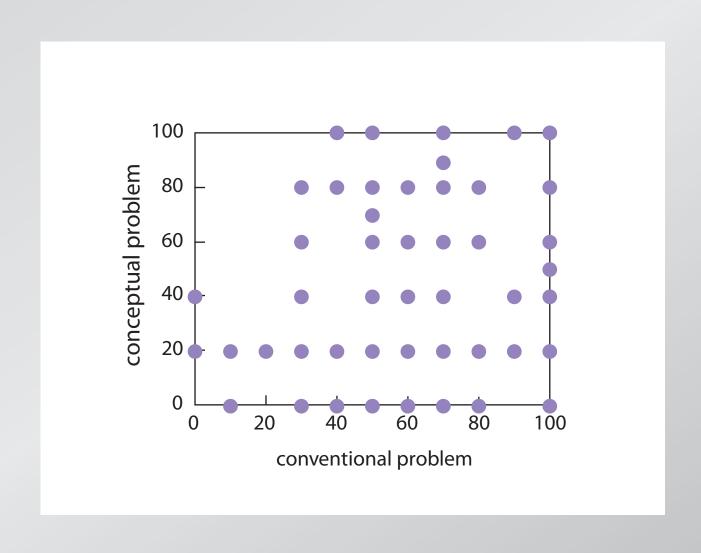
- (a) intensities of A and B?
- (b) intensity of C?
- (c) current through battery?
- (d) potential difference across

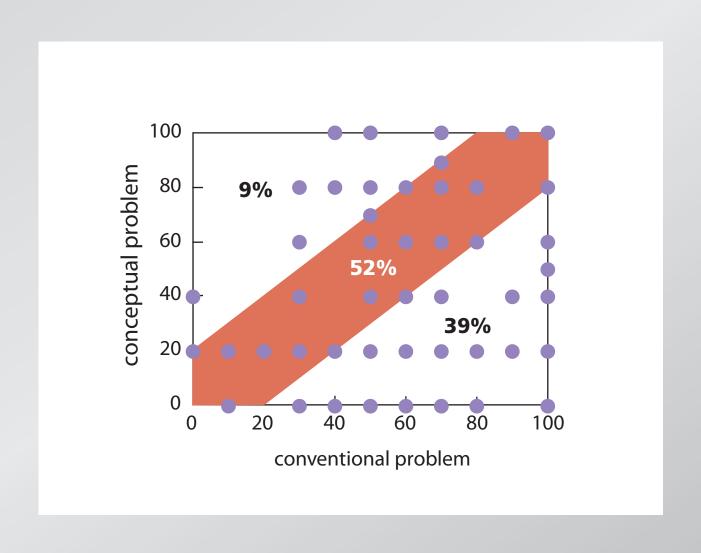
 A, B, and C?
- (e) the total power dissipated?















Give students more responsibility for gathering information...

Peer Instruction

Give students more responsibility for gathering information... so we can better help them assimilate it.

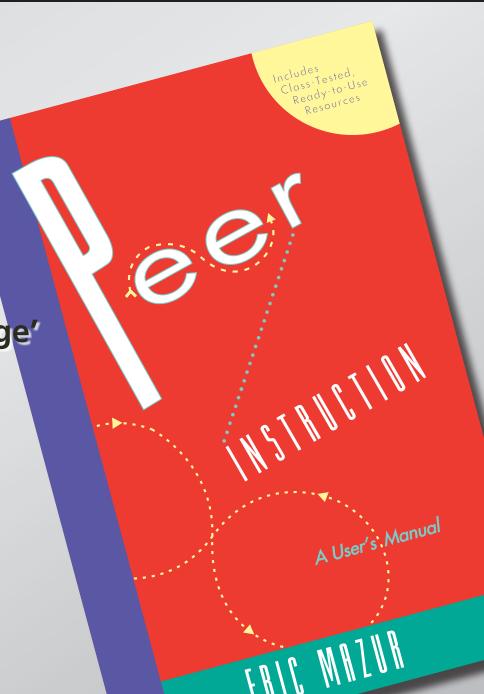
Peer Instruction

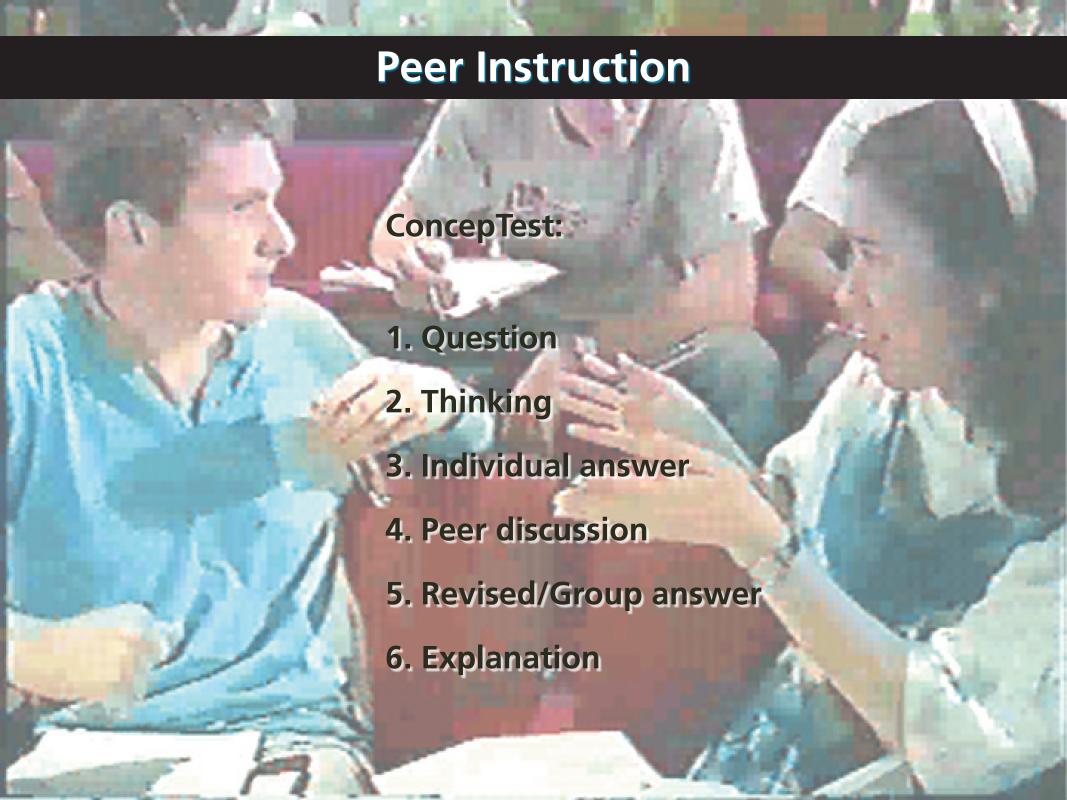
Main features:

pre-class reading

in-class: depth, not 'coverage'

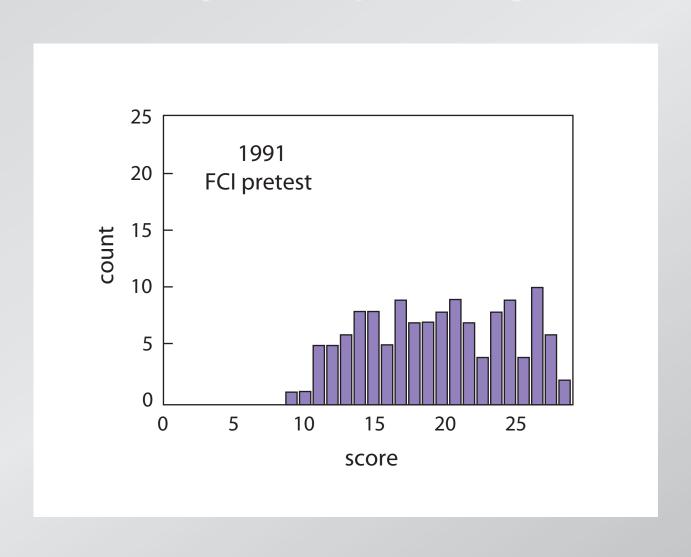
ConcepTests



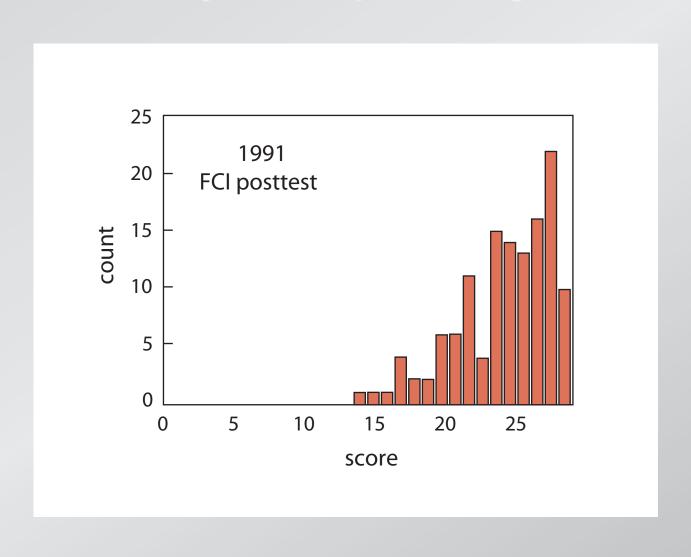


is it any good?

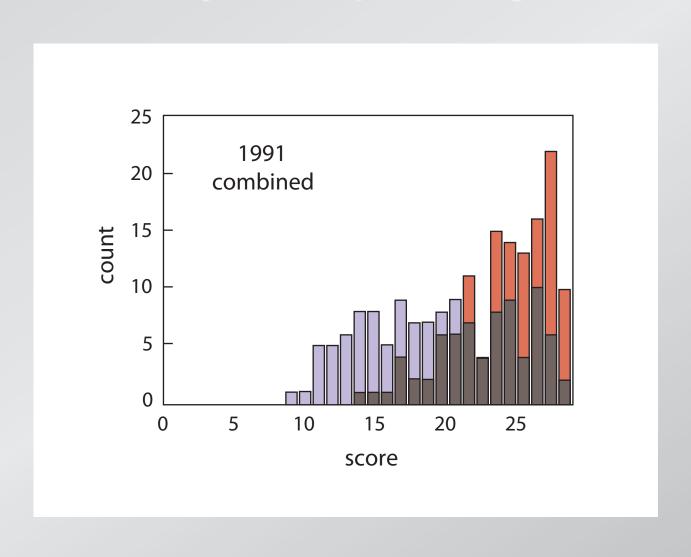
first year of implementing PI

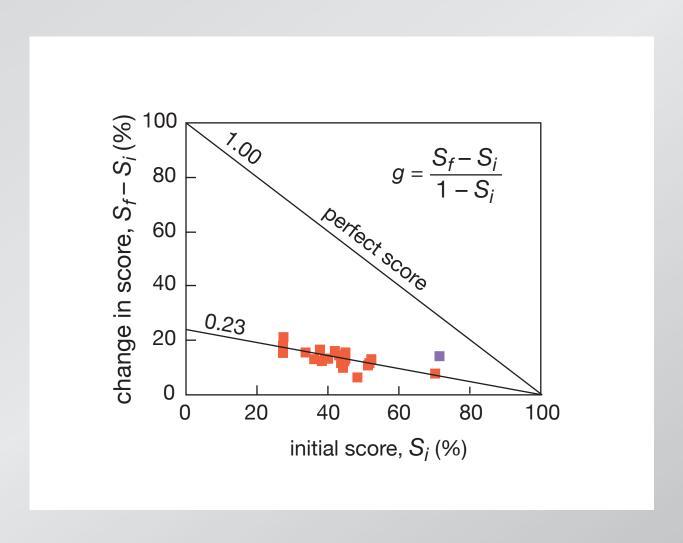


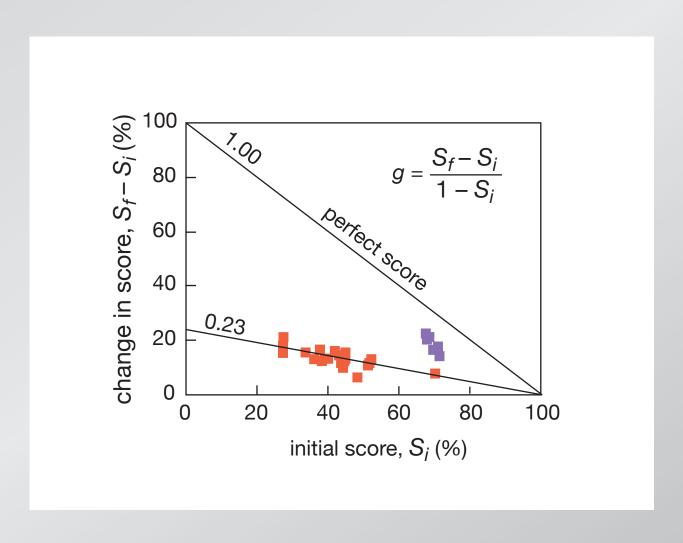
first year of implementing PI

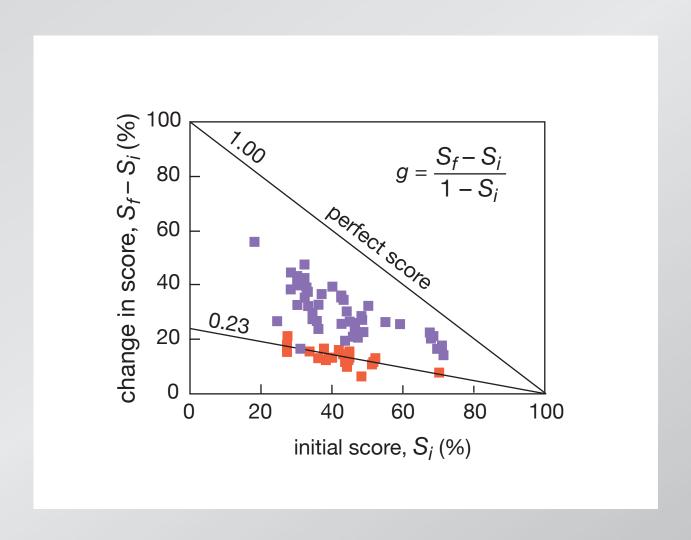


first year of implementing PI

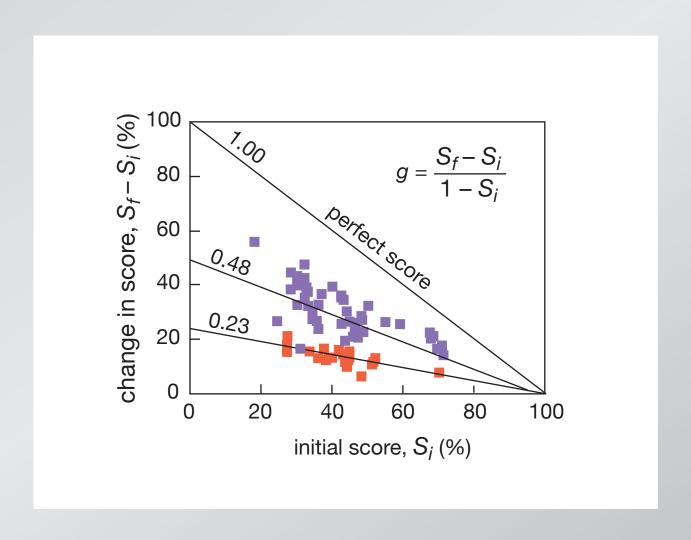






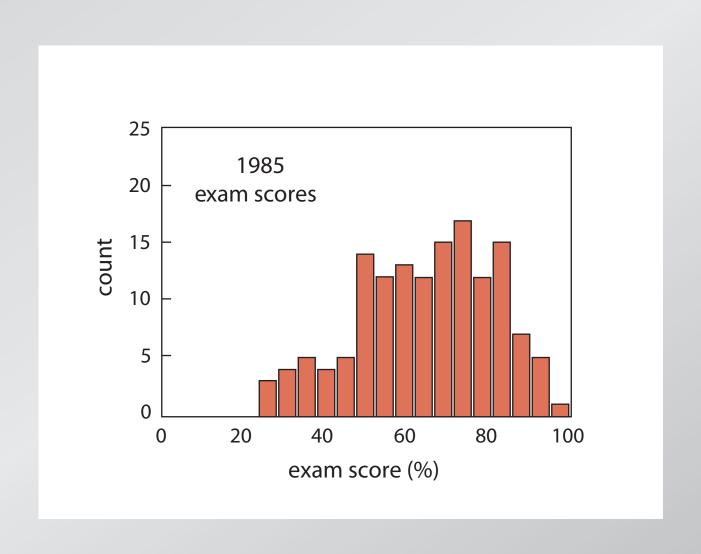


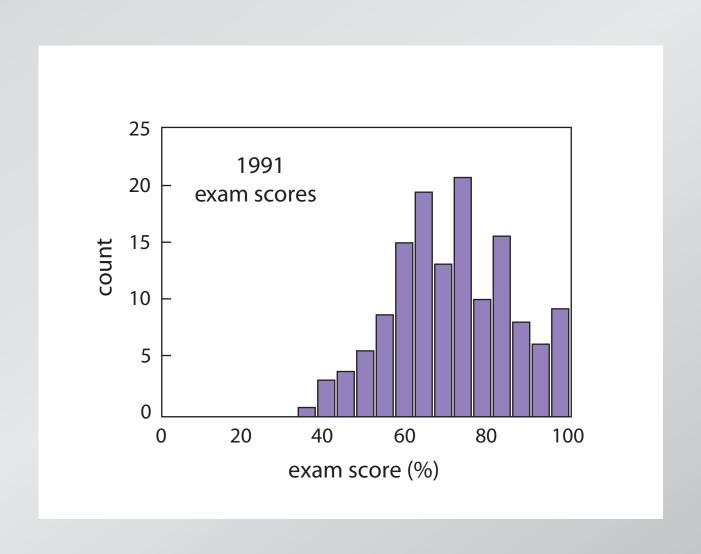
R.R. Hake, Am. J. Phys. 66, 64 (1998)

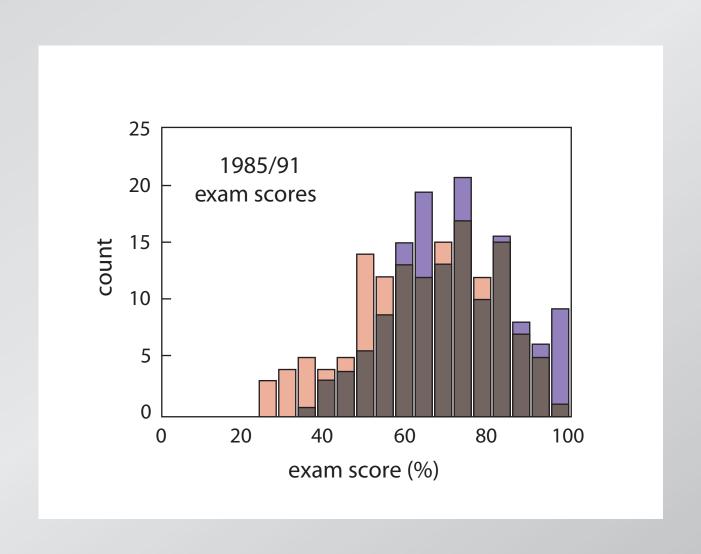


R.R. Hake, Am. J. Phys. 66, 64 (1998)

what about problem solving?







So better understanding leads to better problem solving!

So better understanding leads to better problem solving!

(but "good" problem solving doesn't always indicate understanding!)

Traditional indicators of success misleading

Traditional indicators of success misleading

Education is no longer about information

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