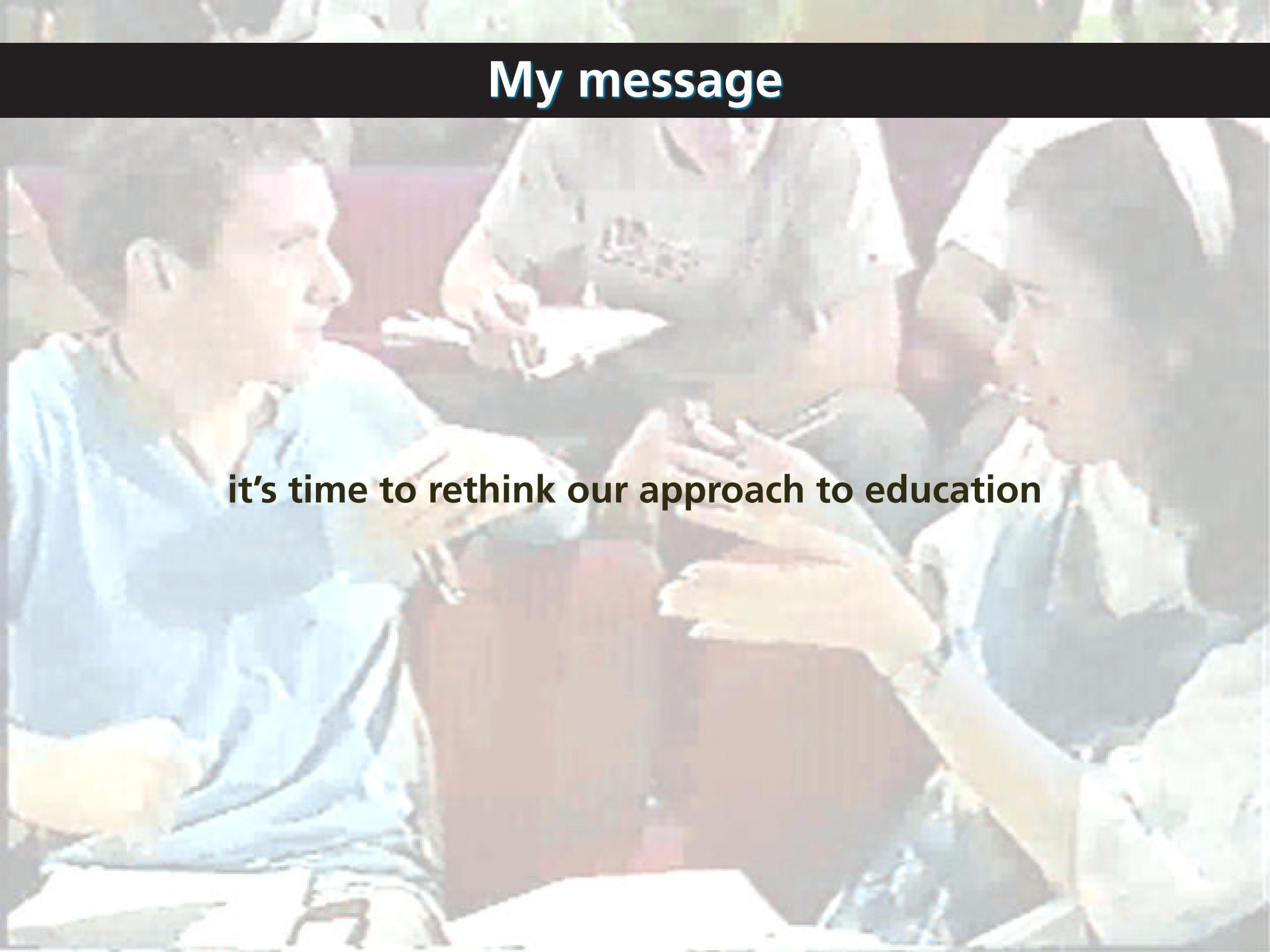


Meeting the information age challenge



AKU-FAS Core Curriculum Workshop
Wellesley, MA, 28 February 2009

My message

A photograph of a classroom scene. Several students of different ethnicities are seated at their desks, facing forward. The student in the foreground is wearing a light blue shirt. The student next to them is wearing a red shirt. The student behind them is wearing a grey hoodie. The student on the far right is wearing a white shirt. They all appear to be looking towards the teacher or a presentation.

it's time to rethink our approach to education

Outline

- Education

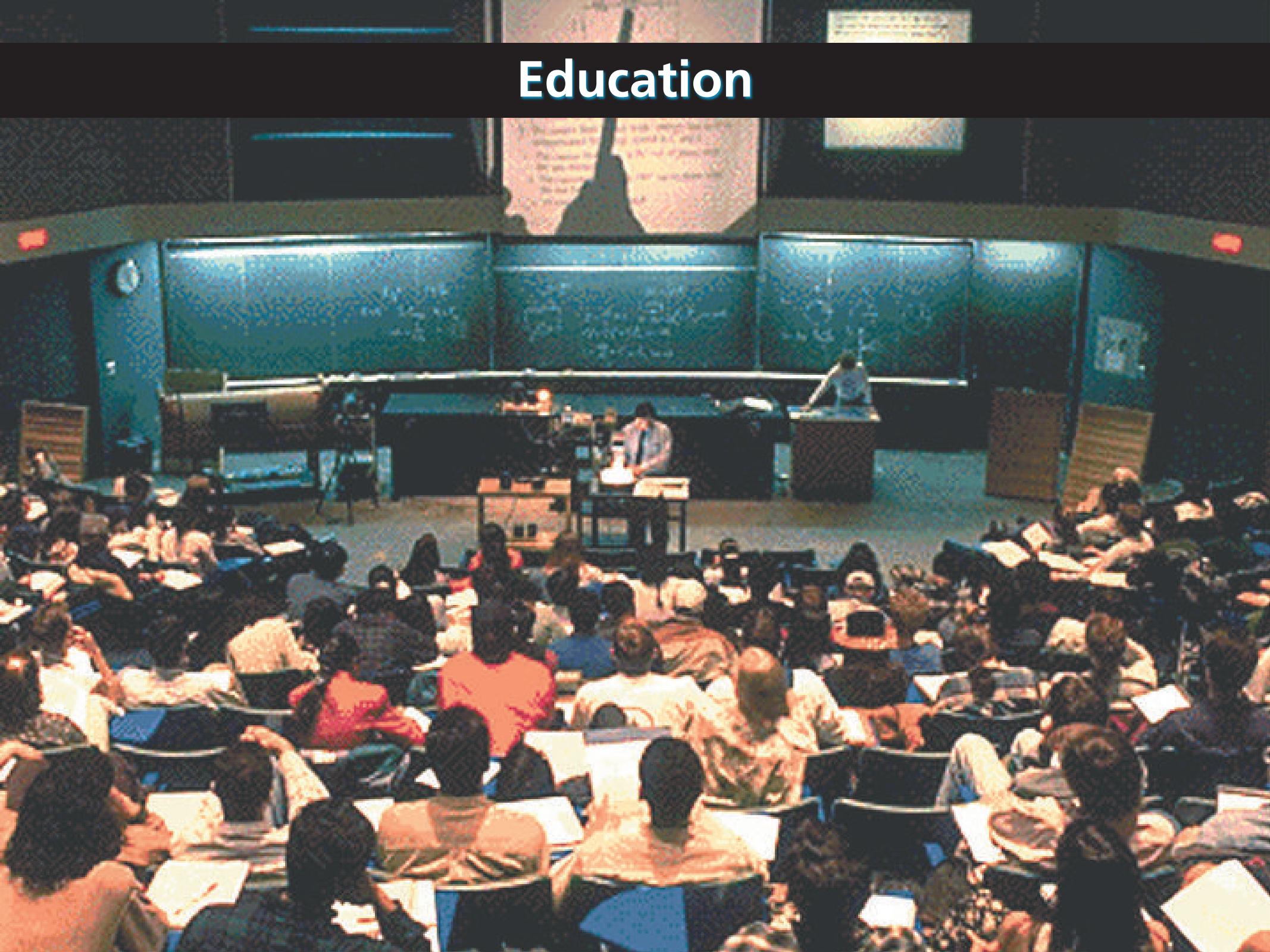
Outline

- Education
- Peer Instruction

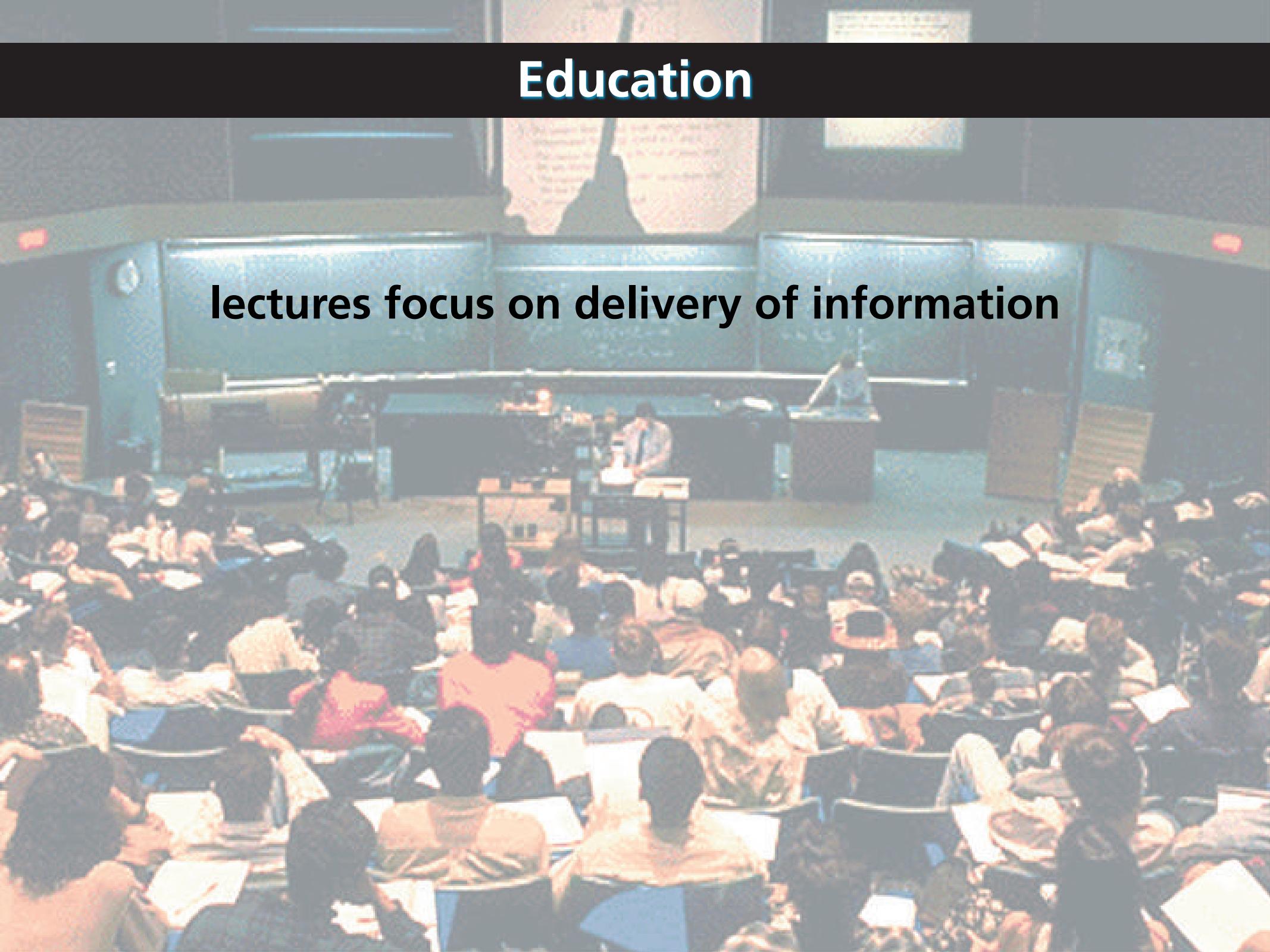
Outline

- Education
- Peer Instruction
- Results

Education



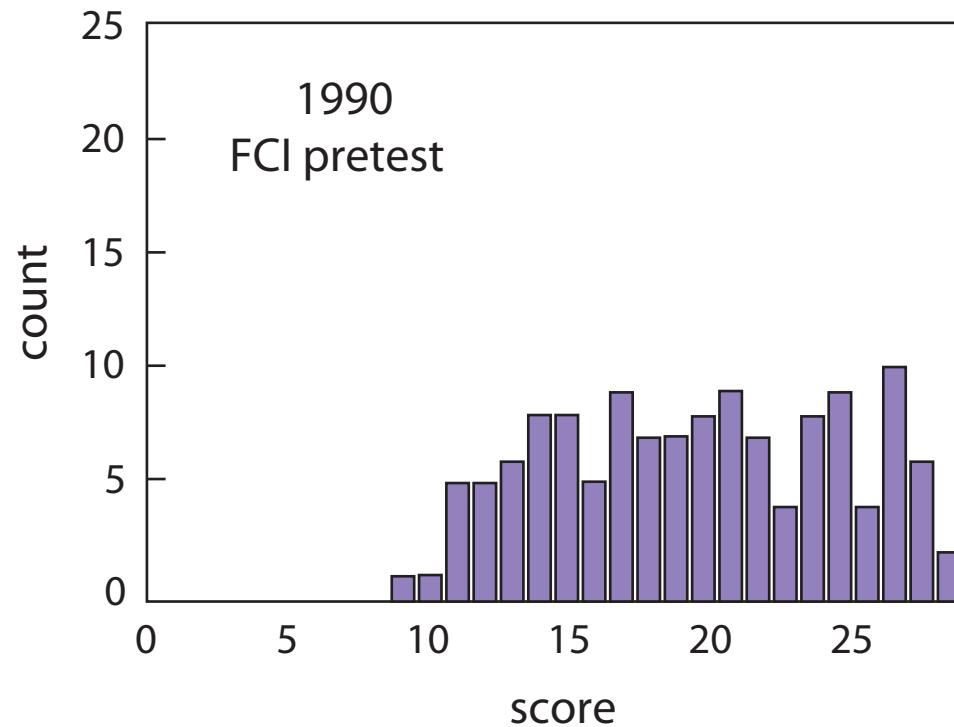
Education



lectures focus on delivery of information

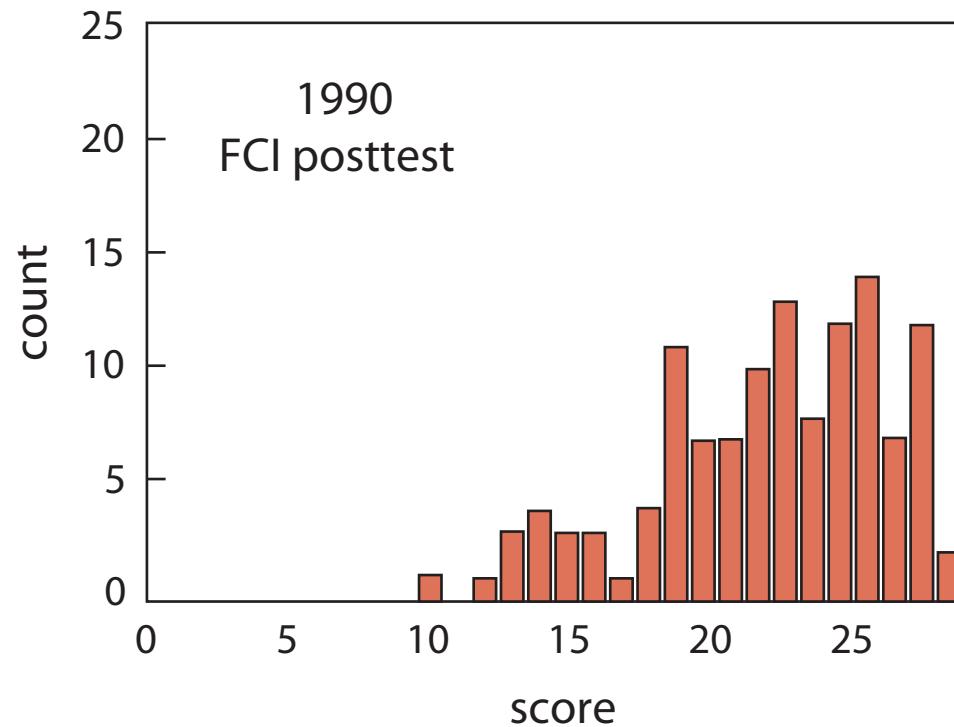
Education

education is not just information transfer



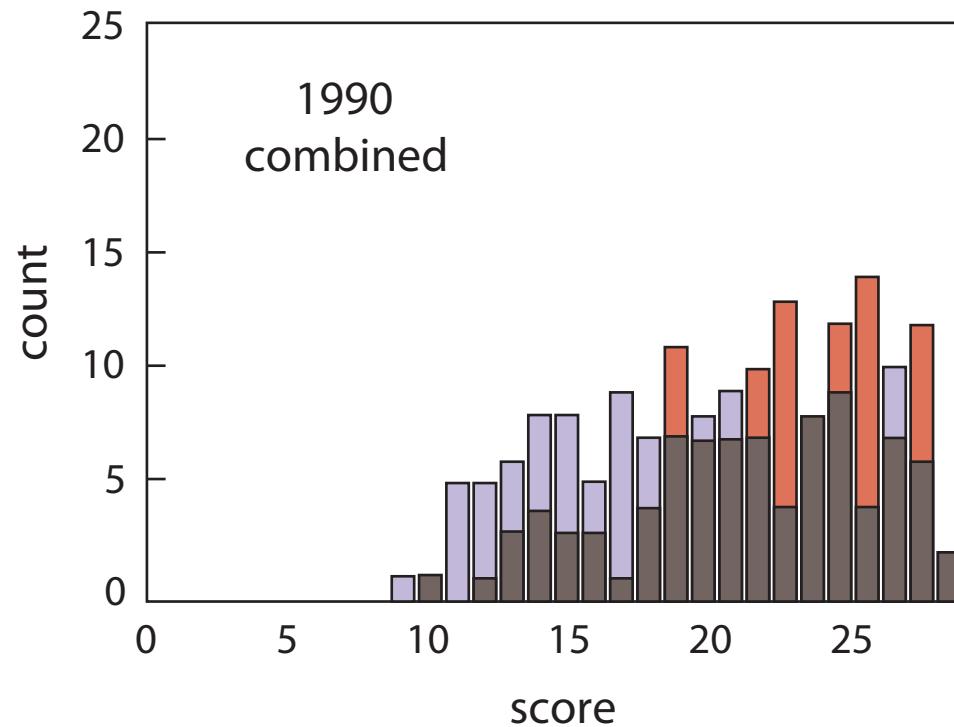
Education

education is not just information transfer

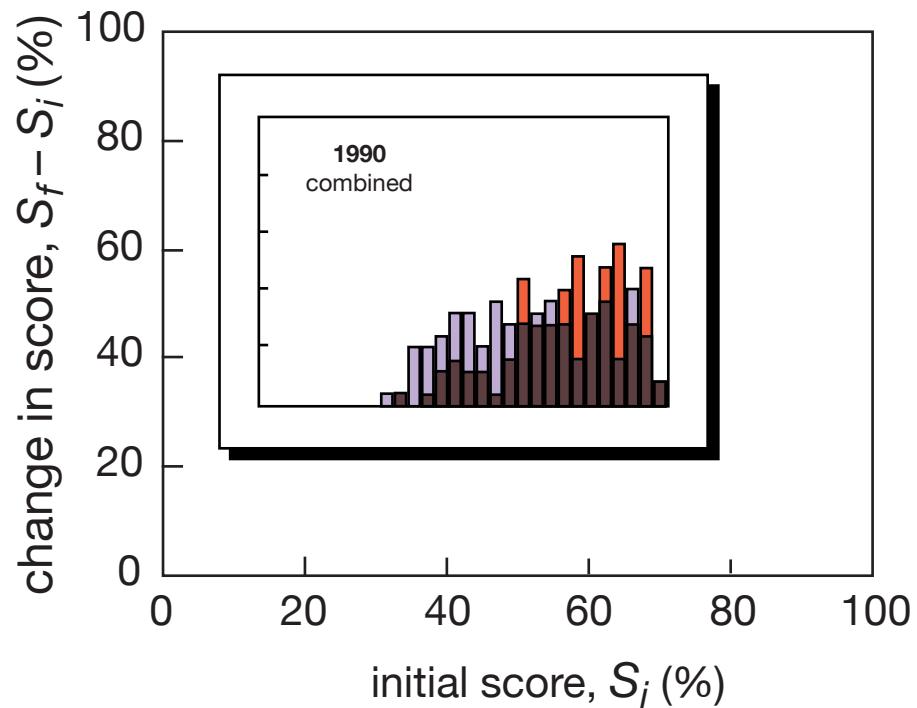


Education

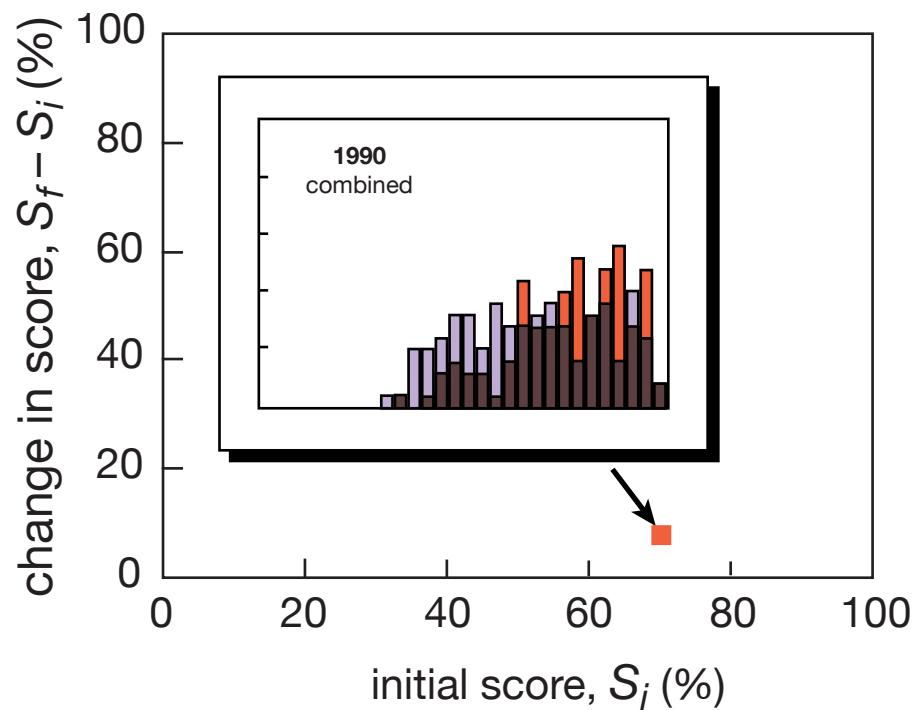
education is not just information transfer



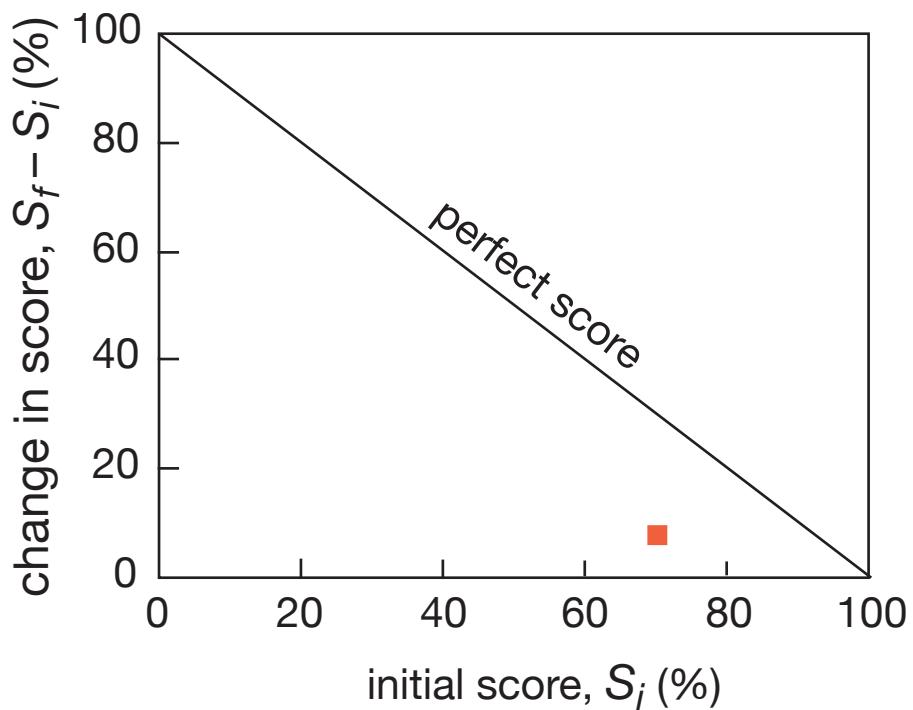
Education



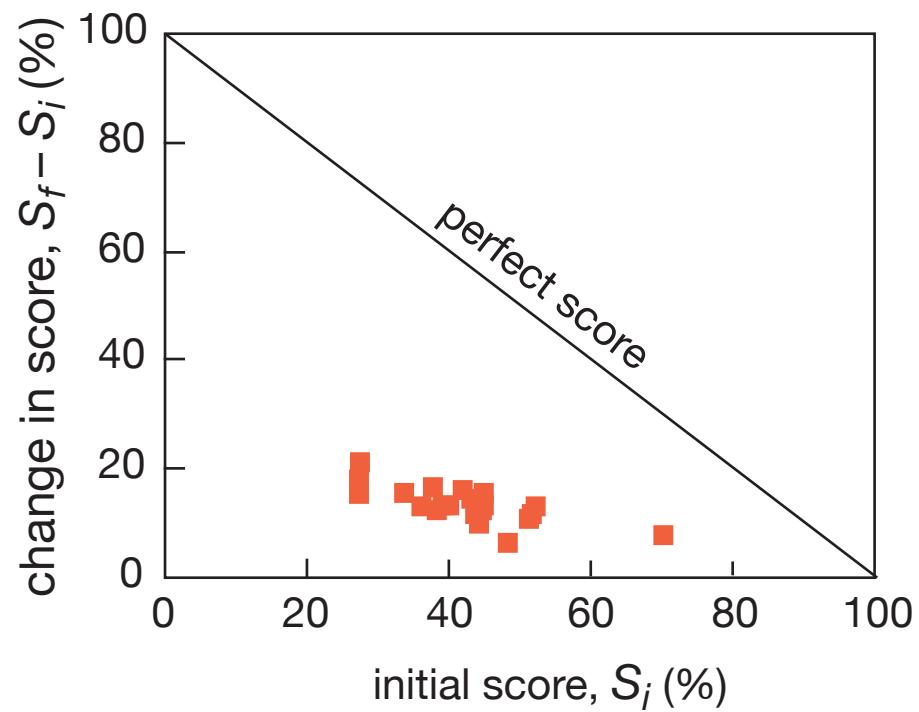
Education



Education

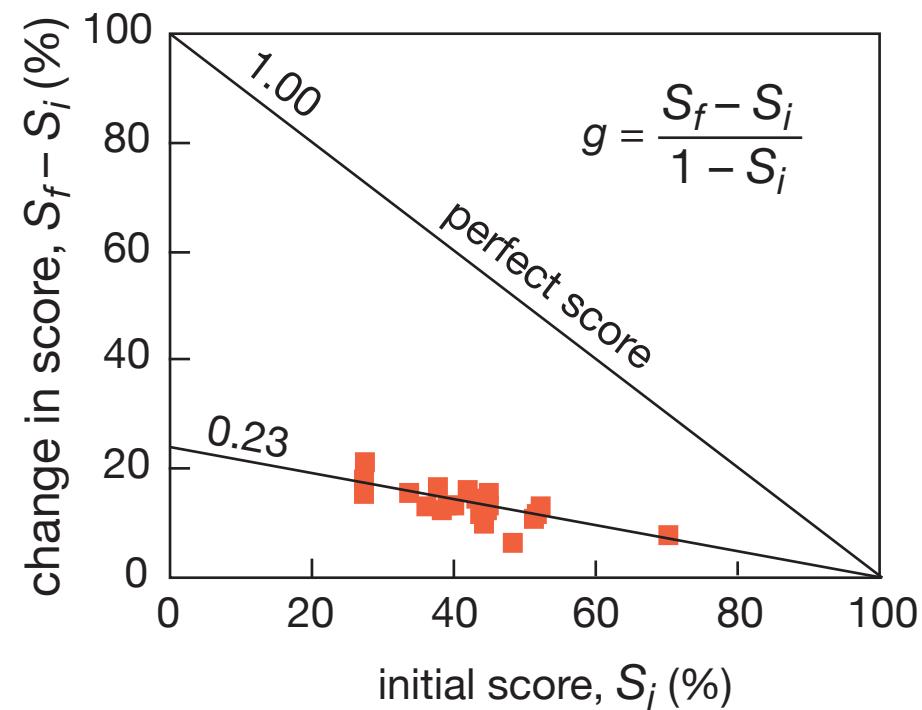


Education

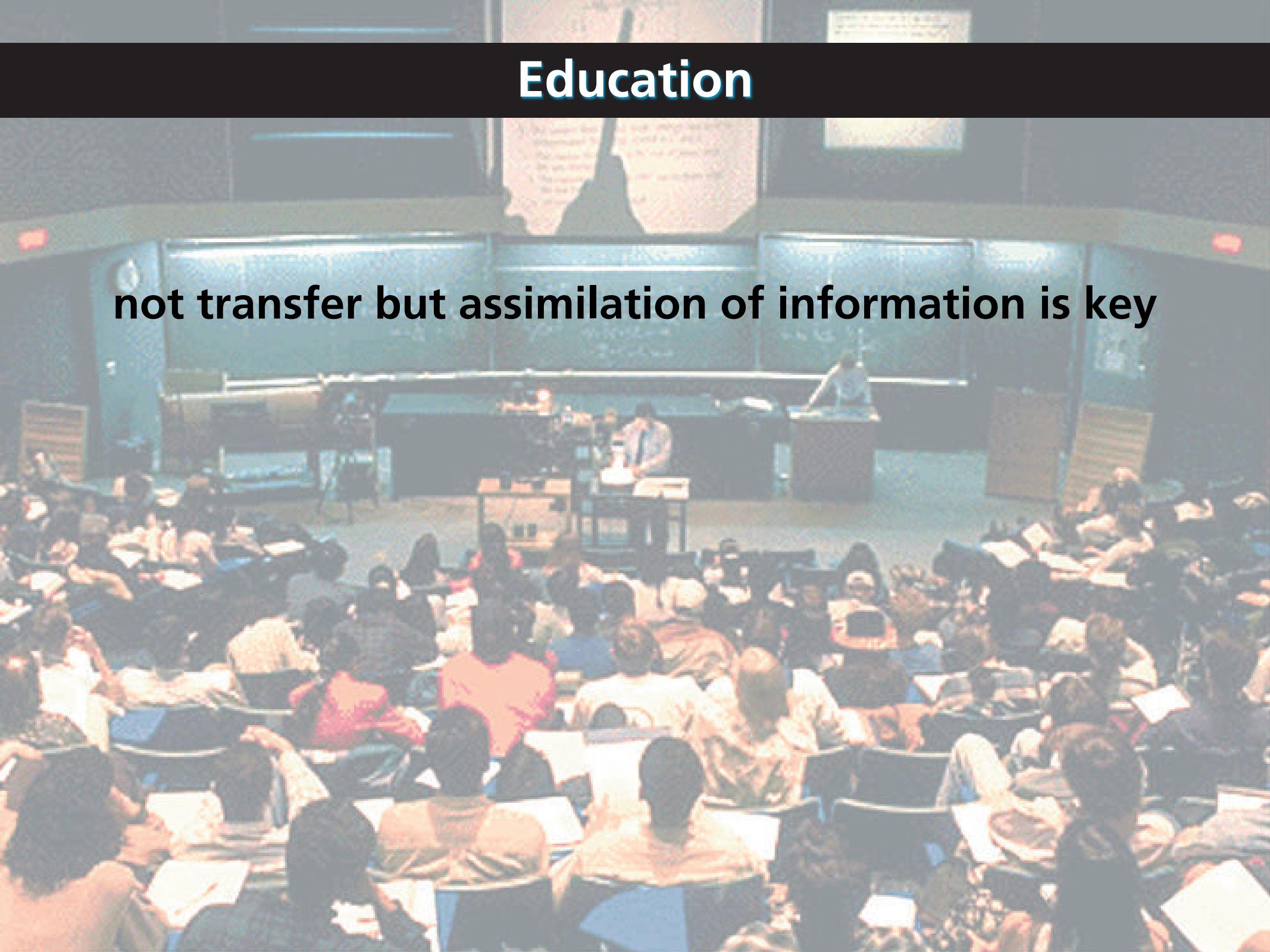


Education

only one quarter of maximum gain realized



Education

A photograph of a classroom filled with students. They are seated at their desks, facing towards the front of the room where a teacher is standing at a podium. The room has blue walls and various educational posters or charts hanging on them.

not transfer but assimilation of information is key



So what should we do?

Peer Instruction

Give students more responsibility for gathering information...

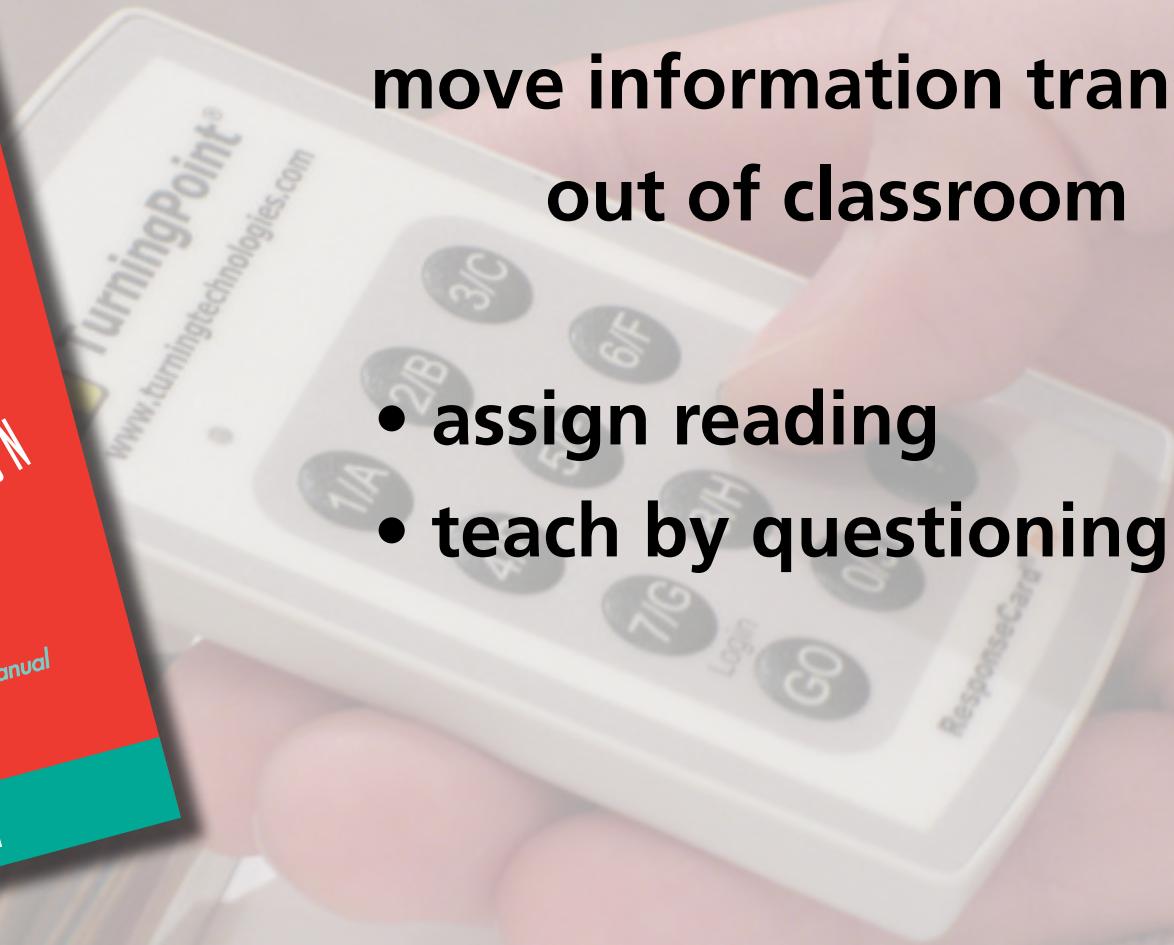
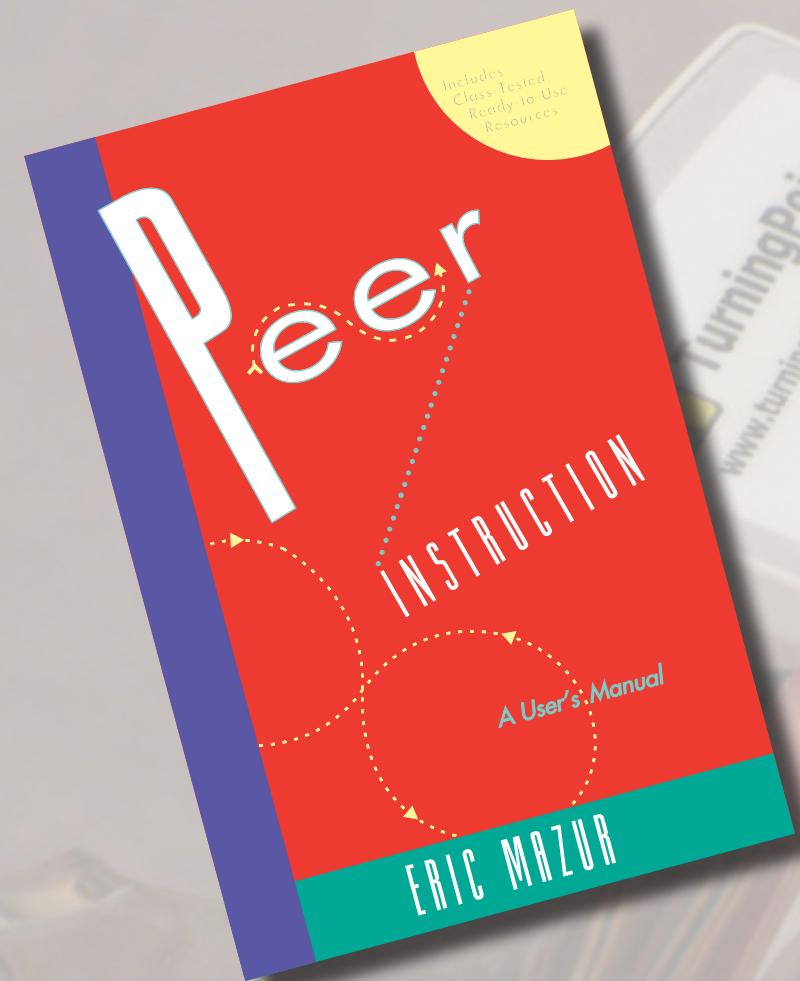
Peer Instruction

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

Peer Instruction

move information transfer
out of classroom

- assign reading
- teach by questioning

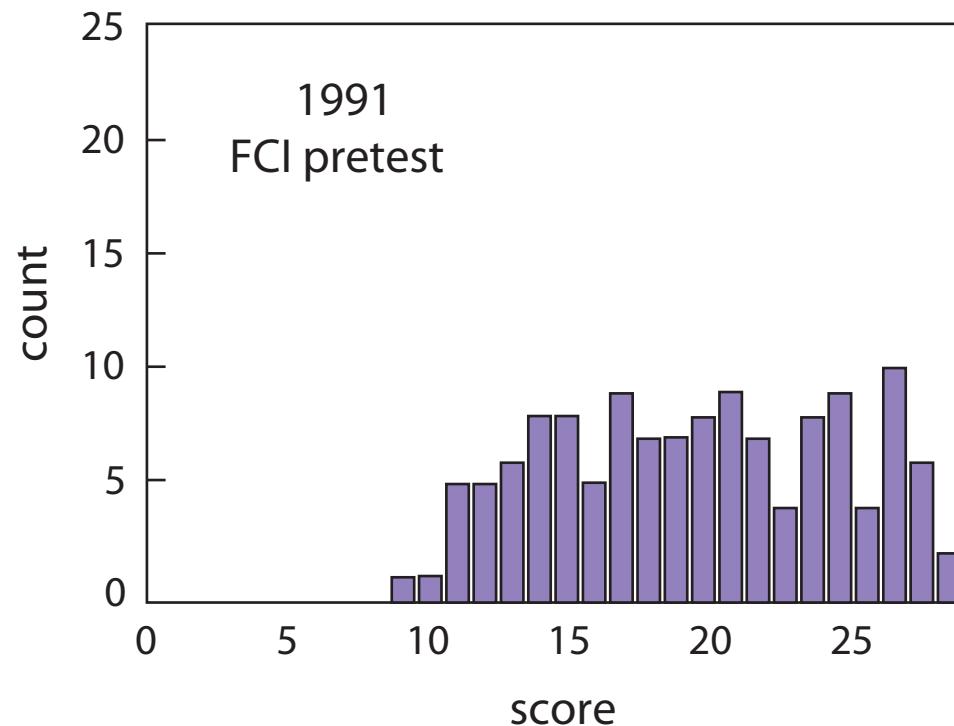


Results

is it any good?

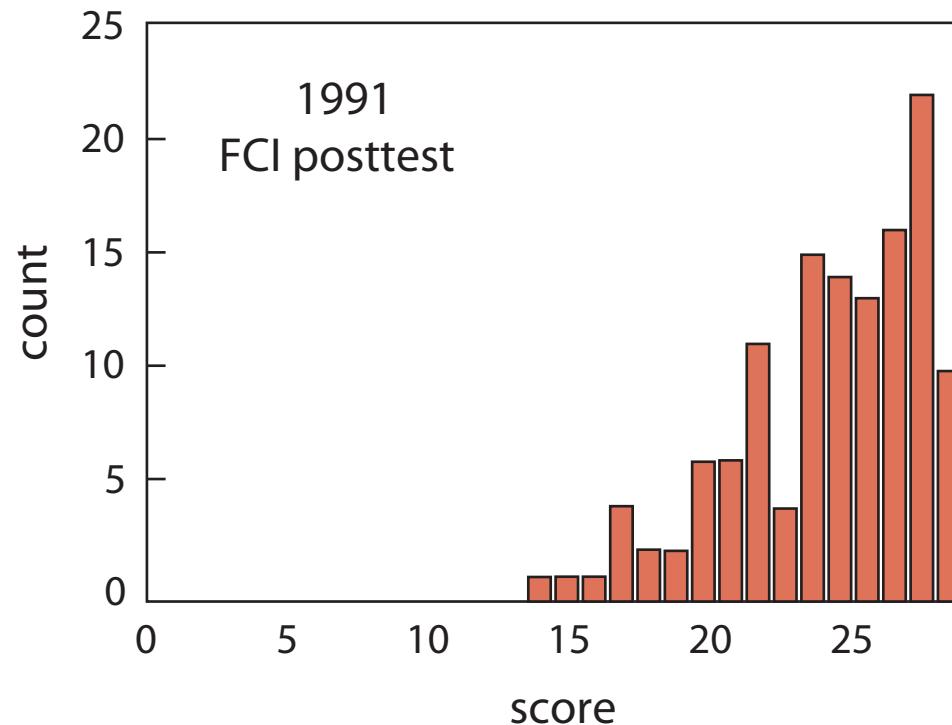
Results

first year of implementing PI



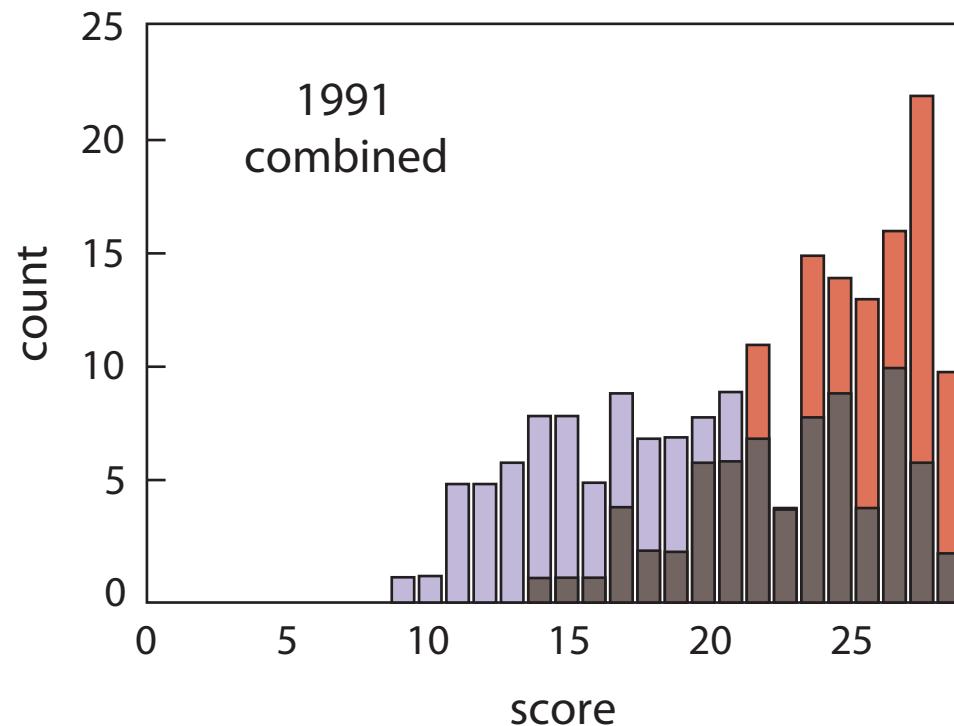
Results

first year of implementing PI

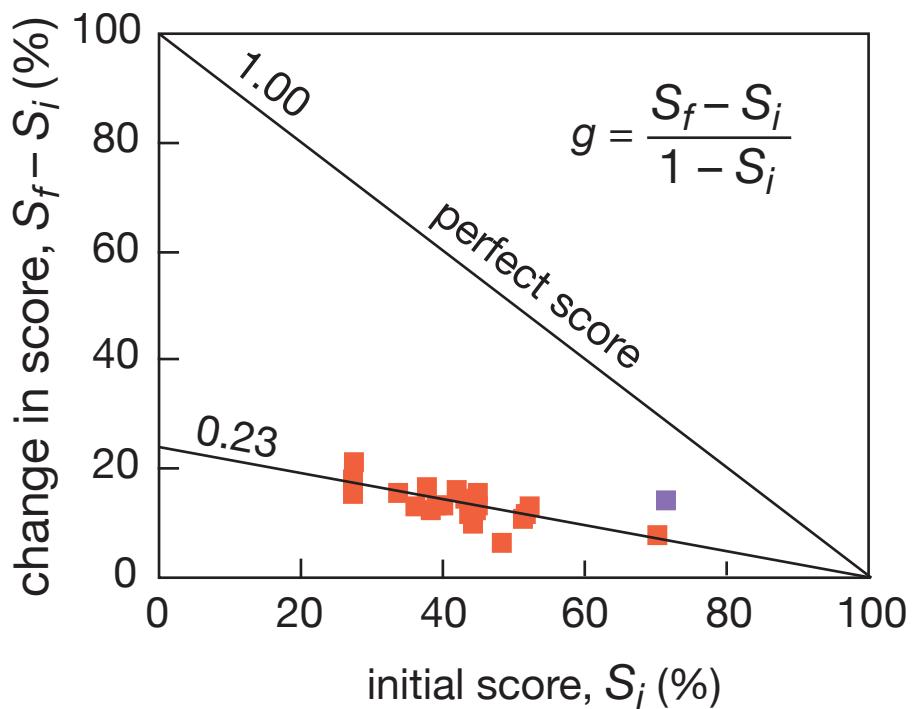


Results

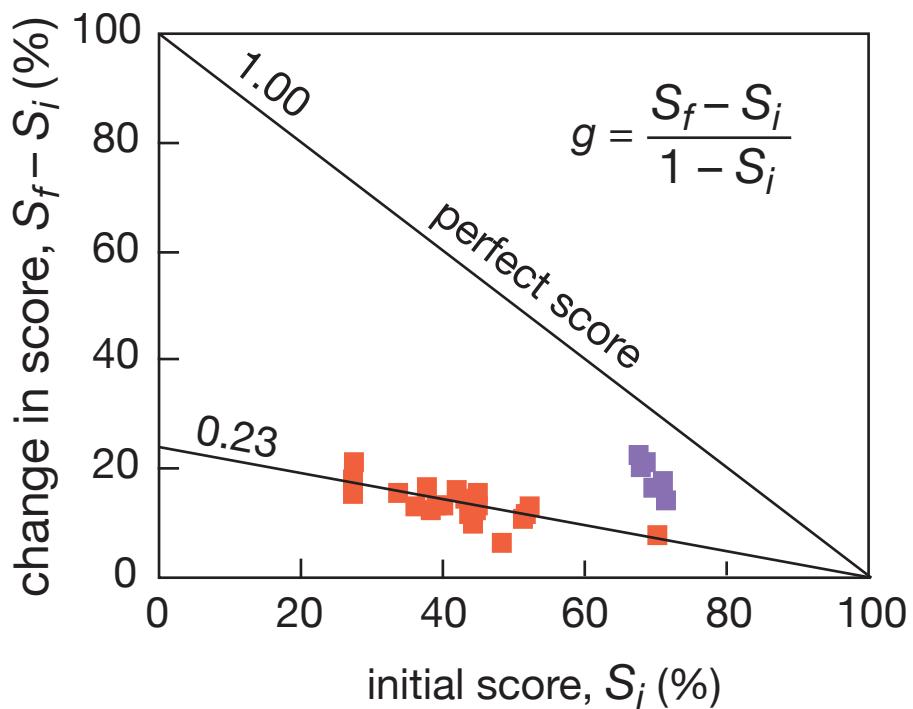
first year of implementing PI



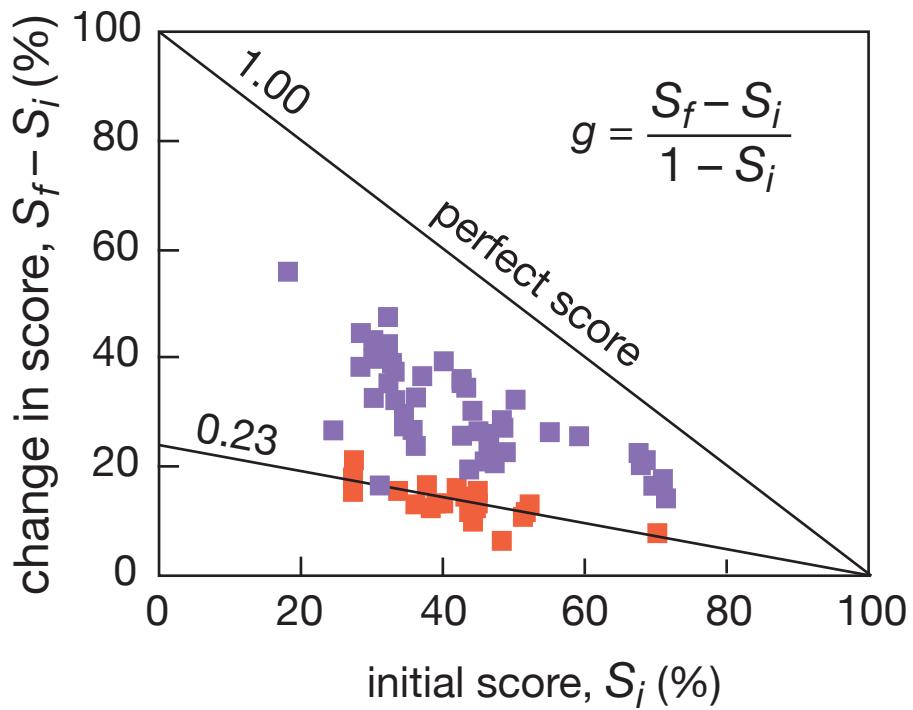
Results



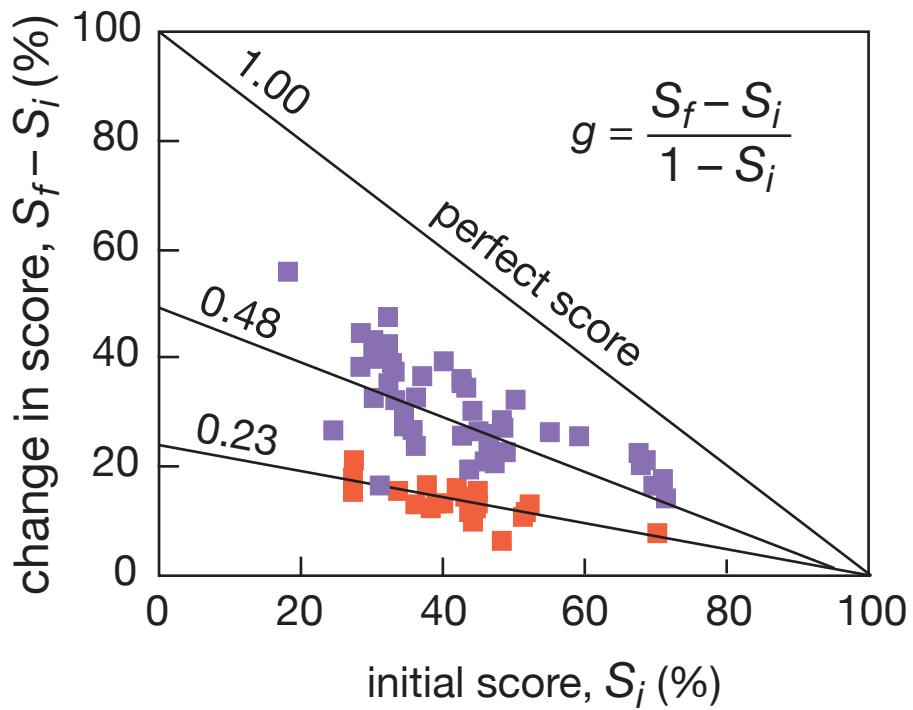
Results



Results



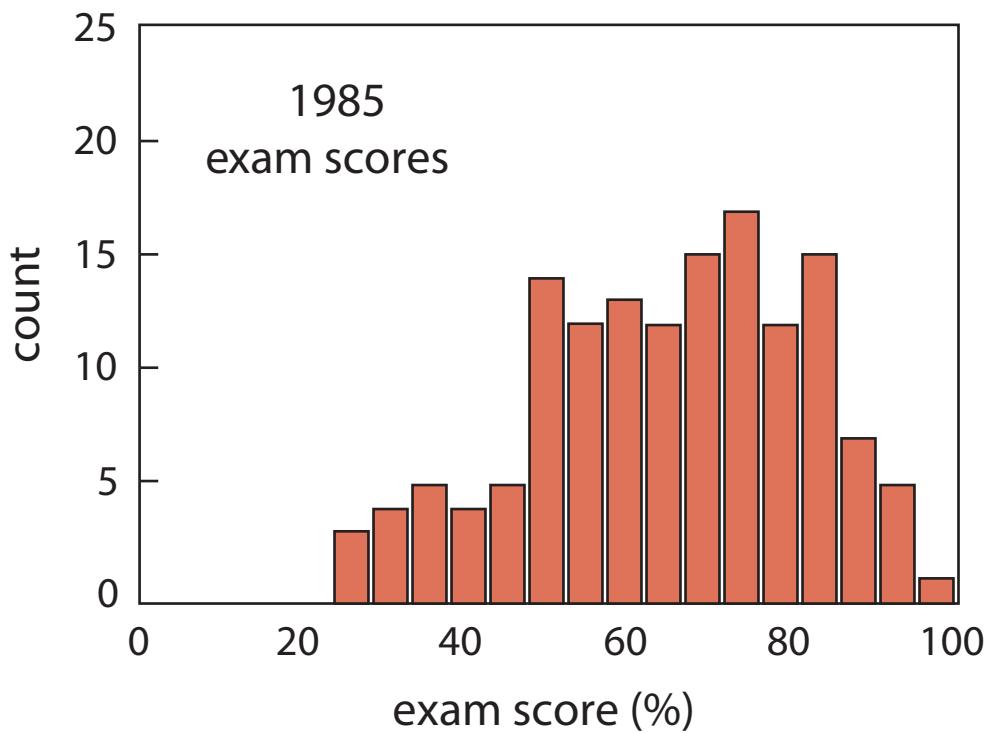
Results



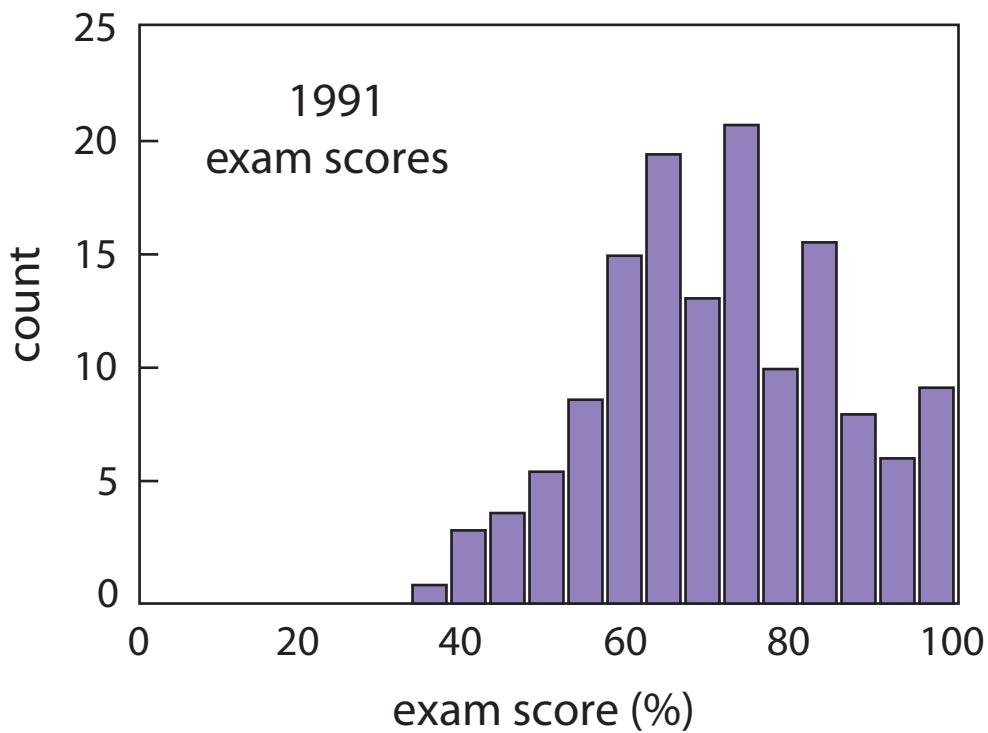
Results

what about problem solving?

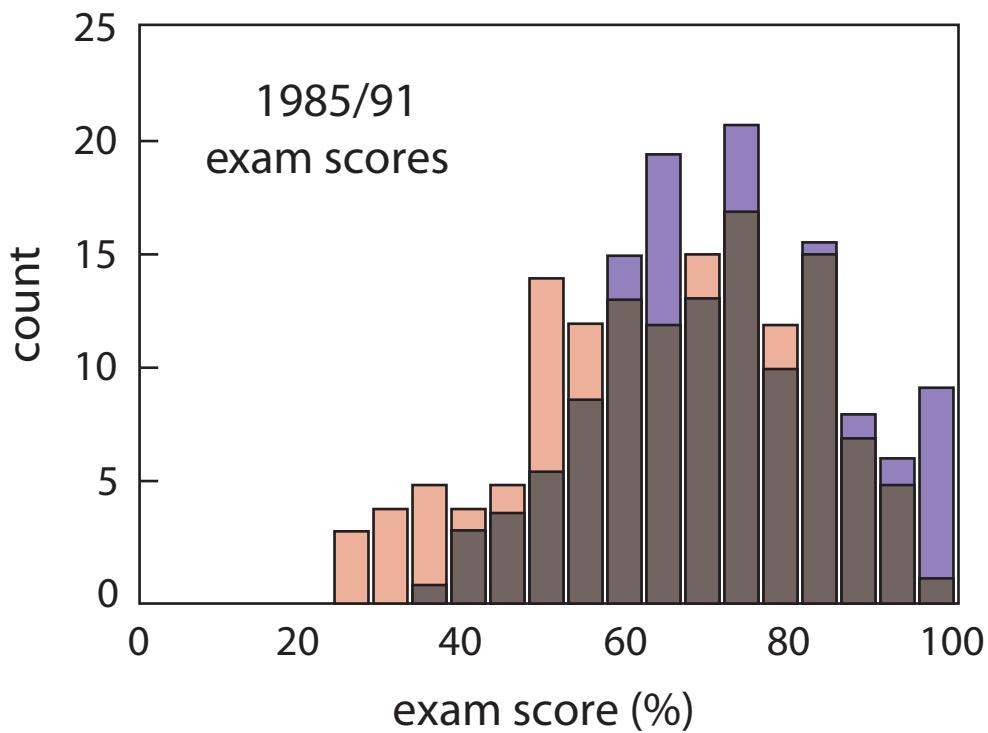
Results



Results



Results



Summary

Traditional indicators of success misleading

Summary

Traditional indicators of success misleading

Education is no longer about information

Funding:

National Science Foundation

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