

World Class Student-Centered Education

How policymakers can :

1. Improve Teacher Quality & End Teacher Shortages
2. Significantly Improve Student Outcomes
3. Personalize Mastery-Based Learning 24 / 7 / 365
4. Do It All without Significant Funding Increases

Presentation by Utah Senator Howard Stephenson
To Education Task Force, September 23, 2014

Ignác Fülöp Semmelweis

1818-1865



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1818-1865

The Father of Antisepsis



Jean Piaget (1896-1980)

Anyone of normal intelligence can be highly proficient in math and exact sciences if he receives immediate interactive feedback while working the problem





Using *time* as the constant and letter *grades* as the variable is exactly backwards.

Mastery should be the constant and *time* the variable.

Sal Khan

990 Hours

Homework without
interactive, adaptive
feedback can be harmful to
learning and yields
disappointment and an
inappropriate sense of
failure



Skill building and content knowledge through personalized, interactive, adaptive instruction



Freeing teachers to engage students in higher levels of Bloom's Taxonomy such as evaluation, synthesis, creativity collaboration

Historically we learned
just in case

Today we can learn
just in time

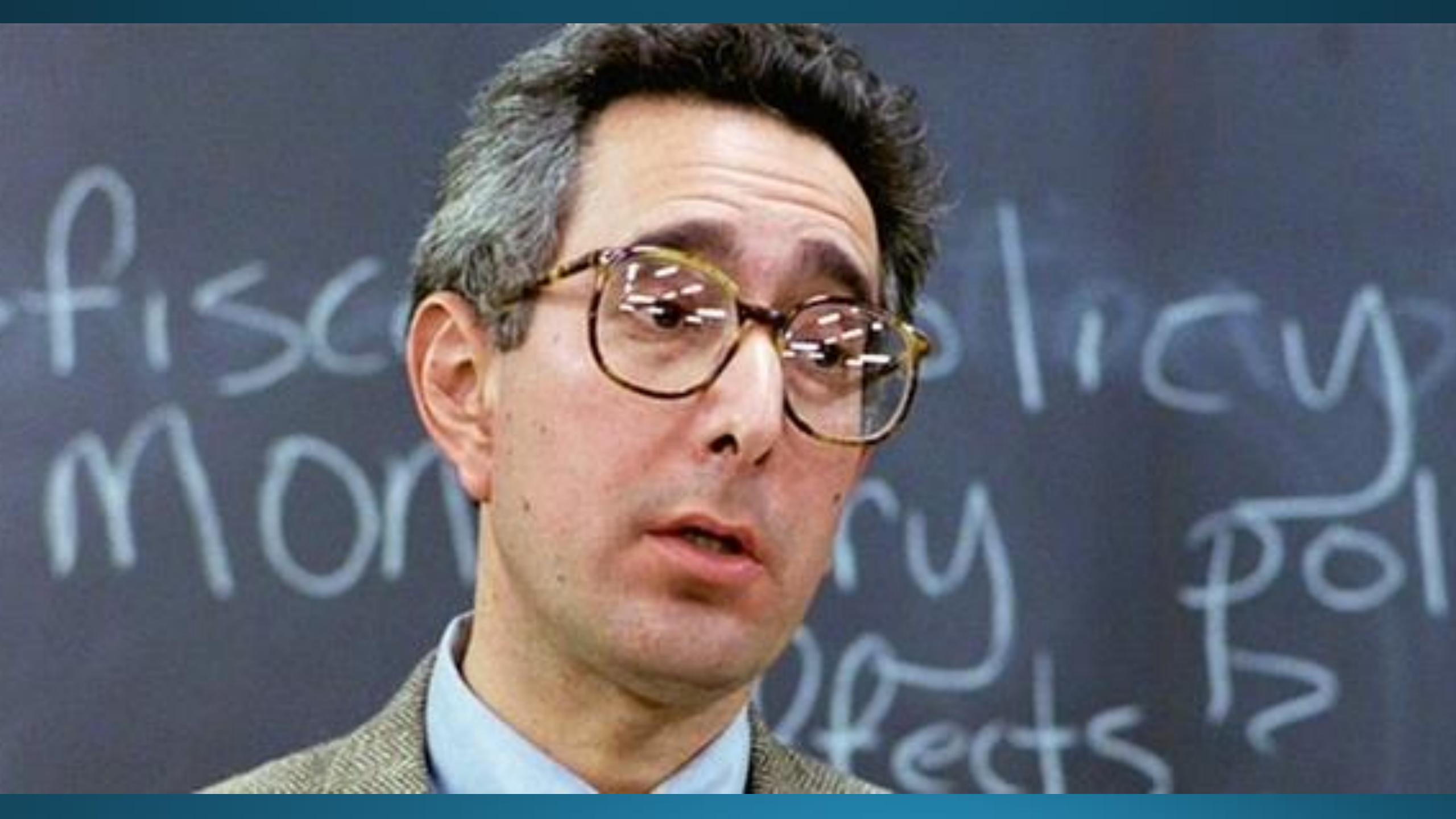
Education must make the shift !

Education must respect the learning styles of *each* student and personalize learning for *every* learner.



We become
digital natives
at a younger
and younger
age.





The typical elementary school has a ratio of 1:20 male to female teachers

Earning 50 percent more by teaching 50 percent more can attract more men into the teaching profession while improving the quality of teacher candidates.

TRAVERSE MOUNTAIN ELEMENTARY FACULTY



Taking Utah's Success with Digital Learning to the Next Level

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Can we move to personalized learning and mastery for every student without a significant increase in resources?

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AN EDUCATION INITIATIVE FOR THE STATE OF UTAH

A Report submitted to Utah's K-16 Alliance from its
Special Task Force on Teacher Shortages

March 2007

2010-2011

[illegible]

Student Centered Learning Pilot

Objective 1: Improving Teacher Quality

- **Modified calendar; ending teacher furloughs for one-third of the year**
- Teachers would be paid 50% more with no additional cost
- Up to 20 days paid vacation
- 10 paid holidays
- Greater leniency for personal leave
- Accomplished without significant funding increases



Student Centered Learning Pilot

Objective 2:

Improving Student Performance

- Students attend two semesters plus one virtual semester
- Students always learning, always earning credit
- All Students promoted on mastery
- Students promoted based on proficiency, not seat time



World Class Student-Centered Education

How do we start?

1. Provide Planning and Start-up Funds for 6-Year Competitive Pilot
2. Select Winners Based on Quality of Proposal and Survey of Parents & Teachers
3. Ensure Start-up Funding Includes Tools for Virtual Semester

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