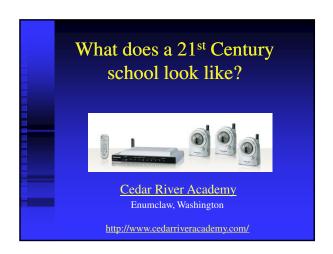
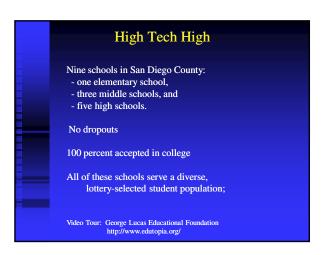
Step by Step... How and Why you need to become a 21st Century School Bob Hughes Florida Educational Technology Conference January 15, 2010



















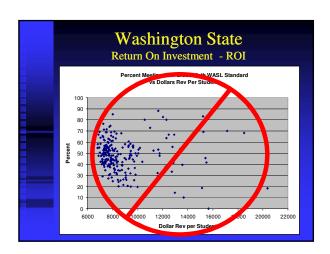
What does a 21st Century school look like? "It is not enough to do your best; you must

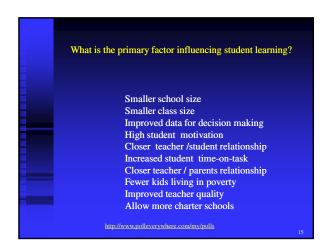
know what to do, and THEN do your best."

[W. Edwards Deming]

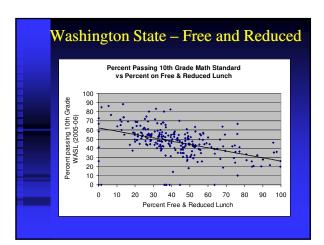
A "Research" Question...

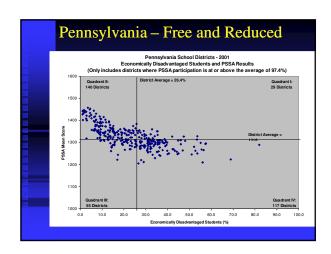
Predicting Success in school? What would you guess is the primary factor influencing student learning? Is it money?

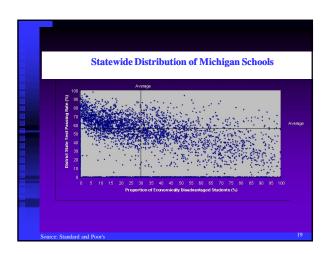


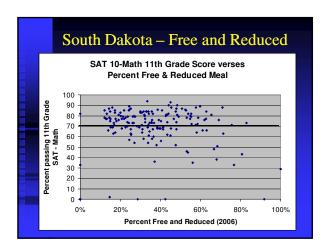


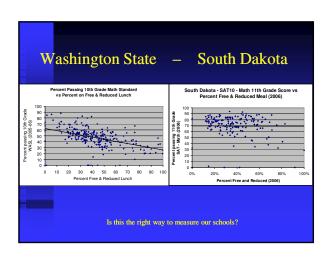
What is th	ne primary factor influencing student learning?
TEX	Γ to 99503
131839	Smaller school size
131840	Smaller class size
131841	Improved data for decision making
131842	High student motivation
131843	Closer teacher /student relationship
131844	Increased student time-on-task
131845	Closer teacher / parents relationship
131846	Fewer kids living in poverty
131847	Improved teacher quality
131848	Allow more charter schools



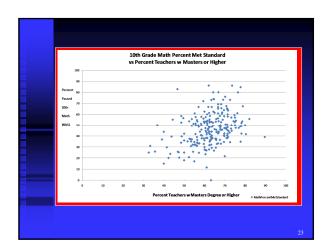


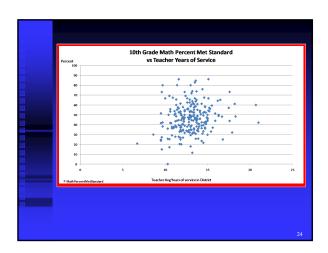










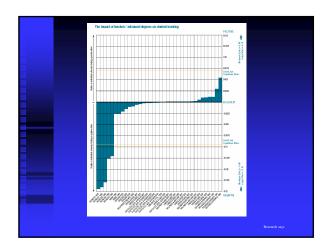


Out of 102 statistical tests that were examined, 64.7 % (n = 66) of the estimates indicated that teachers advanced degrees did not have any significant impact on student achievement.

On the other hand, 25.5% (n = 26) indicated a negative effect, and 9.8% (n = 10) suggested a positive effect of teachers' advanced degree on student achievement.

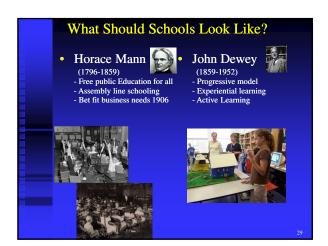
Source: National Council on Teacher Quality - October 2009
Human Capital in Seattle Public Schools:

http://www.nctq.org/p/publications/reports.jsp



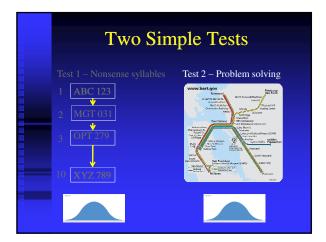


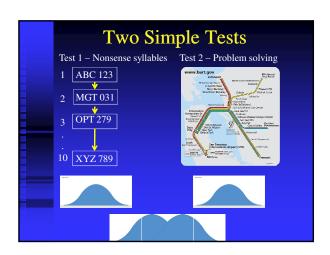


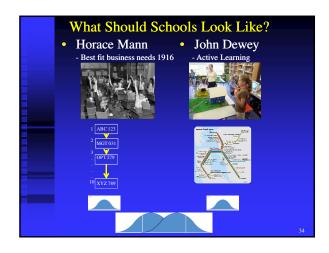


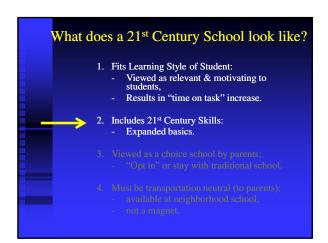


What does a 21st Century School look like? 1. Fits Learning Style of Student: - Viewed as relevant & motivating to students, - Results in "time on task" increase. 2. Includes 21st Century Skills: - Expanded basics. 3. Viewed as a choice school by parents: - "Opt in" or stay with traditional school. (Scalable) 4. Must be transportation neutral (to parents): - available at neighborhood school, - not a magnet.









What Should 21st Century Schools Look Like? • Look to Staff Development for a clue... it doesn't work. • The reason is... kids above the 8th grade are bored stiff.

What Should 21st Century Schools Look Like?

- Look to Staff Development for a clue...
 it doesn't work.
- The reason is... kids above the 8th grade are bored stiff.
- Exercise Design a school where discipline is not a problem...

37

What Should 21st Century Schools Look Like?

• Exercise - Design a school environment where discipline is not a problem...



38

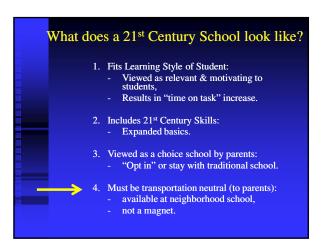
What Should 21st Century Schools Look Like?



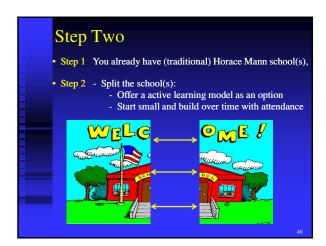
- Sports, Athletics
- Summer camp,
- School newspaper / Year book
- Performing arts
- Debate, Speech
- Music
- Student Council
- Kids are engaged, working on common goals, accomplishing a task, communicating, learning ...
- All are 21st Century skills

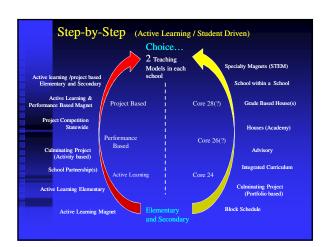
Skills for the 21st Century: · Basic, scientific, & technology literacy · Visual & information literacy Cultural literacy and global awareness Adaptability/managing complexity Curiosity, creativity & risk taking High order thinking & sound reasoning • Teaming, collaboration & interpersonal skills Personal & social responsibility Interactive communication • Prioritizing, planning and managing results Effective use of real-world tools • Relevant, high quality products Skills for the 21st Century: Basic, scientific, & technology literacy Source: http://www.21stcenturyskills.org/ States that have joined with the P21 to update their standards and assessment: • Arizona • Nevada • Illinois • New Jersey • Iowa • North Carolina • Kansas • South Dakota • Louisiana • West Virginia • Maine Wisconsin Massachusetts Source: A review of 21st century essential skills and state graduation requirements - Oct 2009: http://sites.google.com/a/sw.wednet.edu/step-by-step-how-and-why-

What does a 21st Century School look like? 1. Fits Learning Style of Student: - Viewed as relevant & motivating to students, - Results in "time on task" increase. 2. Includes 21st Century Skills: - Expanded basics. 3. Viewed as a choice school by parents: - "Opt in" or stay with traditional school.











Active learning, Child-centered, Project based, Performance (not seat time) based, Low class size (18 to 1), Combined grade level classes (e.g., K-1, 1-2, 2-3, etc.) Transfers responsibility for learning from teacher to student, Automated Student tracking tools, Increased student motivation, resulting in increased time-ontask, Teachers work collaboratively Teacher as instructional leader, Secondary level teacher evolves to chief "learner" in the room.

Resource List Books: A. "The World Is Flat" – Thomas Friedman – 2005 – 479 pages B. "Outliers" – Malcolm Gladwell C. "Brain Rules" – John Medina D. "Disrupting Class" – Christensen, Johnson & Horn E. "Outrageous Learning: An Education Manifesto" – Scott Oki F. "A Whole New Mind" – Daniel Pink G. "Frames of Mind: Theory of Multiple Intelligences" – Howard Gardner

References: A. "It's About Time." National Education Association, 1993. NEA National Center for Innovation. B. "A Nation at Risk: The Imperative for Educational Reform." National Commission on Excellence in Education, 1983. http://www.ed.gov/pubs/NatAtRisk/index.html C. "Prisoners of Time" National Education Commission on Time and Learning, 1994 (reprinted 2005). http://www.ed.gov/pubs/PrisonersOfTime/index.html D. "Time for a Change: The Promise of Extended-Time Schools for Promoting Student Achievement." Massachusetts 2020 Foundation, Fall 2005. www.mass2020.org or w http://www.ecs.org/html/document.asp?chouseid=6595

References (Continued): E. Teacher Quality and Student performance: * "Defining Highly Qualified Teachers: What does 'Scientifically-Based Research' Actually Tell Us? (with Peter Youngs). Educational Researcher (2002). * "Reinventing High School" (with Jacqueline Ancess and Susanna Ort). American Educational Research Journal (2002). * "Teacher Quality and Student Achievement" in Educational Policy Analysis Archives (2000);

Resource List Schools - Philadelphia's High School of the Future www.phila.k12.pa.us http://www.microsoft.com/education/schooloffuturedownloads.mspx - Center for Advanced Research and Technology - C.A.R.T. (Clovis & Fresno Unified School Districts - CA) http://www.cart.org/about/whatis.php - Aviation High School - Highline School District - STEM Magnet http://www.aviationhs.org/about_us.htm - Cedar River Academy - Enumclaw, WA - Private Pre K- 5 http://www.cedarriveracademy.com/ - University Child Development School - Seattle , WA - Private - PreK-5 http://www.ucds.org/ - High Tech High - San Diego, CA - Charter School http://www.hightechhigh.org/

Resource List Schools: - Tacoma School of the Arts – Tacoma Public Schools- Magnet http://www0.tacoma.k12.wa.us/schools/hsx/sota/ - The Met- A network of 6 public high schools in metropolitan (Providence) Road Island – small school concept http://www.themetschool.org/Metcenter/History.html - Truman High School – Federal Way School District – Performance http://schools.fwps.org/ruman/ - Corbett School District - 35800 E Historic Columbia River Hwy Corbett, OR http://www.corbett.k12.or.us/index.php Conferences: NSBA T+L Conference - Phoenix, Arizona, October 20 – 22, 2010 http://www.nsba.org/tl/

A. Step-By-Step web site: http://sites.google.com/a/sw.wednet.edu/step-by-step-how-and-why-you-need-to-become-a-21st-century-school/ B. George Lucas Educational Foundation http://www.gatesfoundation.org/nr/downloads/ed/ed/whitepaper.pd http://www.gatesfoundation.org/nr/downloads/ed/ed/whitepaper.pd http://www.gatesfoundation.org/nr/downloads/ed/ed/whitepaper.pd http://www.gatesfoundation.org/nr/downloads/ed/ed/whitepaper.pd http://www.gatesfoundation.org/nr/downloads/ed/ed/whitepaper.pd http://www.microsoft.com/education/schoolofthefuture/ E. Matrie Group (Cheryl Lemke) http://www.metri.com F. Partnership For 21st Century Skills - State Implementation Guides http://www.zlsteenturyskills.org/ G. Cable in the Classroom - Spring 2006 - Threshold - Changing Course; New Thinking About High School Reform http://www.ciconline.org/archives (search for: Changing Course;)

A. The Buck Institute (BIE) - Project Based Learning Handbook http://www.bic.org/index.php/sic/PB/L/pbl handbook/ B. The Conference Board - Employer Survey - Are they ready to Work? http://www.bic.org/index.php/sic/PB/L/pbl handbook/ B. The Conference Board - Employer Survey - Are they ready to Work? http://www.conference-board.org/Publications/describe.cfm/%d=1218 C. Washington State Report Card - OSPI web site - statistical data & downloads http://www.k12.wa.us/safs/PUB/PIN/0607/fs.asp D. State Board of Education - State by State Comparison - Oct 2009 A review of 21*century skills and state graduation requirements http://www.bic.us.org/in/publications/describes/publications/describes/publications/describes/publications/describes/publications/describes/publications/describes/publications/describes/publications/popts/sp F. 2 Million Minutes - The 21st Century Solution http://www.zmidio.org/publications/reports/MR535/index2.html@fn3 http://www.rand.org/publications/popts/popts/MR535/index2.html@fn3



About Cedar River Academy • K- 6 Private school - Enumclaw, WA Active Learning Model • Maintains 18:1 student to teacher ratio • Operates within OSPI per student distribution - under \$10,000 per student • Heterogeneous student body (N=50) - Diverse (social, economic and abilities) - Includes ELL, and learning disabilities • Maintain a 18:1 student to teacher ratio • Students Test academically advanced - ITBS - Expanded basics **Proposal Outline** A six year (joint public and private) project to monitor and report performance of a child-centered, constructive, and active learning school for pre-K through 12th grade -Would start with elementary grades and progress thru Secondary over a 6 year period -Project would be guided by an executive advisory board and jointly shared resources with Cedar River Academy (CRA) -Utilize your existing public school facilities and operate as a part of a local neighborhood school - operate within the State per student distribution of \$10,000 per student or less. **Project Deliverables** - Definitions of learning standards, student expectations, formative and summative assessments, learning continuums, student intervention plans, and professional development plans -Teacher training materials, model teacher profiles, teacher observation guidelines, and teacher evaluation guidelines -Operational performance reports to document the project's economic performance against objectives

learning performance against objectives

-Quarterly student and school performance reports to document student

- Observation laboratory used by interested public school administrators and teachers to observe on-line, and on-site, the school and instructional methods and processes

