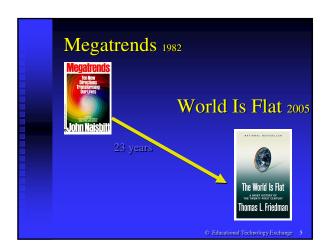
Designing 21st Century Schools Bob Hughes Kansas State High School Activities Association United School Administrators January 26, 2007

Other Trends: Ray Kurzweil - Author, Inventor, Entrepreneur, Futurist - BOOK - The Singularity is Near: When Humans Transcend Biology - Audio keynote — T+L 2006 - NSBA Conference (www.toysrbob.com)









Trends - Globalization of Jobs **India** (Bangalore) IRS 1040 forms processed for US accounting firms - 25,000 2004 - 100,000 - 400, 000 2005 70,000 accounting graduates per year 250,000 Call Center employees CAT scan/MRI interpreted Personal Assistant for \$1500 per month (B2K company) Trends - Globalization of Jobs "Natural talent has begun to trump geography" **Bill Gates** Chapter Six... Untouchables Highly Specialized skills: - Madonna, Elton John, Michael Jordan, J.K. Rowlings Localized – faces to face – "anchored" - Plumber, waitress, chef, lawyer, nurse, security, police, etc - Very large group of workers Old middle class jobs -- slowly going away due to "flatteners"

Trends - Globalization of Jobs

China (1.4 billion population)

- Produces 3.1m university graduates (US =1.3m)
- They will work at one fifth the wage of a US worker.
- In China Bill Gates is Britney Spears
 (in the US Britney Spears is Britney Spears)

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USA - Societal Trends

- Middle class is shrinking,
- Growth in number of industrialized nations.
- Everything from the neck down is moving toward minimum wage,
- Standard of living in US may be slipping...

More jobs, lower average pay

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What Skills Do Students Need?

What is a Knowledge Worker

Microsoft Corporation

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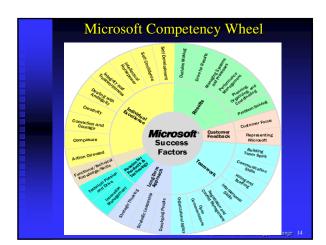
The Fundamentals

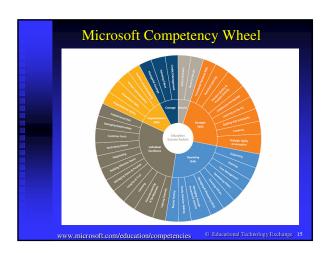
- The Basics
 - Reading, writing, and math skills
- Good work habits
 - Reliability, dependability, hard working
- Problem solving skills...
 - Approaches, as well as fearlessness
- Computers and technology

At least some exposure

(It matters for everyone)

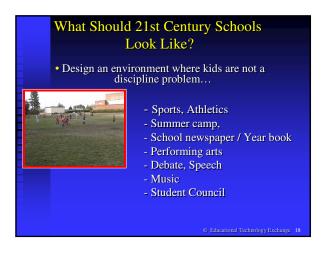
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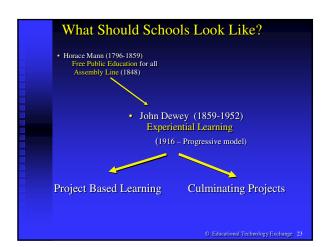
Skills for the 21st Century: Basic, scientific, & technology literacy Visual & information literacy Cultural literacy and global awareness Adaptability/managing complexity Curiosity, creativity & risk taking High order thinking & sound reasoning Teaming, collaboration & interpersonal skills Personal & social responsibility Interactive communication Prioritizing, planning and managing results Effective use of real-world tools Relevant, high quality products Sources www.ccoforum.org - Report 4 O Educational Technology Exchange 16

What Should 21st Century Schools Look Like?



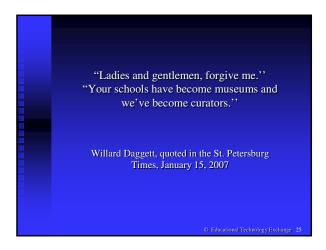
Skills for the 21st Century: • Basic, scientific, & technology literacy Skills for the 21st Century: · Basic, scientific, & technology literacy · Visual & information literacy Cultural literacy and global awareness · Adaptability/managing complexity • Curiosity, creativity & risk taking High order thinking & sound reasoning Teaming, collaboration & interpersonal skills Personal & social responsibility Prioritizing, planning and managing results Relevant, high quality products What Should Schools Look Like? • Bill & Melinda Gate's Foundation Small Schools Study http://www.gatesfoundation.org/Education/TransformingHighSchools/ Paul Allen Study - High Tech High - C.A.R.T. Center for Advanced Research and Technology

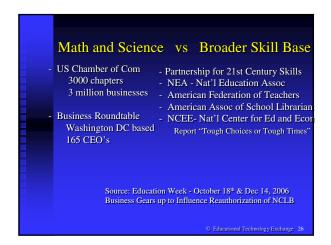


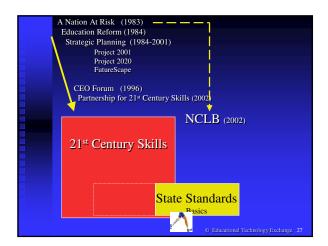


In the coming era, "...is it more important to have kids leave school with 21st century skills or to leave school having (state defined) minimum proficiency levels?"

Dr. Chris Dede,
Professor
Harvard Graduate School of Education
October 28, 2005 – T+L2 Conference Keynote







"We reformed the US Postal Service 40 years ago and now only at-risk mail goes through the post office." (...everything important goes FedEx, FAX, Airborne, UPS, etc.) Philip Schlechty, 1991 © Educational Technology Exchange 28 Resource List The World Is Flat – Thomas Friedman – 2005 – 479 pages
 Partnership For 21st Century Skills – Report "Results that Matter"
 http://www.21stcenturyskills.org/
 Cable in the Classroom – Spring 2006 – Threshold – Changing Course: New Thinking About High School Reform
 Schools D Schools - Philadelphia's School of the Future www.phila.k12.pa.us http://www.microsoft.com/education/schooloffuturedownloads.mspx -Chicago Academy High School - Chicago Academy High School
http://websiteworx.com/ChicagoAcademy/
- Digital Age Literacy – Lawrence Township, Indiana (16,000 students)
https://district.ltschools.org/initiatives/literacy.php
http://www.netri.com/Matrie Group (Cheryl Lemke)
- High Tech High – San Diego, CA – Charter School
http://www.hightechhigh.org/ Resource List George Lucas Educational Foundation - edutopia magazine http://www.edutopia.org/php/interview.php?id=art 977# Technology Access Foundation - Seattle Event last month w Ken Kay The Met- A network of 6 public high schools in metropolitan (Providence) http://www.themetschool.org/ Ray Kurzweil - Future trends Book "Sigularity is Near" Audio Keynote 11/9/06 – Dallas NSBA T+L Conference