

Culturally Responsive Pedagogy

by

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Some Interesting Tidbits...

The world is rapidly changing! The U.S. must produce students prepared to succeed in a diverse and global knowledge economy. Some interesting tidbits:

- 60 babies will be born in the U.S., 244 babies in China and 351 babies in India in the next eight minutes.
- In 2006 there were 1.3 million U.S. college graduates, 3.1 million college graduates in India and 3.3 million college graduates in China.
- Just 10 years ago many of today's majors were unheard of:
Ex: New Media, Organic Agriculture, e-business, Nanotechnology, Homeland Security etc.

Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (January, 2008) *Learning About Science, Technology, Engineering, and Mathematics: Assessing the State of STEM Education in Colorado*, Denver, CO. *As adapted from a PowerPoint presentation developed by Karl Fisch, Director of Technology at Arapahoe High School, Littleton Public School District with assistance from Scott McLeod.

More Interesting Facts...

- By the age of 38 today's learner will have 10-14 jobs.
- Over 50% of 21-year-olds in the U.S have created web content and over 70% of 4-year olds have used a computer.
- The Internet exploded onto the world scene in 1995 and since then it has grown exponentially. New technical information is currently doubling every two years and by 2010 it will double every 72 hours. An estimated 40 exabytes (4.0×10^{19}) of new information globally will be produced this year, which is more than the previous 5,000 years combined!

Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (January, 2008)
Learning About Science, Technology, Engineering, and Mathematics: Assessing the State of STEM Education in Colorado, Denver, CO. *As adapted from a PowerPoint presentation developed by Karl Fisch, Director of Technology at Arapahoe High School, Littleton Public School District with assistance from Scott McLeod.

What is Culturally Responsive Pedagogy?

“Teachers see diversity as an asset. Have high expectations for every learner. Provide appropriate support to students.”

Three Keys

- Diversity as an asset
- High expectations for every learner
- Appropriate student support.

Colorado's Education Pipeline

For every 100 Ninth-Graders...

- 79 finish high school
- 43 go straight to college
- 29 return to college the second year and;
- 13 graduate with a post-secondary degree



Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (March, 2008) *Report Card for Colorado's P-20 Public Education System (Preschool through Postsecondary for the period ending December 31, 2007)* Denver, CO.

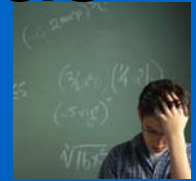
Colorado K-12 Education by Subject

Math

- The percentage of students earning advanced on 8th grade math NAEP (2007) is 9.5% giving CO the 6th highest national ranking . The national average is 6.6%.
- The percentage of 8th grade students scoring proficient in NAEP math assessment (2007) is 37% ranking CO the 12th highest in the nation. The national average is 31%.
- The math gap-8th grade NAEP scale score difference between lower-income students and their financially better off peers (2007) is 28 which ranks Colorado 46th nationally. The national average is 26.

Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (March, 2008) *Report Card for Colorado's P-20 Public Education System (Preschool through Postsecondary for the period ending December 31, 2007)* Denver, CO.

Nationally Girls Perform Just as Well as Boys in Math



- New research published in the journal Science found that girls perform just as well as boys on standardized tests from grades 2-11. The research was based on test scores from 7.2 million students in 10 states who took math tests from 2005 to 2007 as part of the No Child Left Behind (NCLB) initiative.
- Analysis of the National Assessment of Education Progress (NAEP) data also bears out the conclusion that there is virtually no gender difference when it comes to complex reasoning skills.

Source: Hansen, Wendy (2008). "Equal Sign of the Times." The Denver Post. 25 July 2008. Retrieved July 28, 2008 from http://www.denverpost.com/headlines/ci_9989248.

Colorado K-12 Education by Subject

Reading

- Thirty-seven percent of 4th graders scored proficient in the NAEP reading assessment (2007) ranking Colorado 13th nationally. The national average was 32%.
- Reading Gap-4th grade NAEP scale score difference between low-income students and their financially better off peers is 28 ranking Colorado 42nd nationally. The national average is 27.

Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (March, 2008) *Report Card for Colorado's P-20 Public Education System (Preschool through Postsecondary for the period ending December 31, 2007)* Denver, CO.

Colorado K-12 Education by Subject

Expenditures

- In 2005 the amount of disparity in spending among state districts (lower value signifies greater equity) in Colorado was .128. Nationally it was .147 ranking Colorado 19th in the nation.
- 2005 adjusted per-pupil expenditures (adjusted for regional cost differences) in Colorado was \$7,939 and nationally it was \$8,973 which ranks Colorado 33rd nationally.
- 2005 state expenditures on K-12 education as percent of state taxable resources was 3% in Colorado and 3.6% nationally. This ranks Colorado 43rd in the nation.

Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (March, 2008) *Report Card for Colorado's P-20 Public Education System (Preschool through Postsecondary for the period ending December 31, 2007)* Denver, CO.

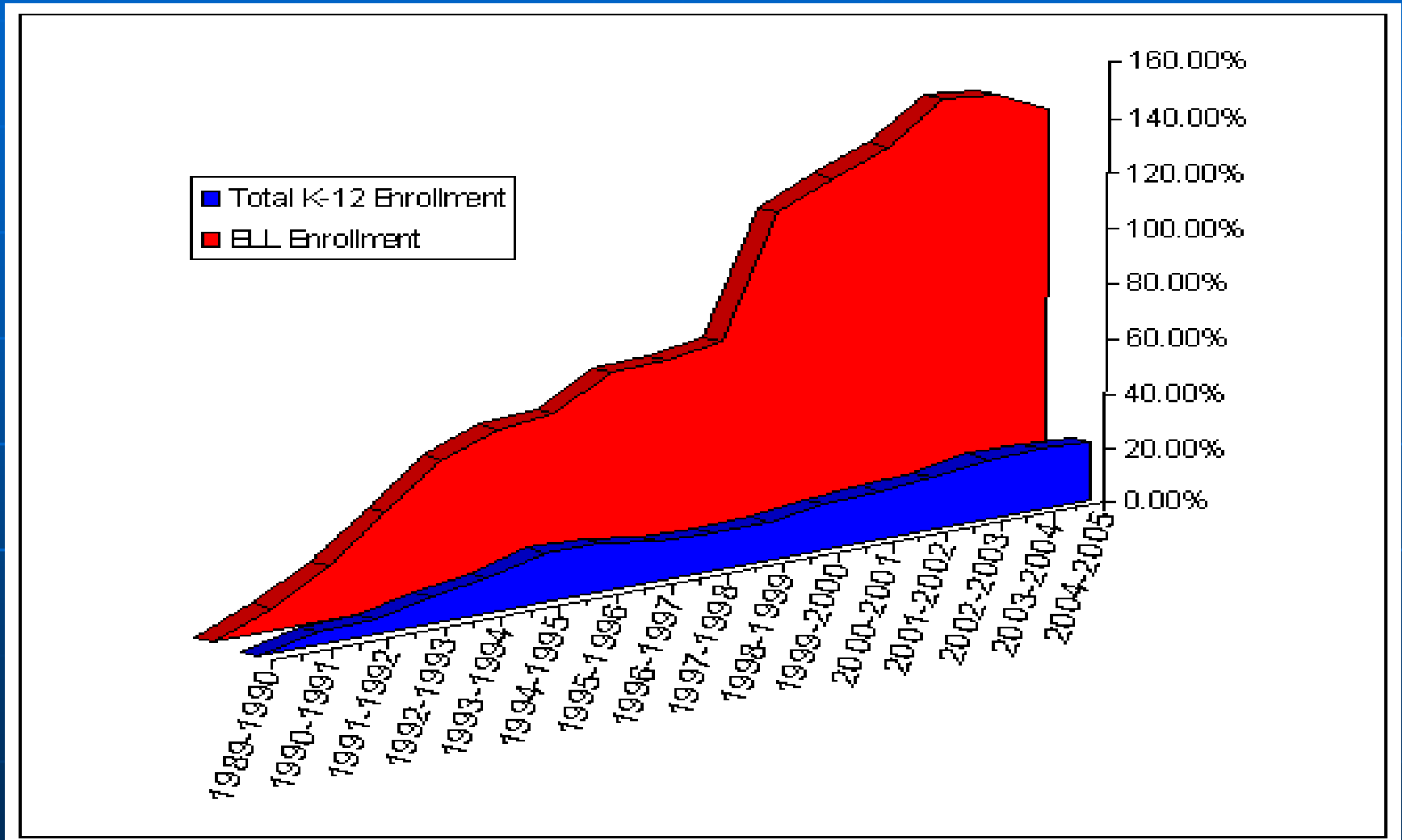
Colorado K-12 Education by Subject

Other Measures of Excellence:

- 2007 AP scores of 3 or higher per 100 graduating seniors is 19 in Colorado and 15 nationally. This places Colorado 10th nationally.
- Class of 2004 High School graduation rate in Colorado was 74.6% and 69.9% nationally. This ranks Colorado 21st nationally.

Source: Center for Education Policy Analysis, School of Public Affairs, University of Colorado Denver. (March, 2008) *Report Card for Colorado's P-20 Public Education System (Preschool through Postsecondary for the period ending December 31, 2007)* Denver, CO.

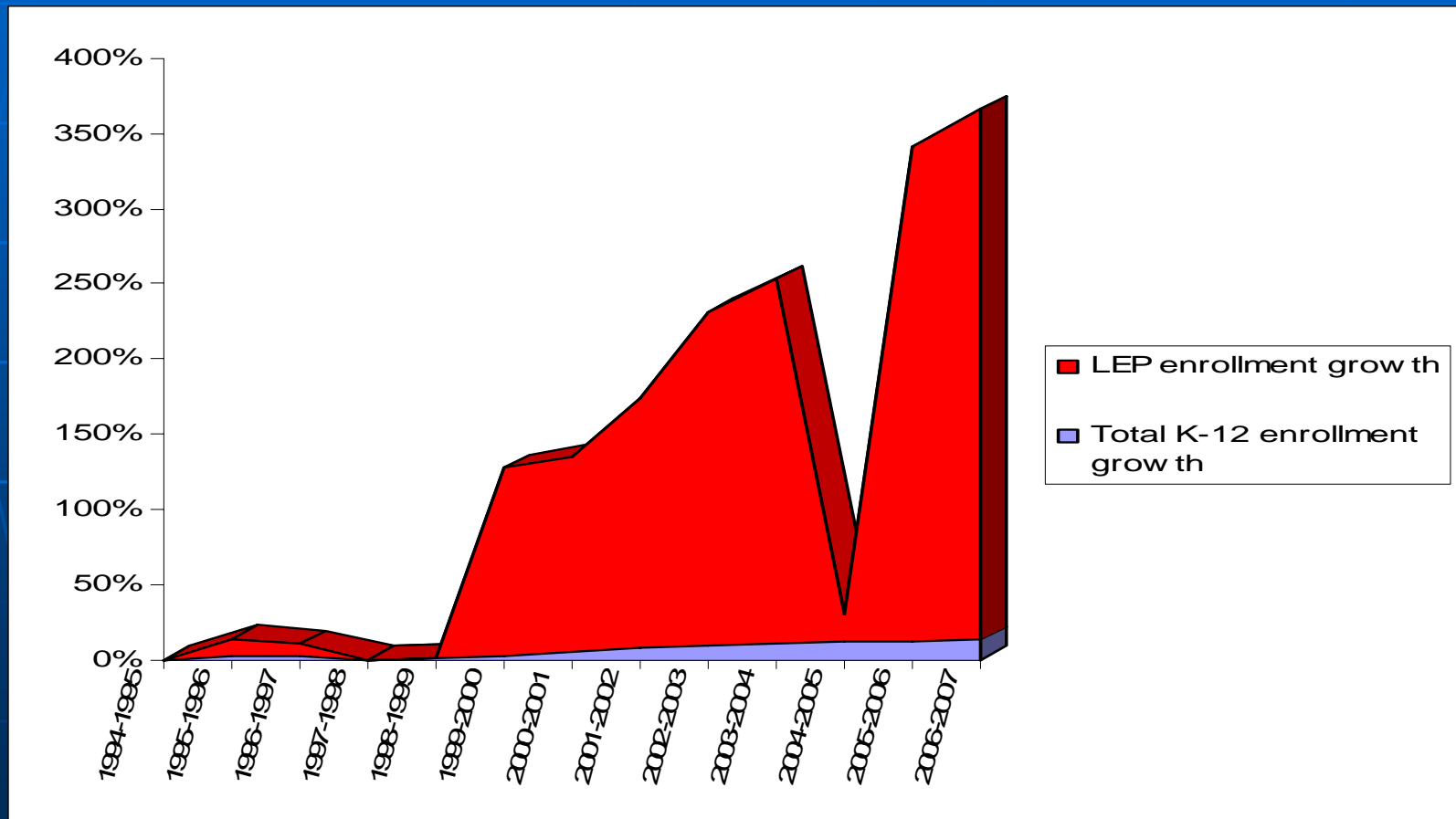
Relative Growth in ELL and Total Enrollment in U.S. Schools, 1989-90 to 2004-2005 *



* SOURCE: U.S. Department of Education's survey of the states' limited English proficient students and available educational programs and services, 1991-92 through 2001-2002 summary reports. Supplemented by state publications (1998-99 data), enrollment totals from the National Center for Education Statistics (NCES), 2004-2005 Consolidated State Performance Reports, and data reported by states. 12

ELL Growth rate in Colorado

Colorado's Rate of LEP Growth 1994/1995-2006/2007 *



* SOURCE: U.S. Department of Education's survey of the states' limited English proficient students and available educational programs and services, 1991-92 through 2001-2002 summary reports. Supplemented by state publications (1998-99 data), enrollment totals from the National Center for Education Statistics (NCES), 2004-2005 Consolidated State Performance Reports, and data reported by states.

Think, Pair, Share

- 1) Think about the implications of the data you just heard on your own for 2 minutes.
- 2) Share your thoughts with the person next to you.
- 3) Group share, time permitting.

How Do We See & Act as if Diversity is an Asset?

- What is the most limiting factor?

At the classroom level?

At the building level?

At the district level?

If we were to act culturally responsive what would it look like?



At the classroom level?

At the building level?

At the district level?

Contact Information

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For a copy of this presentation please visit the Colorado Department of Education's Language, Culture and Equity Website at:

http://www.cde.state.co.us/cde_english/elau_links.htm