

Math Matters
 Tom White
 MIEM Math Summit
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What Will 21st Century Students be Doing?

- Selling to the World
- Buying from the World
- Working for International Companies
- Managing Employees from Other Cultures
- Solving Global Problems

Vivian Stewart, the Asia Society

Key Questions?

- What will the world be like?
- What skills do our students need to be successful?
- How well are we providing them?
- How can we improve?

If we shrank the world population to 100...

- 61 Asians
- 13 Africans
- 12 European
- 5 US
- 1 Australian
- 9 Others

Why Does Math Matter?

1. Correlates with college attendance and success
2. Correlates/causation with higher earnings
3. Good jobs of the future will generally require more sophisticated analytic skills

Broader Skill Set = Broader Opportunities

The Percentage of Students by Level of Math Attainment who Earn an Associate's or Bachelor's Degree

7% Vocational Math Students
 13% Pre Algebra Students
 45% Intermediate Algebra Students

Earn either an Associate's or Bachelor's Degree

Programme for International Student Assessment (PISA)

US students ranked 24th of 29 in Math
26% fell in bottom 2 categories compared to 19% average internationally

Good News

- US Math Improved from 1995 to 2007
 - Avg. 4th Grade Score Up 11 points
 - Avg. 8th Grade Score Up 16 points
- US Scores were
 - 9th of 35 Countries for 4th Grade
 - 6th of 47 Countries for 8th Grade

Trends in International Math and Science Study (TIMSS)

- Is Change Inevitable?
- Is Change Needed?

Questions????

- Re-Imagine Math Education – Based on Data and Research
- Greater Help Where Greatest Need
- Don't Lose Creative Edge
- Connect Math to Application and Real World Problem Solving
- Focus on Students

Answers????

YOU MAKE THE DIFFERENCE!