U.S.:

53% of Recent College Grads Are Jobless or Underemployed *The Atlantic* April 23, 2012

http://www.theatlantic.com/business/archive/2012/04/53-of-recent-college-grads-are-jobless-or-underemployed-how/256237/

Korea:

Skip College Is Top Advice for World-Beating Koreans Business Week. September 12, 2012

http://www.businessweek.com/news/2012-09-11/skip-college-is-top-advice-for-world-beating-south-koreans-jobs

China:

570,000 graduates unemployed, and Why so? Sina, June 12, 2012

http://english.sina.com/china/2012/0611/475714.html

Spain:

Desperation, anger grows for Spanish youth, with 51 percent unemployed CBS Evening News, June 9, 2012

http://www.cbsnews.com/8301-18563_162-57449322/desperation-anger-grows-for-spanish-youth-with-51-percent-unemployed/

South Africa:

Young, jobless and desperate – Degrees with no guarantees City Press, June 16, 2012

http://www.citypress.co.za/SouthAfrica/News/Young-jobless-and-desperate-Degrees-with-no-guarantees-20120616

Individual differences Multiple intelligences

Cultural diversity
Curiosity, passion, creativity

Schooling

Employable skills

The Known Knowns

Human nature: Diversity

The economy: Changed

Information: Everywhere

The world: Globalized

Global Education Reform Movement

GERM

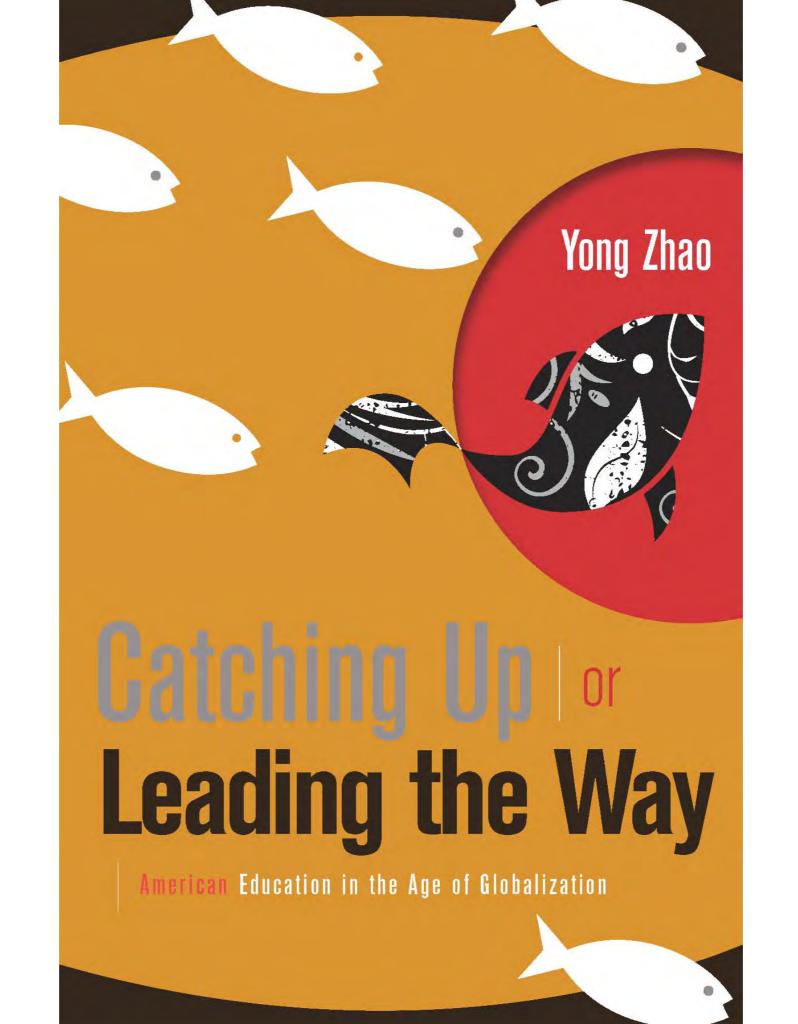
http://zhaolearning.com



@YongZhaoUO

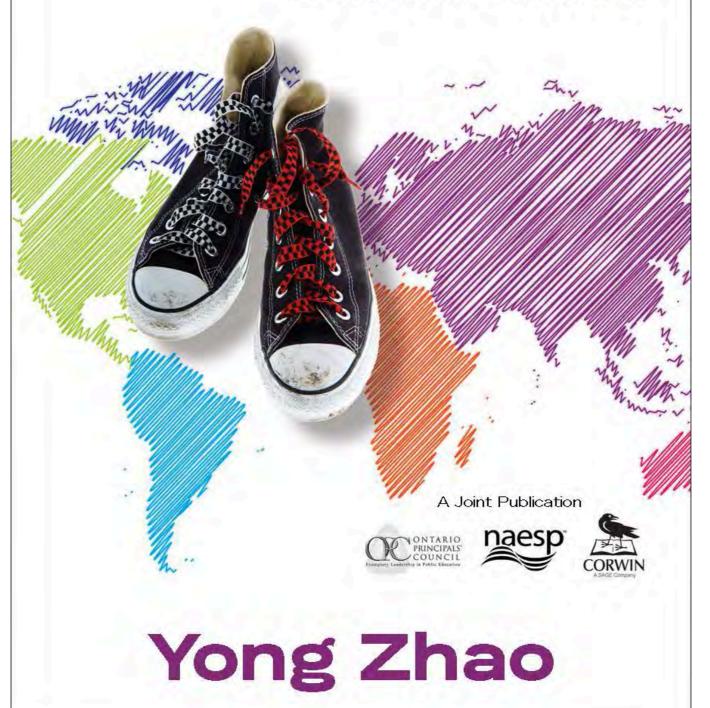


http://www.facebook.com/yongzhao.uo



World Class Learners

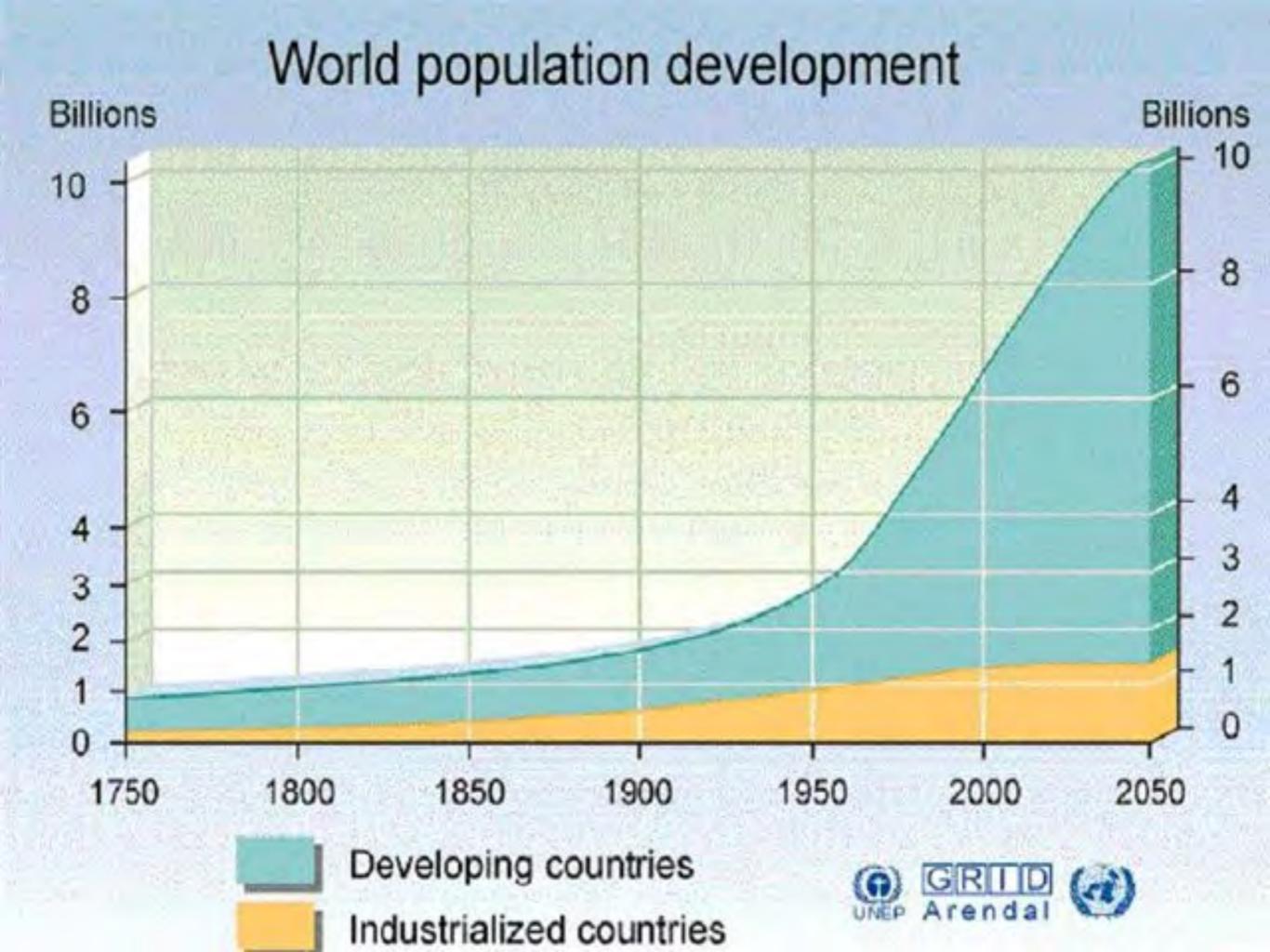
Educating Creative and Entrepreneurial Students



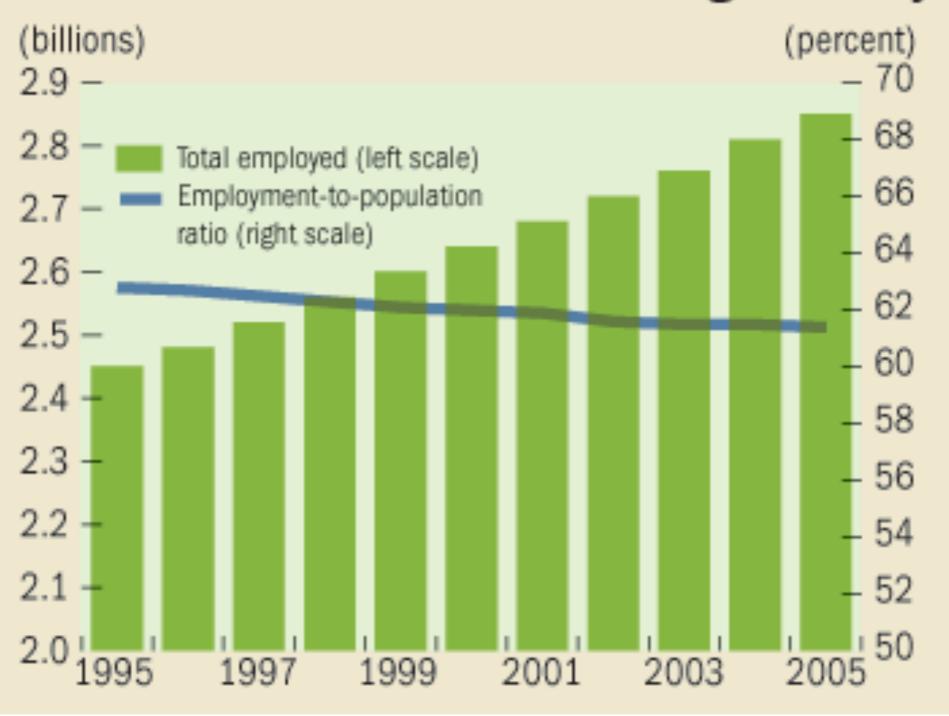
The future: The Age of Globalization



The stone age did not end because they ran out of stones



The world's workforce is rising steadily . .



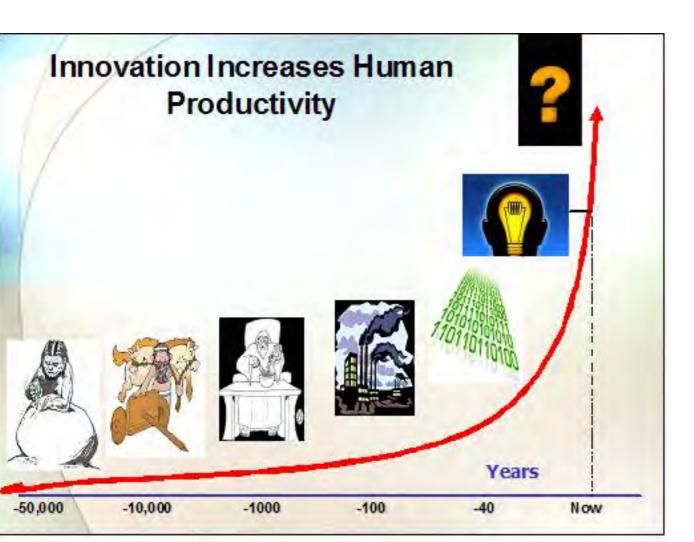
2005

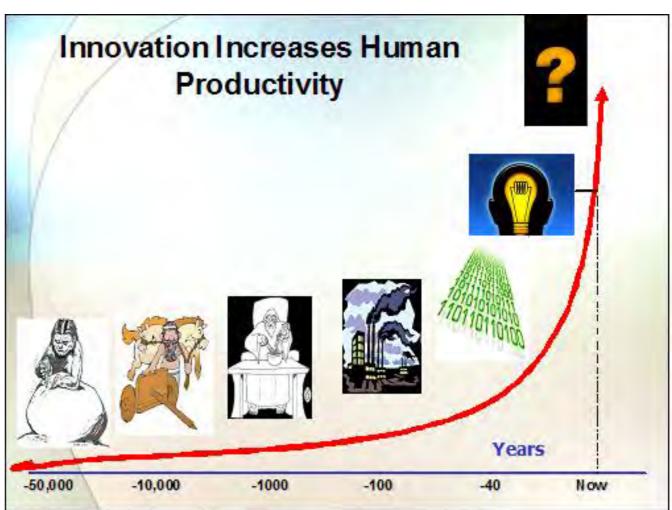
To create the same value in the U.S., it takes...

1970

1940



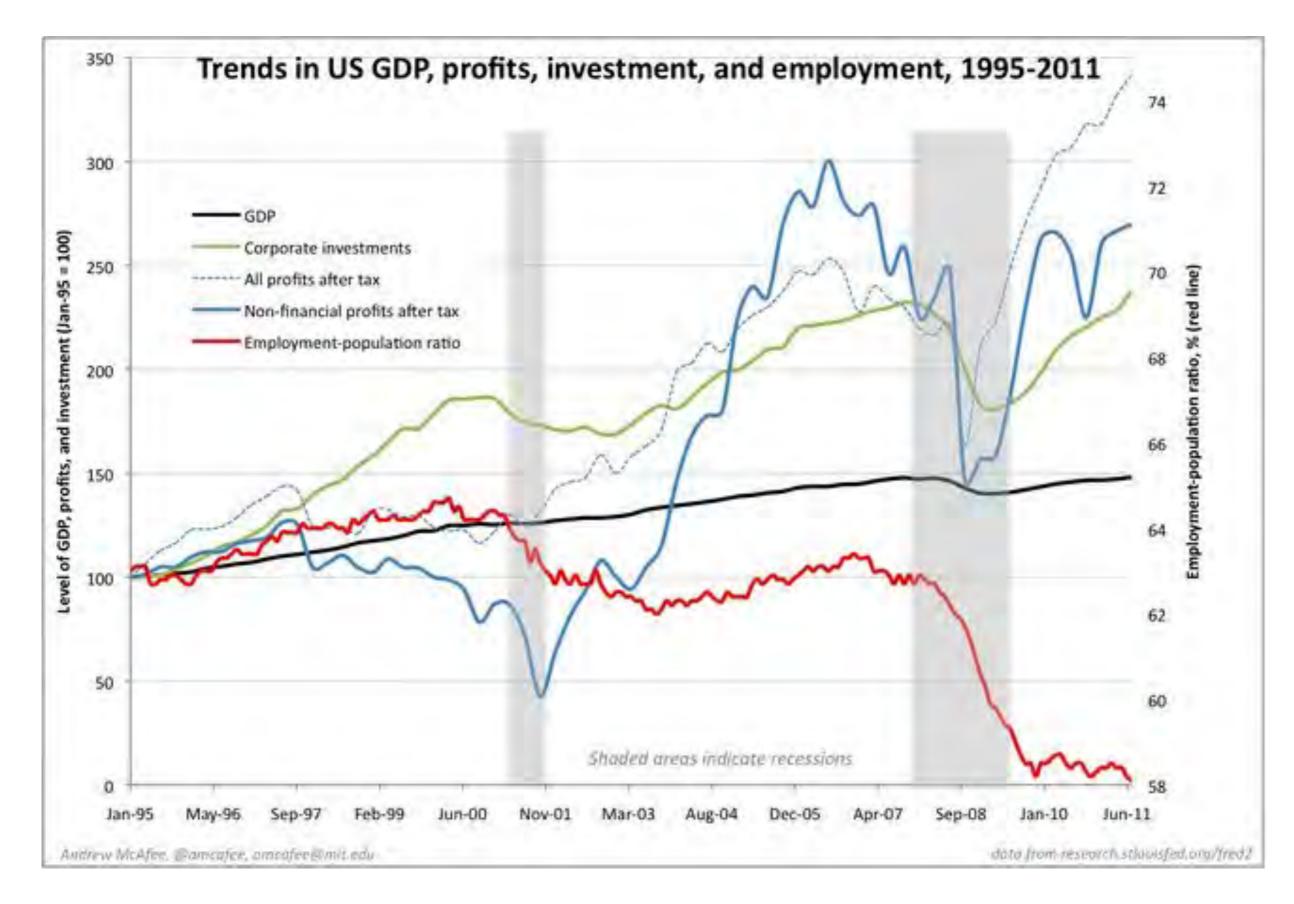




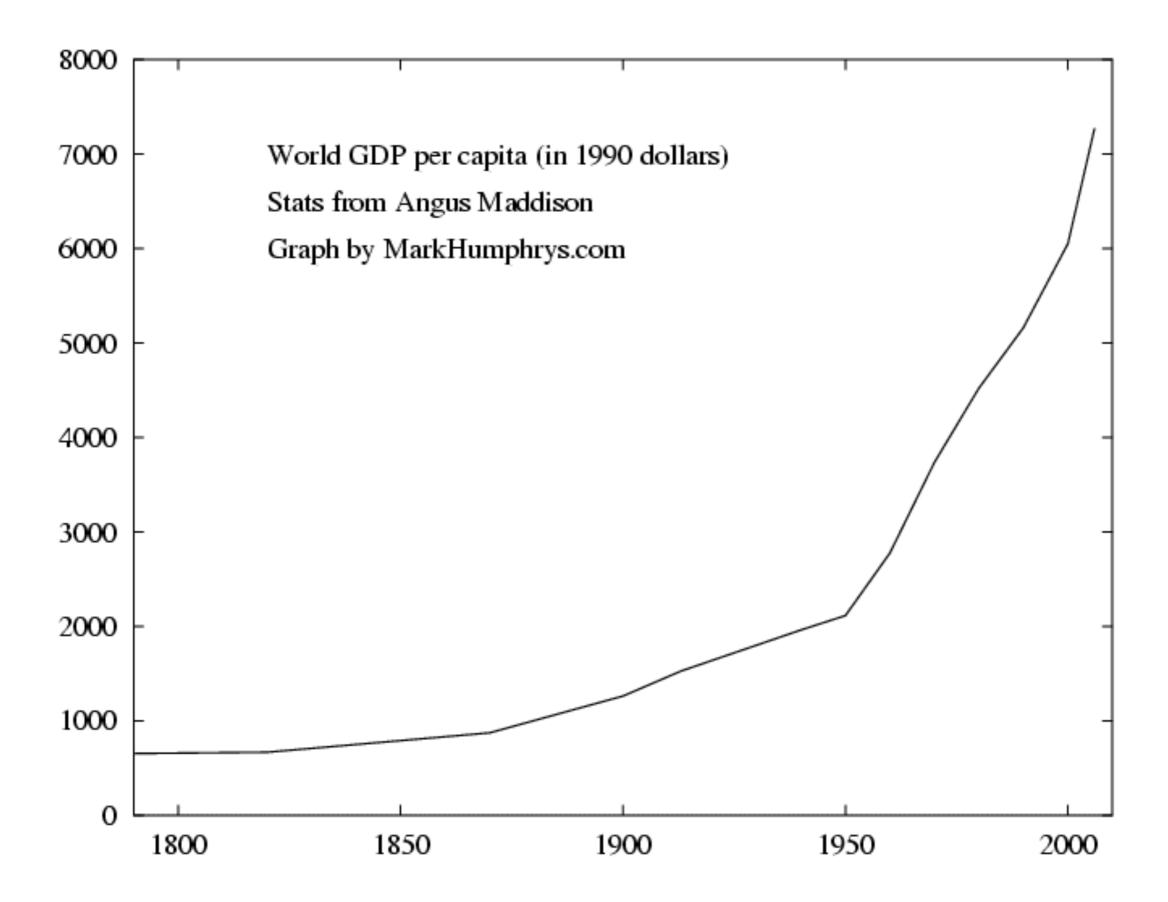
U.S. Manufacturing: Output vs. Jobs January 1972 to August 2010



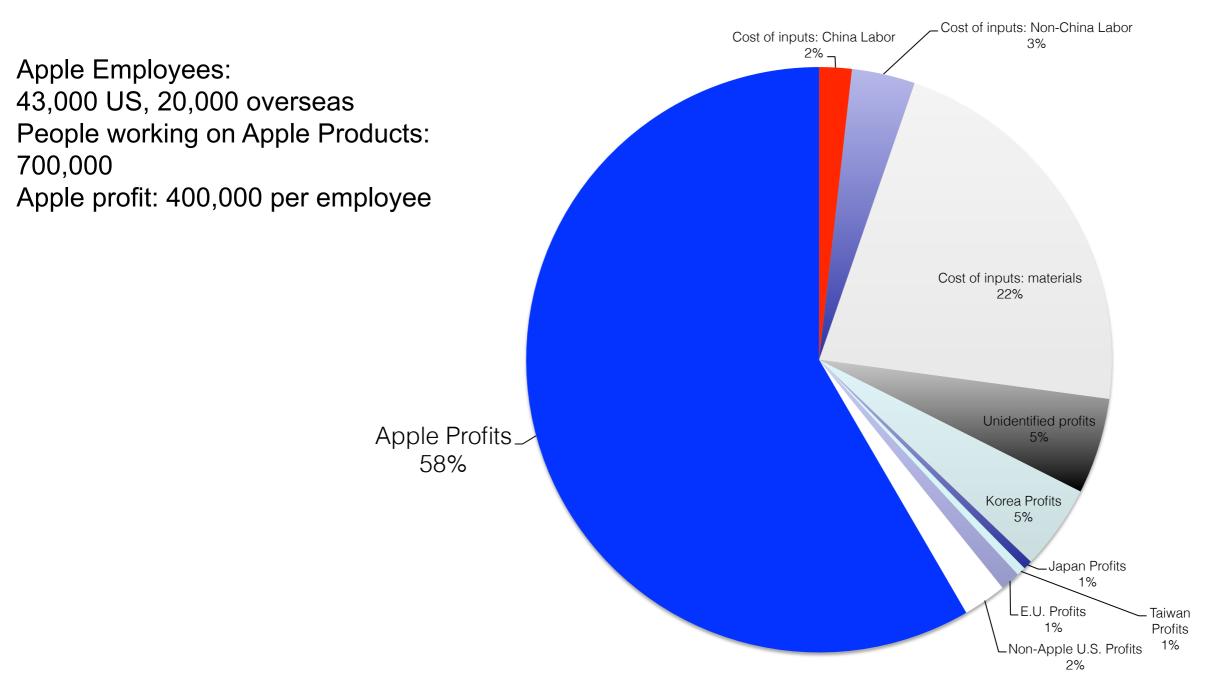
http://www.dailymarkets.com/economy/2010/10/03/increases-in-u-s-worker-productivity-more-than-chinas-currency-responsible-for-loss-of-u-s-jobs/



http://campaignstops.blogs.nytimes.com/2012/07/08/the-future-of-joblessness/



Distribution of Value for iPhone 2010



Kraemer, K. L., Linden, G., & Dedrick, J. (2011). *Capturing Value in Global Networks: Apple's iPad and iPhone*. Irvine, CA: Personal Computer Industry Center, UC-Irvine.

Employees ---- Entrepreneurs

Mass Entrepreneurship

Business entrepreneurs
Social entrepreneurs
Intrapreneurs
Policy entrepreneurs

Entrepreneurial Qualities

Confidence

Friends

Risk-taking

Passion

Creativity

Alertness to opportunity

Global competency

Uniqueness

Empathy

Individual differences Multiple intelligences

Cultural diversity
Curiosity, passion, creativity

Schooling

Employable skills

Side Effects

Drug Facts

Active ingredient (in each tablet)

Purpose

Chlorpheniramine maleate 2 mg.....

.Antihistamine

Uses temporarily relieves these symptoms due to hay fever or other upper respiratory allergies: ■ sneezing ■ runny nose ■ itchy, watery eyes ■ itchy throat

Warnings

Ask a doctor before use if you have

■ glaucoma ■ a breathing problem such as emphysema or chronic bronchitis

trouble urinating due to an enlarged prostate gland

Ask a doctor or pharmacist before use if you are taking tranquilizers or sedatives

When using this product

■ drowsiness may occur
■ avoid alcoholic drinks

alcohol, sedatives, and tranquilizers may increase drowsiness

■ be careful when driving a motor vehicle or operating machinery

excitability may occur, especially in children

If pregnant or breast-feeding, ask a health professional before use.

Keep out of reach of children. In case of overdose, get medical help or contact a Poison Control Center right away.

Directions

adults and children 12 years and over	take 2 tablets every 4 to 6 hours; not more than 12 tablets in 24 hours
children 6 years to under 12 years	take 1 tablet every 4 to 6 hours; not more than 6 tablets in 24 hours
children under 6 years	ask a doctor

Drug Facts (continued)

Other information ■ store at 20-25°C (68-77°F) ■ protect from excessive moisture

Inactive ingredients D&C yellow no. 10, lactose, magnesium stearate, microcrystalline cellulose, pregelatinized starch

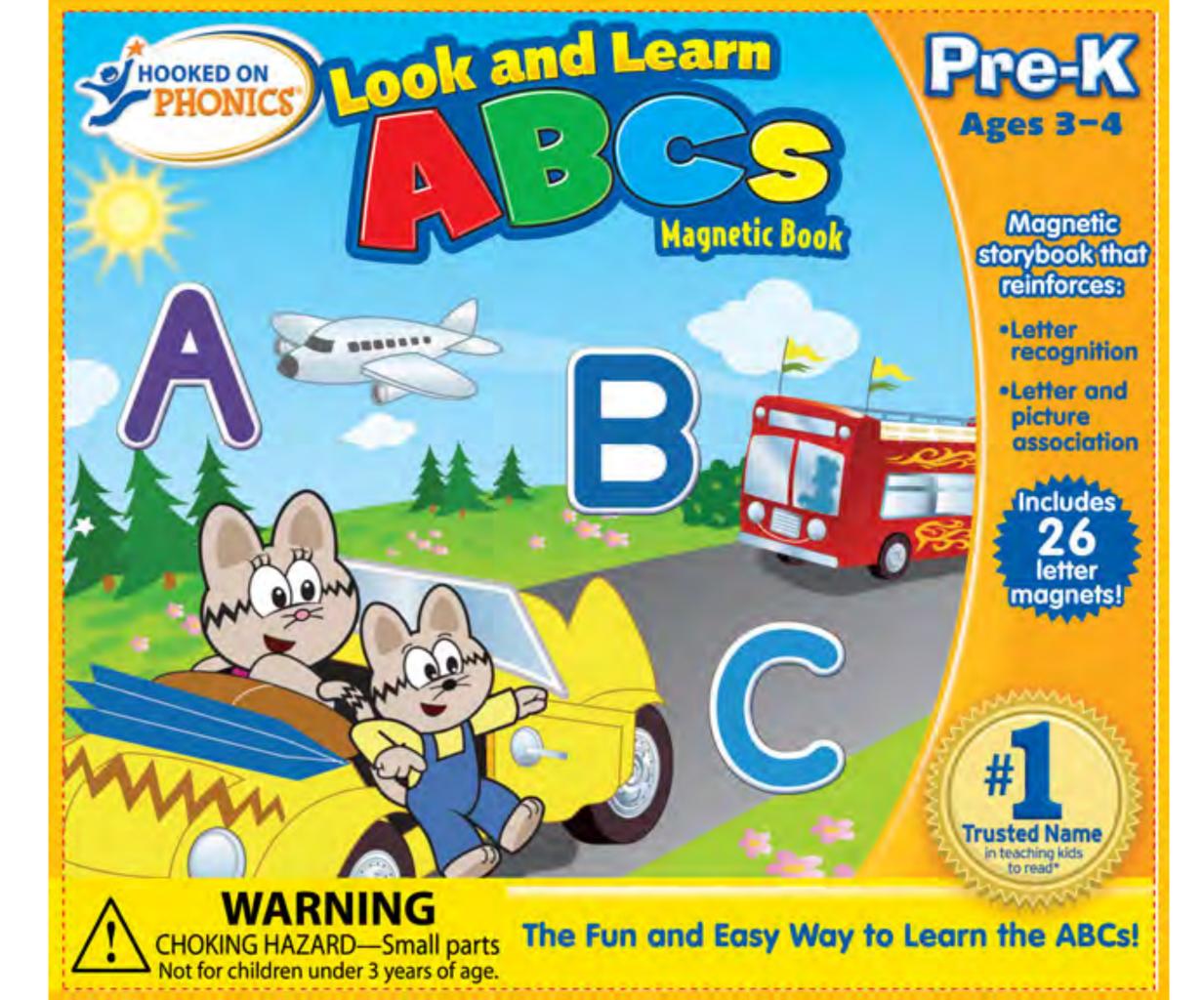
THIS MEDICINE MAY AFFECT MENTAL ALERTNESS AND/OR COORDINATION.

IF AFFECTED, DO NOT DRIVE A MOTOR VEHICLE OR OPERATE MACHINERY.



THIS MEDICINE MAY CAUSE DROWSINESS AND MAY INCREASE THE EFFECTS OF ALCOHOL. IF AFFECTED DO NOT DRIVE A MOTOR VEHICLE OR OPERATE MACHINERY.



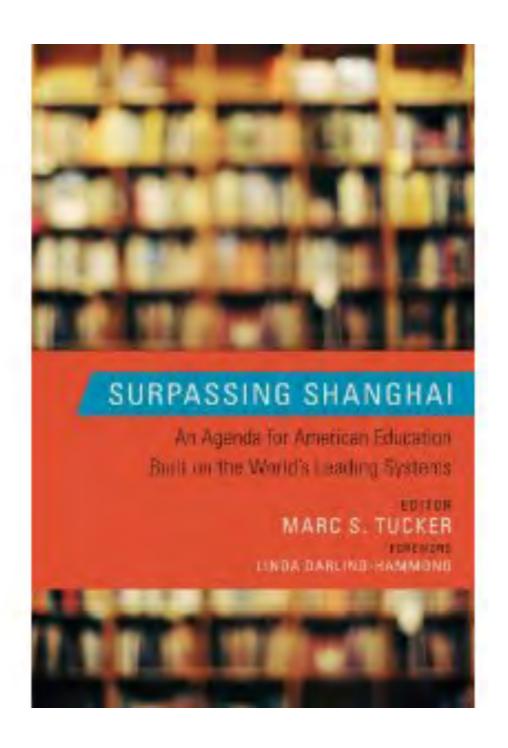


Why Didn't China Have a Big Party?

Sciences Math Reading Shanghai, China Shanghai, China Shanghai, China **(***** South Korea **Finland** Singapore S * Hong Kong, China Hong Kong, China **Finland (**** S South Korea Hong Kong, China Singapore **(**;;; Taiwan Singapore Japan **Finland** South Korea Canada Liechtenstein **New Zealand New Zealand** Switzerland Canada Japan Japan Estonia Australia Canada Netherlands Australia

http://www.oecd.org/dataoecd/54/12/46643496.pdf

Arne Duncan: "A wake-up call"



Barack Obama: "A Sputnik moment"

A Grattan Institute report, to be released today, shows Australian performance has slipped since 2000, with maths students now more than two years behind children in Shanghai and one to two years behind children in Hong Kong, Singapore and South Korea.

--Sydney Morning Herald, 02-17-2012

http://www.smh.com.au/national/education/australian-students-lag-asia-by-three-years-20120216-1tbt8.html#ixzz1me2MH9mL

We've become a nation of wusses. The Chinese are kicking our butt in everything. If this was in China do you think the Chinese would have called off the game? People would have been marching down to the stadium. They would have walked and they would have been doing calculus on the way down...

--Former Pennsylvania Governor Ed Rendell on the rescheduling of an NFL game, 2010 http://voices.washingtonpost.com/44/2010/12/ed-rendell-were-a-nation-of-wu.html

I am happy to confess I'd like us to implement a cultural revolution just like the one they've had in China...Like Chairman Mao, we've embarked on a Long March to reform our education system.

--Michael Gove, British Secretary of State for Education
http://www.telegraph.co.uk/education/8227535/Michael-Gove-my-revolution-for-culture-in-classroom.html

Qian Xuesheng: "Why doesn't China have great talents?"



Wen Jiabao: "China must have entrepreneurs like Steve Jobs"

Kai-fu Lee: The next Apple or Google will appear, but not in China... unless it abolishes its education.

Real Dragon or Paper Tiger: Patent filings in 2008

U.S.A. 400,769 filings Japan 502,054 filings China 203,481 filings Europe 14,525 filings U.S.A. 14,399 filings Japan 13,446 filings China 473 filings

In 2010 China accounted for

20% of the world's population 9% of the world's GDP 12% of the world's R&D expenditure 1% of the patent filings with or patents granted by any of the leading patent offices outside China. 50 % of the China-origin patents were granted to subsidiaries of foreign multinationals

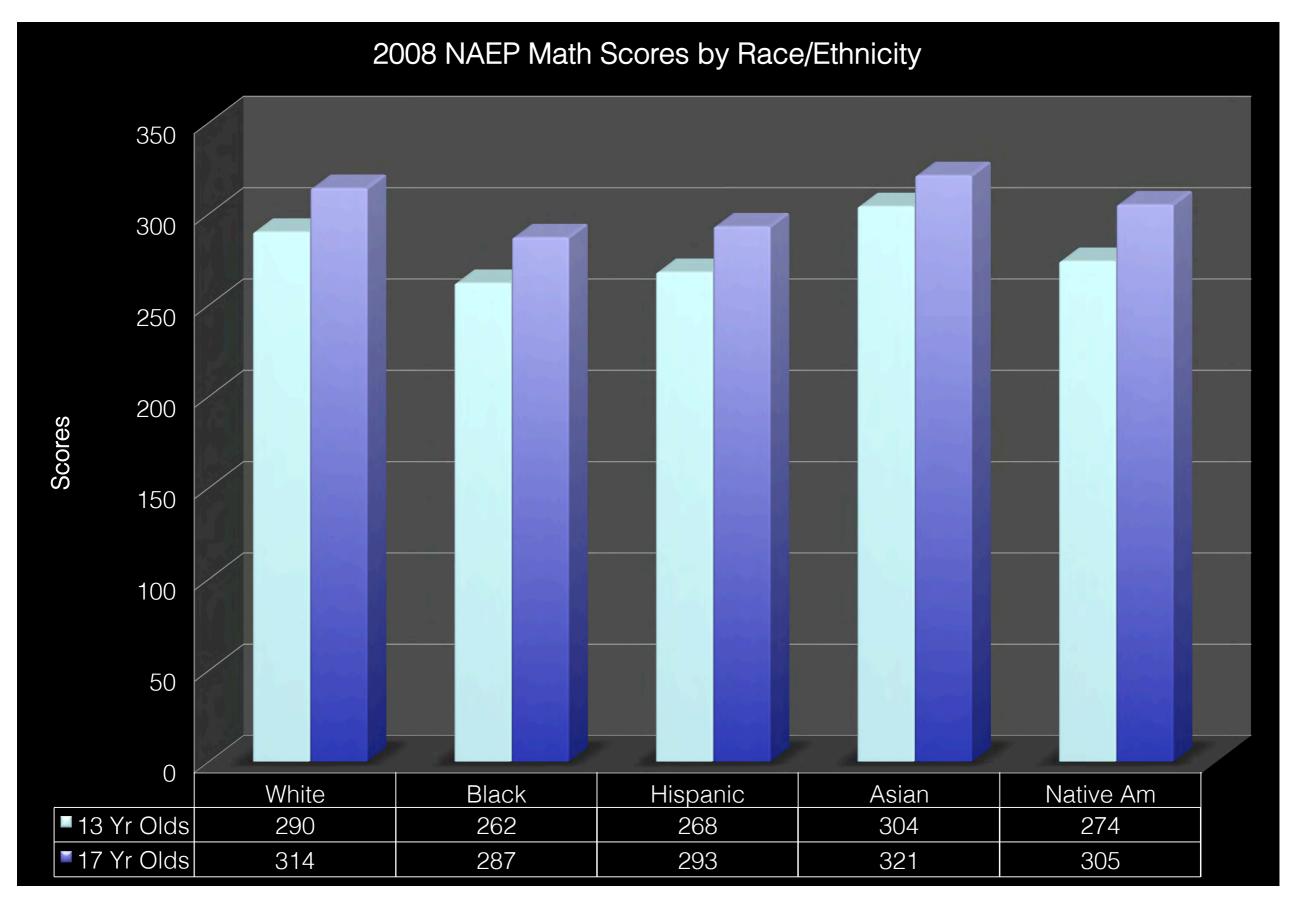
> Source: Chinese Innovation is a Paper Tiger http://online.wsj.com/article/ SB10001424053111904800304576472034085730262.html?mod=googlenews_wsj



Steve Wozniak: Apple couldn't emerge in societies like Singapore where 'bad behavior is not tolerated' and people are not taught to think for themselves.

Alexis Ong: Wozniak's comments are really a scathing indictment of the Singapore education system, its strictly regimented curriculum and by-rote study techniques that sustain the city's "formal culture."

Why Aren't the Model Minority Happy?



Asian Americans

- 5% of the US population
- 15 to 25% of Ivy League enrollment
- 24% at Stanford
- 46% at UC Berkeley
- 64 percent of Asians versus 52 percent for Caucasians want to hold top positions
- 2% of total 5,520 board seats of the Fortune 500 (98 of them have Asians on their board)

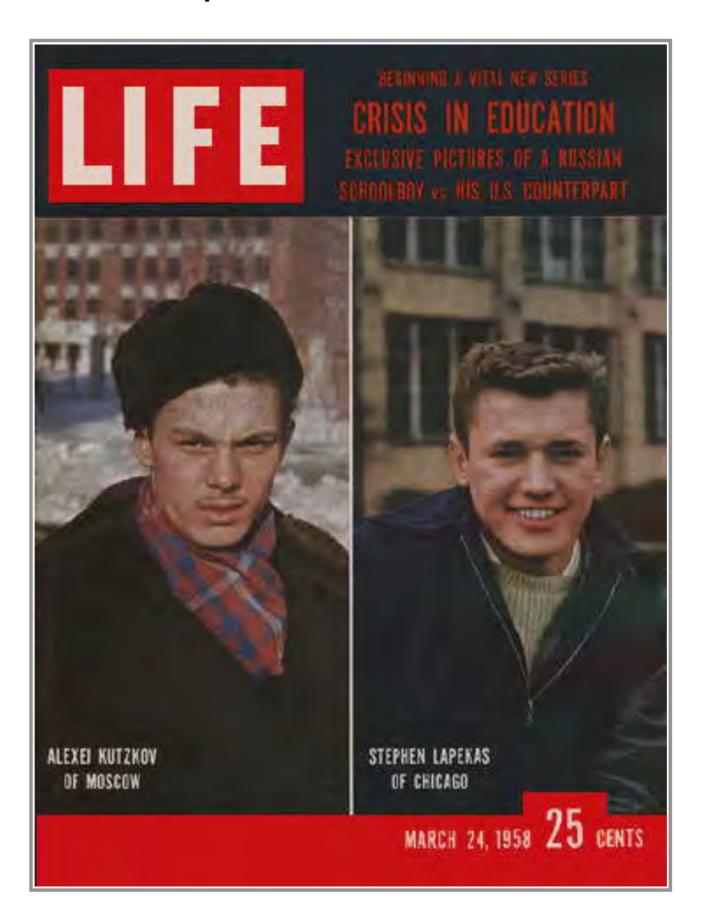
http://www.worklifepolicy.org/documents/TopAsianTalent_PressRelease_7.20.11.pdf http://aapress.com/business/report-only-96-asians-hold-fortune-500-board-seats/

Why Is the U.S. Still Here?

Alexei vs Stephen: Curriculum and Time

Inside photos showed Alexei doing complicated experiments in physics and chemistry and reading aloud from *Sister Carrie*.

1958



Stephen, by contrast, retreated from a geometry problem on the blackboard and the caption advised, "Stephen amused class with wisecracks about his ineptitude." Seated at a typewriter in typing class, Stephen tells us "I type about one word a minute."



To Glenn Seabora
With apprecia

1983 Japan

Our Nation is at risk. Our once unchallenged preeminence in commerce, industry, science, and technological innovation is being overtaken by competitors throughout the world.

the educational foundations of our society are presently being eroded by a rising tide of mediocrity that threatens our very future as a Nation and a people.

We are raising a new generation of Americans that is scientifically and technologically illiterate.

Elephant vs. doctor: Aspirations













2 Million Minutes

Bob Compton

Source: http://www.2mminutes.com/pressblog6.html

A Long History of Bad Test-takers

• 1960s

- FIMS: 12th out of 12 countries
- FISS: 14th out of 18 countries

1970s/1980s

- SIMS: 12, 14, 12, 12out of 15 (number systems, algebra, geometry, calculus)
- SISS: 14th (biology), 12th (chemistry), 10th (physics) out of 14

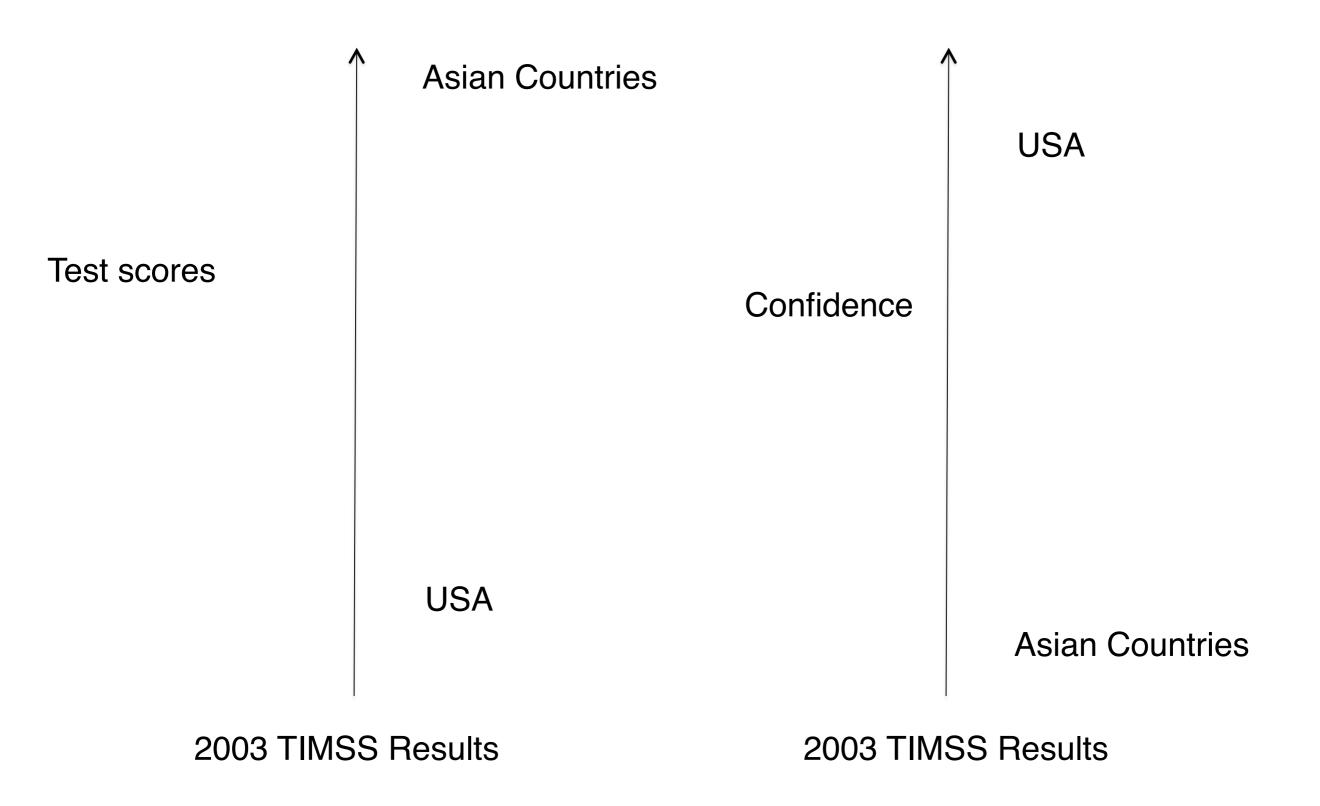
1990s—2007: TIMSS (8th graders)

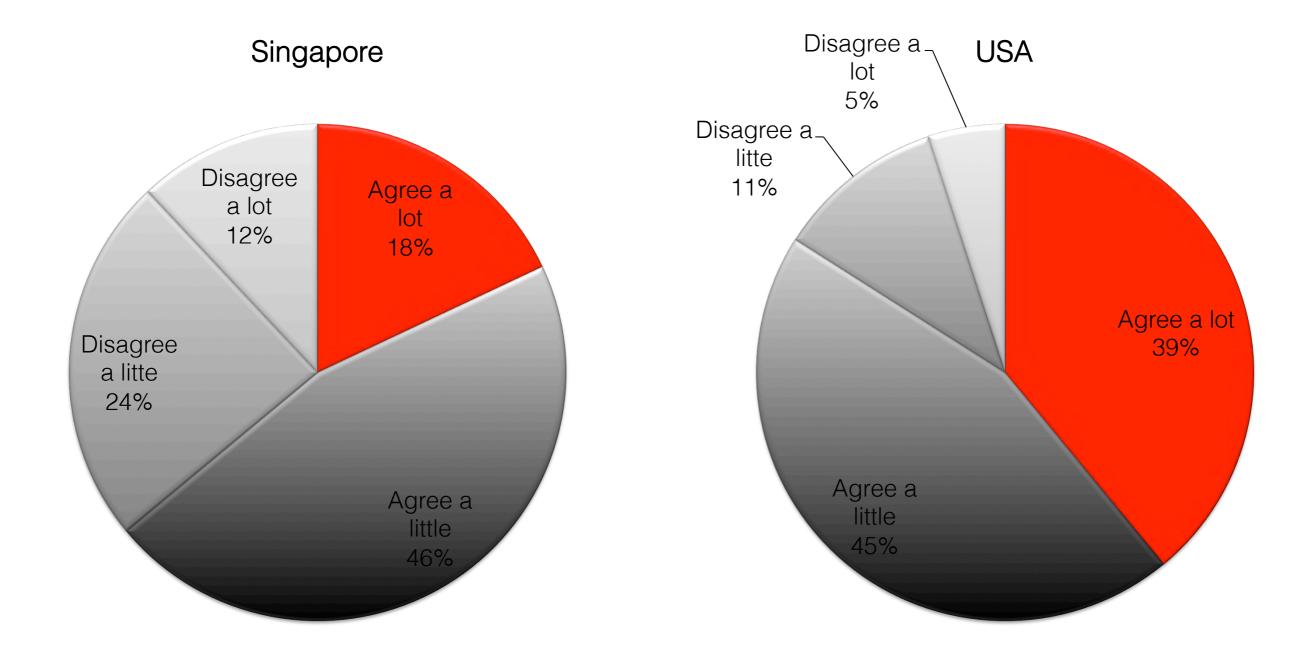
- 28th out of 42 in 1995
- 15th in 2003
- 9th in 2007

...America still has the largest, most prosperous economy in the world. (Applause.) No workers -- no workers are more productive than ours. No country has more successful companies, or grants more patents to inventors and entrepreneurs. We're the home to the world's best colleges and universities, where more students come to study than any place on Earth.

-- President Obama, 2011 State of the Union Address

Possible Explanations





Responses to "I usually do well in Math"

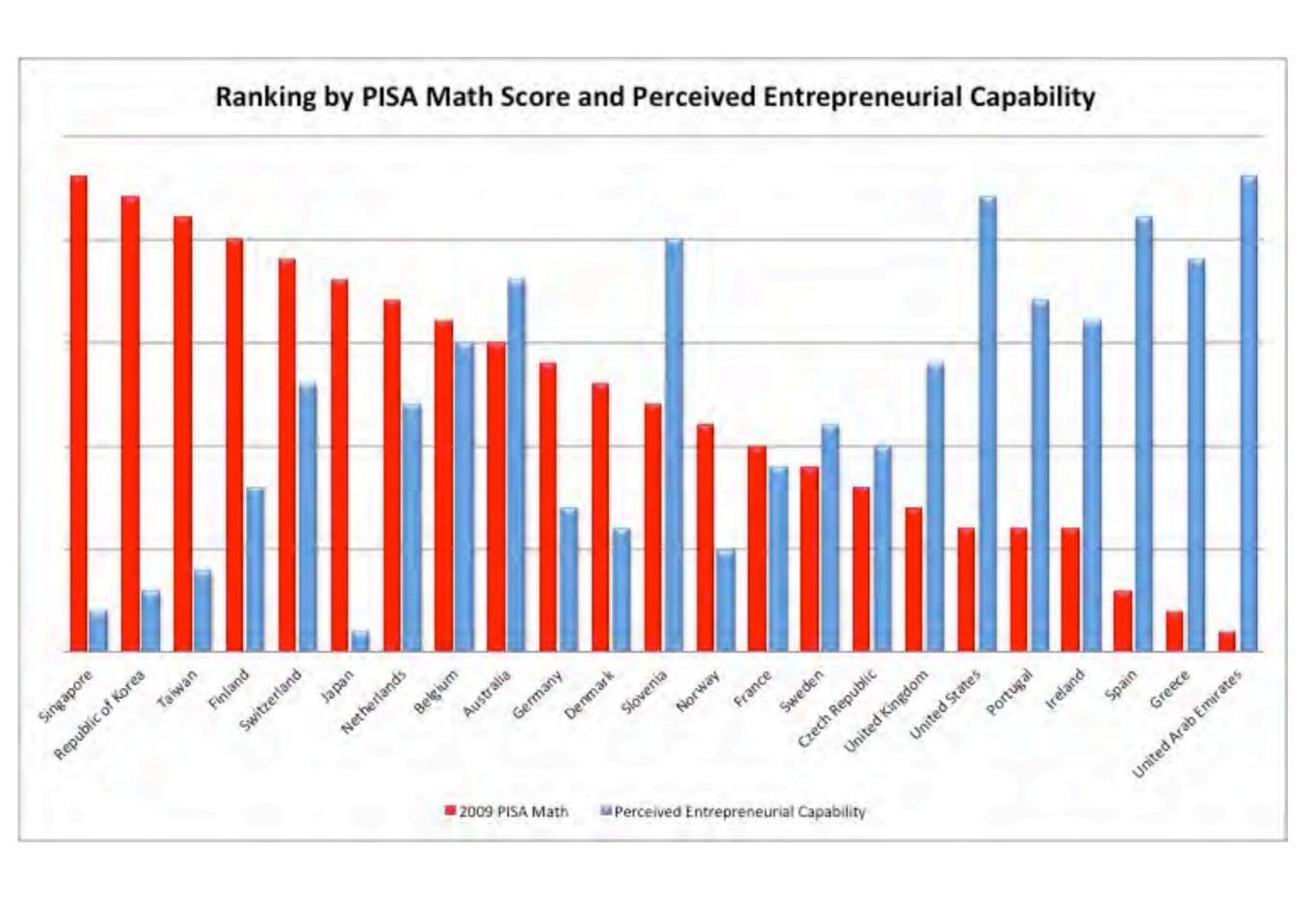
Correlations between TIMSS Math Score and Confidence and Enjoyment

	Grade	Correlation
	4	-0.58
Confidence	8	-0.64
	4	-0.67
Enjoyment	8	-0.75

Tom Loveless (2006): How Well Are American Students Learning http://www.brookings.edu/~/media/Files/rc/reports/2006/10education_loveless/10education_loveless.pdf

It is a miracle that curiosity survives formal education.

-- Albert Einstein



Correlations between PISA and Entrepreneurship Indicators

	PISA Reading	PISA Math	PISA Sciences
Perceived Capabilities	595**	586**	608**
Nascent Entre Rate	693**	636**	678**
New Biz Ownsp Rate	371*	374*	392*
Total Early Stage Entre Activity	658**	620**	658**

Data source: OECD PISA 2010, Global Entrepreneurship Monitor, 2010

Lady Gaga

Lady Gaga



If you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid.

-- Albert Einstein

In our travels to China it was everywhere, that laser-focus on education...This public school in Shanghai where the children are two years old. By three they are in school from 8 until 4, already learning phrases in English...On average Chinese students attend schools 41 more days than American students a year and with extra lessons on the weekend, Chinese students receive 30% more hours of instruction.

--ABC World News with Diane Sawyer, 2010

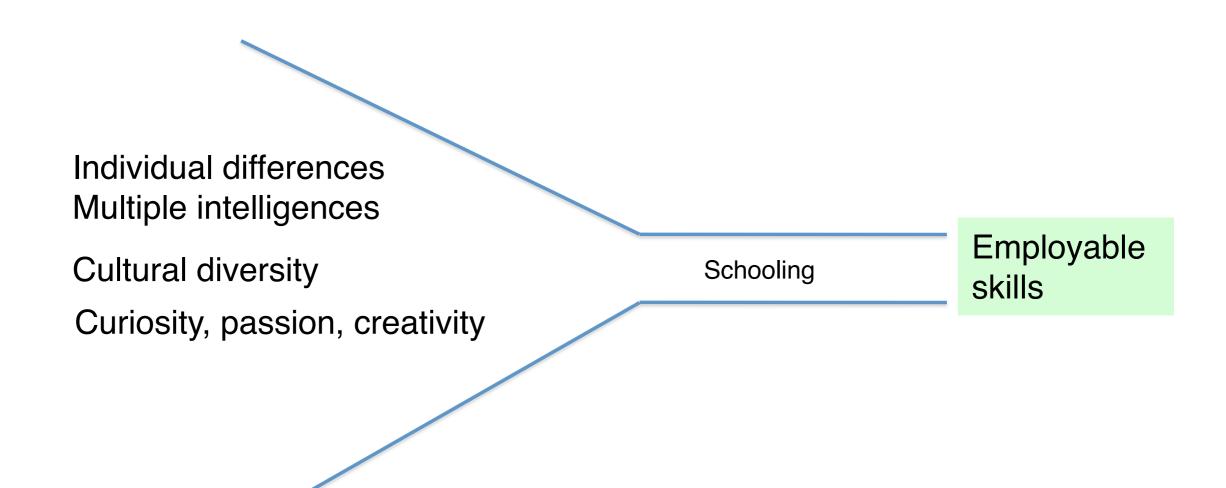
http://abcnews.go.com/Politics/china-debuts-top-international-education-rankings/story?id=12336108#.Tz5va0xU2Fc

...what they learn and how they learn are subjects of constant debate. Critics see young people as being "fed" learning because they are seldom left on their own to learn in a way of their choice. They have little direct encounters with nature, for example, and little experience with society either. While they have learned a lot, they may not have learned how to learn.

--OECD, 2011 http://dx.doi.org/10.1787/9789264096660-en



The Difference between a \$10,000 Education and a \$10 Education



It is a miracle that curiosity survives formal education.
---Albert Einstein

Individual differences Multiple intelligences

Cultural diversity
Curiosity, passion, creativity

Schooling

Employable skills

Individual differences Multiple intelligences

Cultural diversity
Curiosity, passion, creativity

Schooling

Employable skills

New Paradigm

Individual differences Multiple intelligences

Cultural diversity
Curiosity, passion, creativity

Schooling

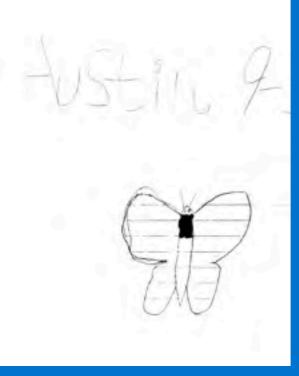
Enhanced Human Talents

If Lady Gaga is useful...

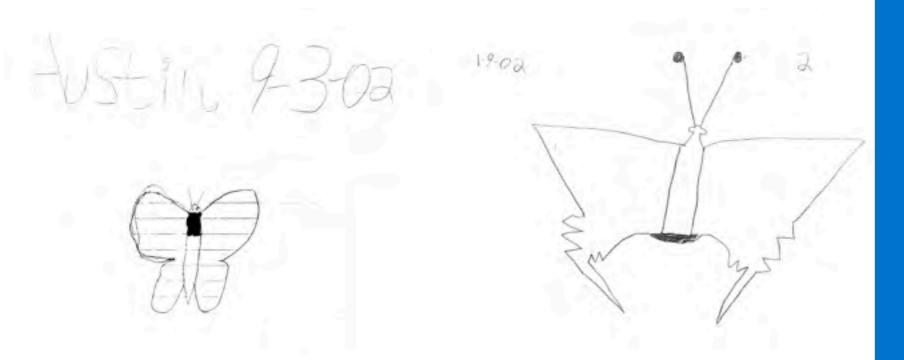
Personalized and strength-based educational experiences: Summerhill School

Austin's Butterfly...



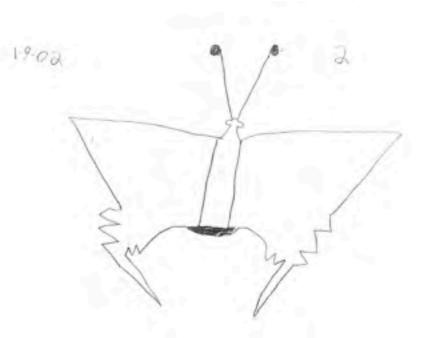


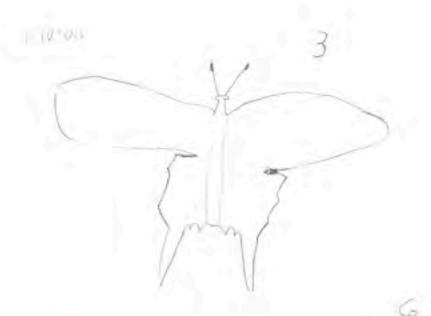






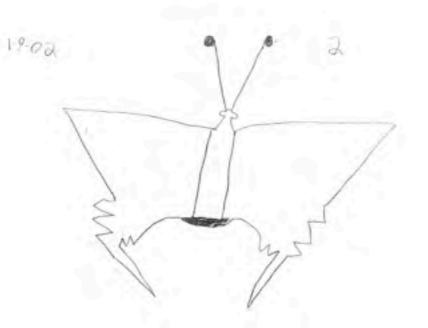


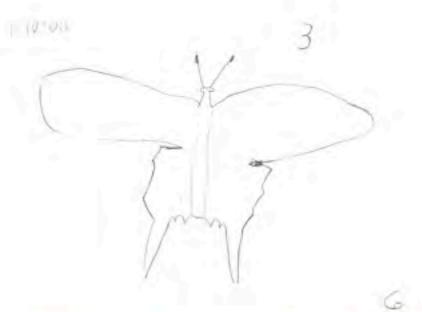


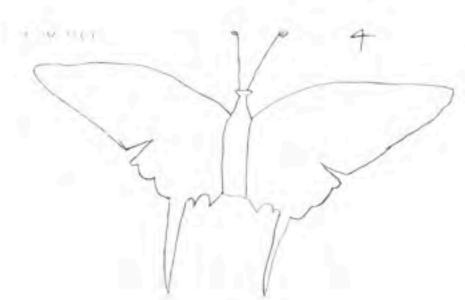


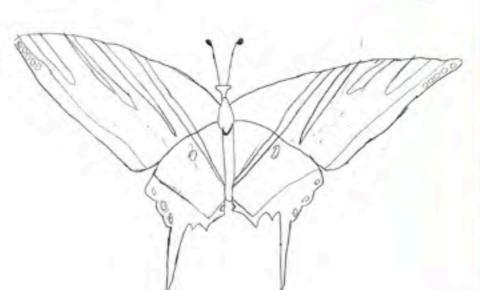


Austin, 9-3-0a











Product-oriented Learning: Multiple revisions, sustained and disciplined process, peer reviews High Tech High

The Chicken Project

The Globalized Campus: Partners, Customers, and Investors: Oxford and Cherwell School

Entrepreneurship-oriented Education

What: Student Autonomy How: Product-Where: The oriented Global Campus Learning

Where: The Globa Campus

- Global partners
- Global markets
- Global resource

How: Productoriented Leaning

- Authentic product
- Drafts and review
- Persistence and discipline

What: Student Autonomy

- Curriculum
- Governance
- Environment

Actions we could take: Fixing the ship or building a new ship

Some experiments

OBA http://globaleducation.uoregon.edu

http://zhaolearning.com