Rigor and Relevance for ALL Students

Bill Daggett
Founder and Chairman
October 22, 2015

Growing Gap
Growing Gap

Changing World

School Improvement

International Center for Leadership in Education
Growing Gap

1. Knowledge in one discipline
2. Application within discipline
3. Application across disciplines
4. Application to real-world predictable situations
5. Application to real-world unpredictable situations
Two Approaches to School Improvement

- Fixed Mindset
- Growth Mindset
Fixed Mindset
Growth Mindset
Powerpoint, Notes, and More Information

VISIT:
http://leadered.com/billdaggett

OR SCAN:
The Order of Things Have Changed

Uber- The world’s largest taxi company, owns no vehicles
Facebook- The world’s most popular media owner, creates no content
Alibaba- The world’s most valuable retailer, has no merchandise
Airbnb- The world’s largest accommodation provider, owns no real estate

But schools are still schools!

Source: Better and Faster, Jeremy Gutsche
Emerging Trends

Web

- 1.0 – Informational
Web

- 1.0 – Informational
  - Google

Web

- 1.0 – Informational
- 2.0 – Relational
Web

- 1.0 – Informational
- 2.0 – Relational
- 3.0 – Anticipatory

Web

- 1.0 – Informational
- 2.0 – Relational
- 3.0 – Anticipatory
  - Artificial Intelligence
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- 1.0 – Informational
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  - Google > Ads
  - Gmail > Ads

Career Ready
Job Shares by Skill Group
1980 - 2014

Lost Jobs

Source: NYS Fed Calculations, U.S. Census Bureau
Lost Jobs

Telemarketers 99%


Lost Jobs

Telemarketers 99%
Secretarial / Admin. Assistants 96%

Lost Jobs

Telemarketers 99%
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Lost Jobs

Telemarketers 99%
Secretarial / Admin. Assistants 96%
Accountants / Auditors 94%
Technical Writers 89%

Lost Jobs

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<th>Occupation</th>
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<tbody>
<tr>
<td>Telemarketers</td>
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</tr>
<tr>
<td>Health Technologists</td>
<td>40%</td>
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13 Million Americans Are Unemployed

BUT 3.8 Million Jobs in the U.S. Remain Unfilled
## Bachelor’s Degrees

1. Business
2. General Studies
3. Social Science and History
4. Psychology
5. Health Professions
6. Education
7. Visual and Performing Arts
8. Engineering and Technology
9. Communications and Journalism
10. Computer and Information Science

Source: National Center for Education Statistics
Bachelor’s Degrees


Source: National Center for Education Statistics

College Ready
College Freshmen
Well- or Very Well-Prepared

High School Teachers: 89%
College Instructors: 26%

Source: http://www.highereducation.org/reports/college_readiness/gap.shtml

Freshmen Needing Remediation

Two-Year College: 51.7%
Four-Year College: 19.9%

Source: http://www.highereducation.org/reports/college_readiness/gap.shtml
College Dropout Rate
2014
First to Second Year

Four-Year Colleges: 34.8%
Two-Year Colleges: 44.5%


Average Graduation Rate
1983 - 2014

Four-Year Colleges in 5 years: 29.1%
Two-Year Colleges in 3 years: 36.6%

Pennsylvania 4 Year Public College

39.7%

Pennsylvania 2 Year Public College

6.6%

Pennsylvania
62.1% graduate in six years
39.7% graduate in four years

Pennsylvania
13.9% graduate in 150% time
6.6% graduate in 100% time
College tuition rates have increased, on average, at twice the rate of inflation in the past 17 years.

Source: ACT

Percent Change Since January 1984

- College
- Medicare
- Shelter
- Consumer Price Index
- Food

Source: Insert Here
Rigor and Relevance for ALL Students
Application Model

1. Knowledge in one discipline
2. Application within discipline
3. Application across disciplines
4. Application to real-world predictable situations
5. Application to real-world unpredictable situations

Knowledge Taxonomy

1. Remembering
2. Understanding
3. Applying
4. Analyzing
5. Evaluating
6. Creating
### Rigor / Relevance Framework

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<th>Levels</th>
<th>Rigor</th>
<th>Relevance</th>
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- **Rigor**
  - Analyze the graphs of the perimeters and areas of squares having different-length sides.
  - Determine the number of solutions for three different equations.
  - Identify coordinates for ordered pairs that satisfy an algebraic relation or function.
  - Determine and justify the similarity or congruence for two geometric shapes.
  - Represent fractions on a number line.
  - Classify triangles according to angle size and/or length of sides.
  - Calculate volume of simple three-dimensional shapes.
  - Given the coordinates of a quadrilateral, plot the quadrilateral on a grid.

- **Relevance**
  - Obtain historical data about local weather to predict the chance of snow, rain, or sun during year.
  - Test consumer products and illustrate the data graphically.
  - Plan a large school event and calculate resources (food, decorations, etc.) you need to organize and hold this event.
  - Design a new currency and trading rules for an online game.
  - Draw a timeline of your life accomplishments.
  - Calculate the incline of a new handicap ramp to be installed at the front entrance of the school.
  - Determine the median and mode of weather data from the past week.
  - Organize and display collected data, using appropriate tables, charts, or graphs.
Rigor / Relevance Framework

1. Represent fractions on a number line.
2. Classify triangles according to angle size and/or length of sides.
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Rigor / Relevance Framework

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2. Calculate the incline of a new handicap ramp to be installed at the front entrance of the school.
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Two Approaches to School Improvement
Two Approaches to School Improvement

Fixed Mindset (Quad A/C)

Growth Mindset (Quad B/D)

Reading Study Summary

Interquartile Ranges Shown (25% - 75%)

<table>
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<th>Text Lexile Measure (L)</th>
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Source: National Test Data, MetaMetrics
Grade 4 Reading Pennsylvania

![Graph showing NAEP equivalent scores for Grade 4 Reading in Pennsylvania, comparing 2009 and 2013 results.]


Grade 4 Math Pennsylvania

![Graph showing NAEP equivalent scores for Grade 4 Math in Pennsylvania, comparing 2009 and 2013 results.]

Grade 8 Reading Pennsylvania

Grade 8 Math Pennsylvania

NOTE: California and Virginia were not included because the states do not assess general mathematics in grade 8.

Digital Literacy

Tools/Applications/Systems

Digital Literacy

Tools/Application/Systems

Digital Footprint/Tattoo
Digital Footprint

Facebook  Snapchat  Instagram  Vine

Digital Tattoo
Digital Footprint

- College Admission

Digital Footprint

- College Admission
- Applying for a Job
Digital Footprint

- College Admission
- Applying for a Job
- Boyfriend/Girlfriend (their parents)

Digital Literacy

- Tools/Applications/Systems
- Digital Footprint/Tattoo
- Vetting of Sources
Digital Literacy

Tools/Applications/Systems

Digital Footprint/Tattoo

Vetting of Sources

WHY

WHAT

HOW
Fundamental Shift

Those Schools that pull students out of Art, Music, Physical Education, and CTE for remediation have a fixed (A/C) mindset

Source: Better and Faster, Jeremy Gutsche

Fundamental Shift

Schools that drive academics into Art, Music, Physical Education, and CTE – as well as – drive Art, Music, Physical Education and CTE into academics have a growth (B/D) mindset

Source: Better and Faster, Jeremy Gutsche
Practices

- Looping
- Department Chairs
- Professional Learning Communities
- Reading
- Writing Intensive
- Career Pathways
- 1/3
- Digital Delivery

Technology has transformed how children play and interact. It has transformed the workplace they will enter, but it has not transformed how we educate them.
Gamification

Gaming is increasingly being built based upon brain research
Gamification

Engaging

Personalized
Gamification

Engaging
Personalized
Built on Growth Model
Tied to Standards
Gamification

- Engaging
- Personalized
- Built on Growth Model
- Tied to Standards
- Merging with Online Providers

Districts Need a Gamification, Online, and Digital Literacy Policy and Plan
Stride Academy

Stride Academy/USNH
Practices

• Constant Search for Innovative Best Practices
• Redefined Community

Networked Communities

Social media is creating a new sense of ‘community’ tied together by common interests and not physical proximity to each other
If we teach today’s students as we taught yesterday’s, we rob them of tomorrow.

John Dewey

On a scale of 1 to 5, rate each of the following:
The educators in my district are predominantly at:

<table>
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The parents in our district are predominantly at:

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The general community in our district are predominantly at:

(Fixed Mindset) 1 2 3 4 5 (Growth Mindset)

To prepare students for success in the world beyond school, we collectively need to have a:

(Fixed Mindset) 1 2 3 4 5 (Growth Mindset)
Systemwide Focus

Rigorous Learning for ALL Students
Recommended Action Items

Create 20-Day Plans
Recommended Action Items

1. Create 20-Day Plans
2. Create a Culture – Establish a Vision

Identify specific actions that should be taken to create a culture that will lead our schools to better prepare students for their future.
Recommended Action Items

- Create 20-Day Plans
- Create a Culture – Establish a Vision
- Quad D Instruction

Levels

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Relevance
Do we need to do an instructional practices assessment in our schools? If yes, what would be most important to include in the assessment?

Recommended Action Items

- Create 20-Day Plans
- Create a Culture – Establish a Vision
- Quad D Instruction
- Measuring What Matters
Survey Tools for Measuring What Matters

We Learn
Student Survey

We Teach
Instructional Staff Survey

We Lead
Whole Staff Survey

We Succeed
Student Survey

We Inspire
Instructional Staff Survey

We Support
Parent/Community Survey

Teacher vs. Student Comparison

Students can apply what I am teaching to their everyday lives.

Teacher: 92%

Student: 58%

I can apply what I learn to my everyday life.
Teacher vs. Student Comparison

Students in my classroom engage in hands-on activities.

Teacher: 88%
Student: 45%

We do lots of hands-on activities in my classes.

Teacher vs. Student Comparison

I make learning exciting for my students.

Teacher: 84%
Student: 40%

My teachers make learning exciting.
**Teacher vs. Student Comparison**

I recognize students when they demonstrate positive behavior in school.  
Teacher: 95%  
Student: 40%  

Good citizenship is rewarded in this school.

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<td>600</td>
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<td>1000</td>
<td>1200</td>
<td>1400</td>
<td>1600</td>
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Source: National Test Data, MetaMetrics
Lexile® Framework - Student Profile
Matt - Age 15, Grade 10, Lexile 1090, GPA 3.0

Source: National Test Data, MetaMetrics
Lexile® Framework - Student Profile

Text Lexile Measure (L)

High School Literature
College Literature
High School Textbooks
College Textbooks
Military Personal Use
Entry-Level Occupations
SAT 1, ACT, AP*

Matt

1st Quarter
2nd Quarter
3rd Quarter
4th Quarter

Source: National Test Data, MetaMetrics
Are we measuring and reporting what matters most? If not what else should we measure and report?

Recommended Action Items

- Professional Learning
What professional development needs exist in our district?

Recommended Action Items

- Professional Learning
- Leadership Development/Executive Coaching
Should we bring in executive coaches from the nation’s most rapidly improving schools to help coach us on successful practices they have found most beneficial?

Recommended Action Items

- Professional Learning
- Leadership Development/Executive Coaching
- 2016 Model Schools Conference
JOIN US NEXT YEAR IN ORLANDO

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MODEL SCHOOLS
CONFERENCE
JUNE 26-29, 2016 • ORLANDO

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www.modelschoolsconference.com

RIGOR, RELEVANCE, AND RELATIONSHIPS
IN ACTION

INNOVATIVE LEADERSHIP and BEST PRACTICES for RAPID SCHOOL IMPROVEMENT

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