Let Me Learn at My Level of Readiness The Rise of Personalized Competency Based Learning

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The Age of Learning, Ideas, and Innovation

- New ideas and discoveries
- The opportunity to share ideas
- An age of innovation and opportunity for those who love to learn, have good learning skills, self-management skills, and the ability to collaborate with others

What a time to be a learner!



But this opportunity to be a successful learner is not available to all our children

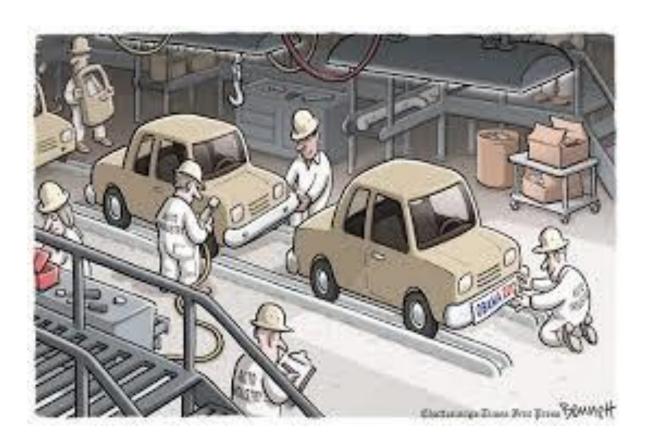


Schools are failing to serve as an equalizer which gives opportunity to all

What if we could create a system that is purposefully designed to help all students to be successful learners?

- Understand why our existing system of education is not build to effectively help all kids to learn
- Consider a much better model for learning, that is absolutely familiar to everyone in this room
- Choose to seize the opportunity to be the change-makers who build a system that allows all our kids to participate in the age of learning

The Curriculum-Driven System Consistently Performs in Exactly the Manner It Was Designed



Standardized One-Size-Fits-All Curriculum-Based Education



- **Cover** standardized content for each grade or course
- **Test** students after each unit of instruction
- **Sort** students by grades into different levels of success
- Move on to the next unit of instruction

School Reform Accomplishments

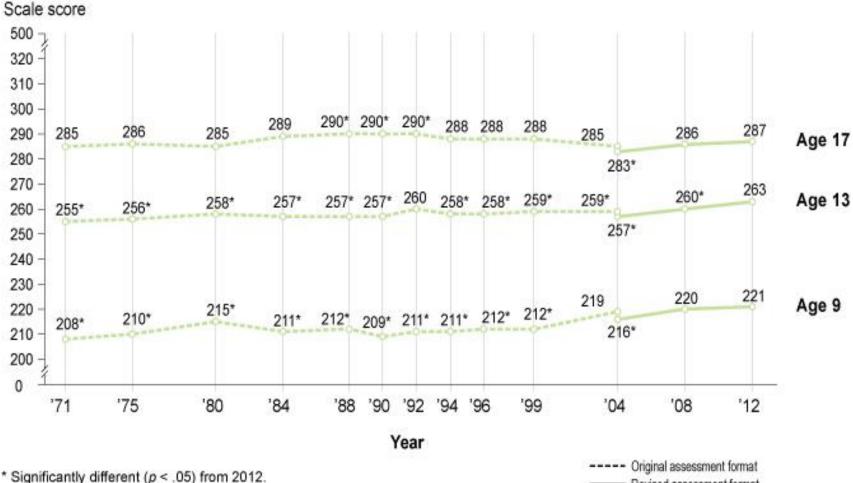
- Non-viable lists of state content expectations
- Non-viable lists of federal content expectations
- High stakes testing
- Rigid pacing guides/ one size fits all
- CCSS/GLCE references in lesson plans
- CCSS/GLCEs posted daily in the classroom
- High frequency district assessments
- Less time for play, music, art, nature, recess!
- Educator stress
- Student stress

The Politics of School Reform

- A Nation at Risk
- Goals 2000
- No Child Left Behind
- CCSS
- PARCC and Smarter Balance
- Race to the Top
- School Improvement Grants

Decades of School Reform

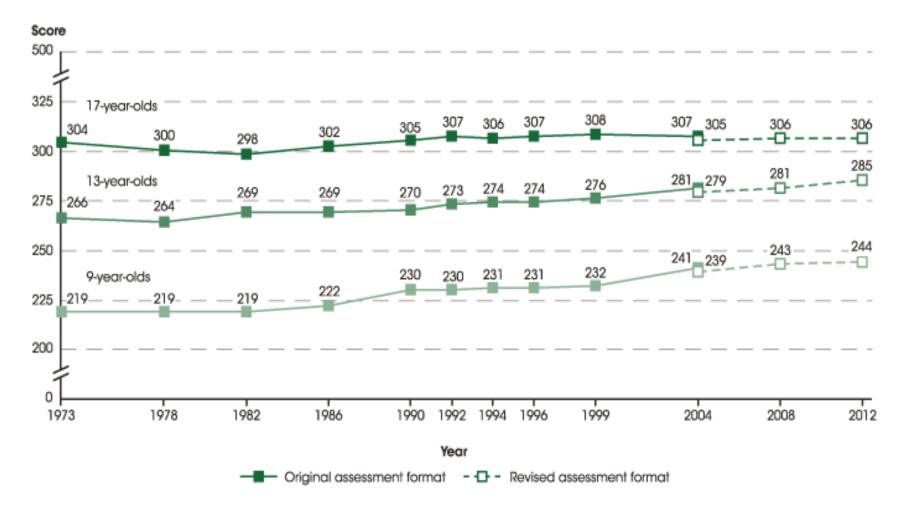
NAEP Long Term Reading Trends, Average Scaled Scores Source: NAEP, The Nation's Report Card: Trends in Academic Progress, 2012



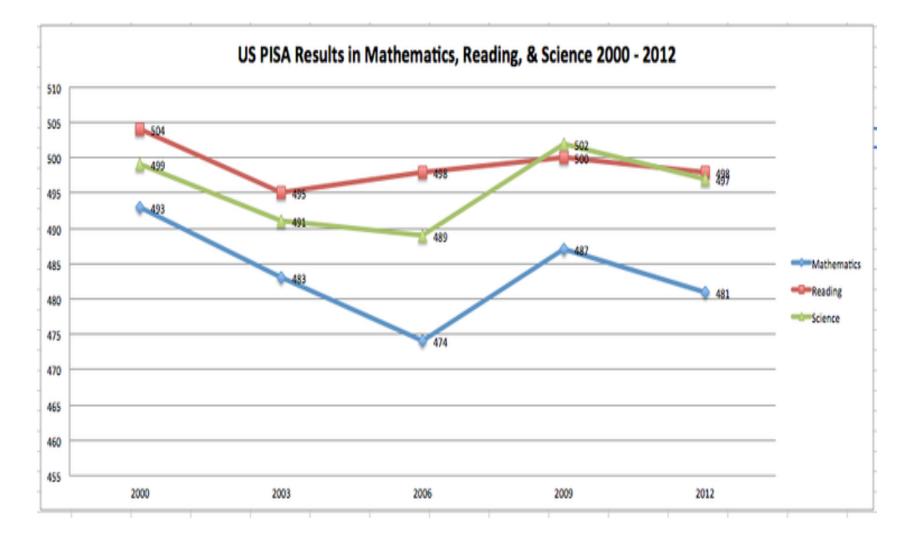
Revised assessment format

Decades of School Reform

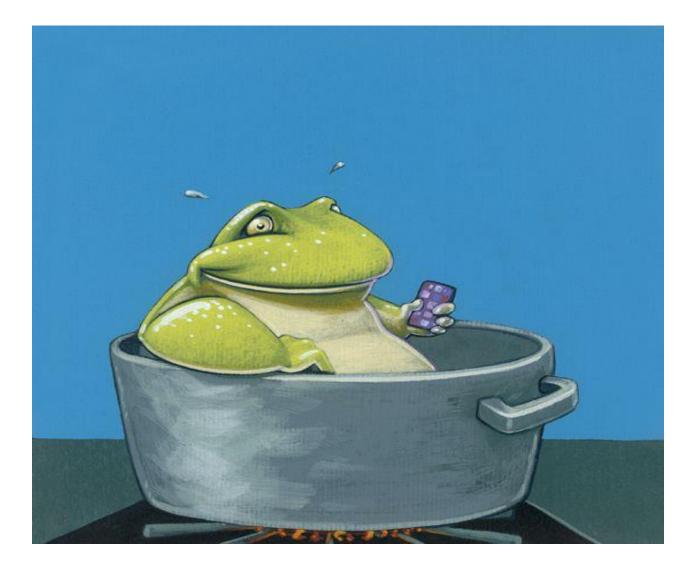
NAEP Long Term Math Trends, Average Scaled Scores Source: National Assessment of Educational Progress, Trends in Academic Progress, 2012



Decades of School Reform PISA International Testing



Cooked and Happy



Decades of School Reform

OECD Programme for International Assessment of Adult Competencies

The PIAAC (2014) assessed millennials (16 to 34) for literacy, numeracy and problem solving skills, in 22 OECD nations.

In literacy, US millennials scored lower than 15 other nations. In both numeracy and problem solving, US millennials were tied for last.

One-Size-Fits-All Curriculum Driven Instruction Devours Vulnerable Children



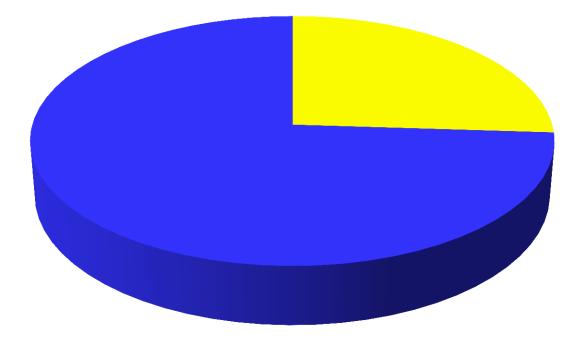
Is Curriculum-Driven Instruction Working?

66% of American children are scoring below proficient reading levels at the beginning of 4th grade on the National Assessment of Educational Progress reading test. (Annie E. Casey Foundation, 2013).

Is Curriculum-Driven Instruction Working?

 80% of fourth graders from poor families have reading skills below the proficient level (Hernandez, 2011).

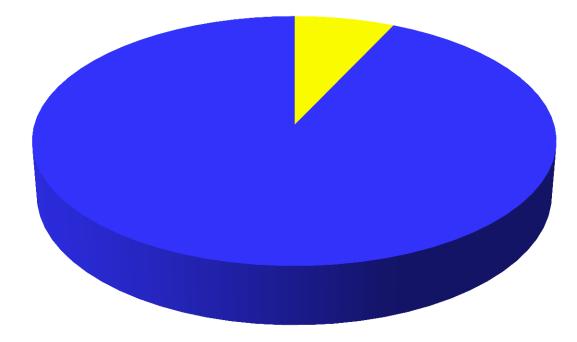
NAEP Math Proficiency (Grade 12), 2013



26% Grade 12 Proficient

74% Less than Proficient

NAEP Math Proficiency for African American Students (Grade 12), 2013



7% Grade 12 Proficient

93% Less than Proficient

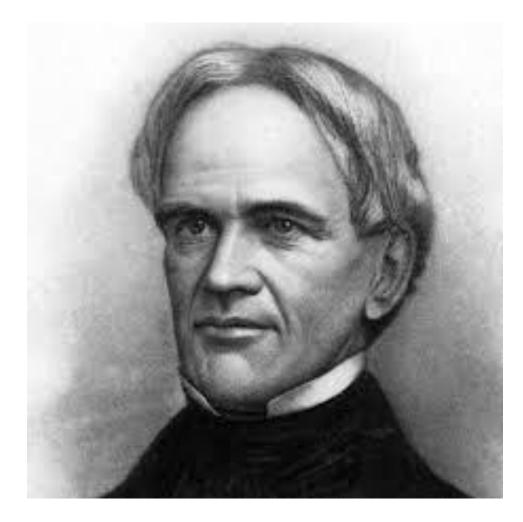
Decades of School Reform

Detroit Fourth Grade Detroit Fourth Grade NAEP Rates of Math **NAEP** Rates of Reading Proficiency, 2015 Proficiency, 2015 Below Basic Below Basic 64% 73% Basic 31% Basic 21% Proficient 4% Proficient 5% Advanced 0% Advanced 0%

Decades of School Reform

	dents Proficios All Grades,		% of N.Y. Students Proficient in Math Across All Grades 3-8									
	2015	2016			2015	2016						
NYC	30.4	38	NY	С	35.2	36.4						
Buffalo	11.9	16.4	Buffa	alo	15.1	16.1						
Rochester	4.7	6.7	Roche	ster	7.4	7.2						
Syracuse	8.1	10.9	Syrac	use	9.4	10.4						
Yonkers	20.3	26	Yonk	ers	24	24.6						

Blame Teachers, Parents, or Students?



The Opportunity to Build a Learning System for the 21st Century



Our Moment of Opportunity

- Identify clear concise learning goals along a pathway to higher level skills
- Teachers and students know exactly where they are on the skill development continuum
- Personalized instruction gives students what they need at their optimal level of challenge
- Teachers carefully monitor progress and adapt instruction as needed to maximize student learning
- Students advance upon demonstrated mastery

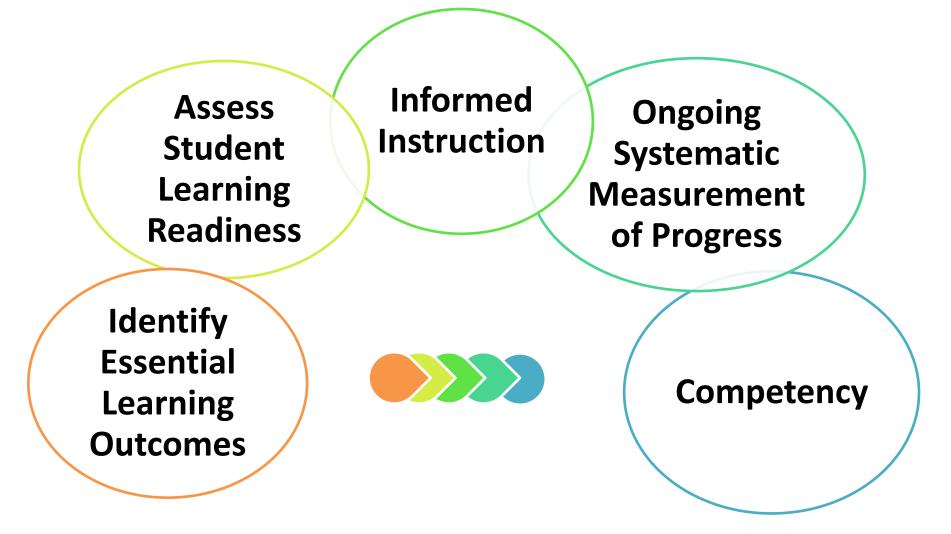
Our Moment of Opportunity

- No more sitting through lessons already learned/ No more struggling with impossible lessons
- Students maintain a growth mindset
- Assessment is meaningful, and contributes to student ownership of their own learning
- Students are offered choice in how they learn
- Learning is joyful, and never a race

Personalized Competency Based Learning



Competency Based Learning in Action



Systems Architecture

Curriculum-Driven

- 1. Use a standardized onesize-fits-all curriculum
- 2. Deliver instruction at the same pace for all
- 3. Test students after each unit of instruction
- 4. Sort students by grade into levels of success
- 5. Move forward with the delivery of standardized instruction whether students are ready or not

Competency Based

- 1. Identify clear learning outcomes
- 2. Assess student readiness for learning
- 3. Offer instruction at each student's level of readiness
- 4. Monitor progress and adapt instruction as needed
- 5. Give all the time and support needed to develop competency in any essential skill

It is already happening

Personalized Instruction/Competency Based K-12 Learning

- New Hampshire, 2010
- Maine
- 30 other states

Early Learning Foundation uses a simple competency framework in PK to Grade 3

Western Governor's, Capella, online programs

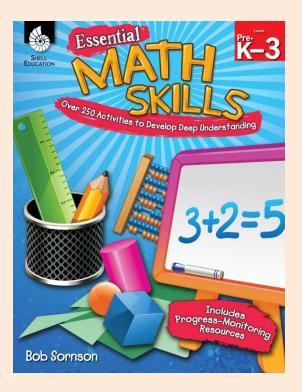
Dozens of other Universities

Khan Academy and other Digital Learning Options

Global Learning XPRIZE founded by Elon Musk

- RoboTutor: software to learn basic math and reading independently/ Carnegie Mellon
- Literacy Education and Math Lab: Learning through play labs in or out of school/ Columbia

It is already happening



Essential Math Skills, Pre-K to Grade 3 The Essential Math Skills Inventory Shell Education

Essential Number Concepts, Kindergarten

(K) Demonstrates counting to 100
(K) Has one-to-one correspondence for numbers 1-30
(K) Understands combinations (to 10)
(K) Recognizes number groups without counting (2-10)

Essential Skill Inventories

The Pre-K to Grade 3 Inventories are a **competency framework** for the essential skills that are the foundation for learning success

- -Growth mindset
- -Whole child
- Personalized student centered instruction

Preschool Essential Skills

Oral Language

Listens with interest to stories Retells stories using main ideas Expresses needs and wants verbally Uses words to solve problems Uses age-appropriate vocabulary Follows two-part oral directions

Literacy

Shows an interest in books and print Understands basic concepts of print Identifies if sounds are the same or different

Recognizes basic rhyming words Identifies basic shapes Recognizes and prints first name Identifies uppercase letters in first name Identifies some letters and the sounds they make

Number Sense

Counts by rote to 20 Recognizes numerals 0 to 10 Counts using 1 to 1 correspondence for numbers (to 10) Models gross motor and fine motor patterns Understands concepts of add-on and take-away (to 10)

Preschool Essential Skills

Visual Motor Skills

Uses coloring and writing tools with skill Can draw a picture to express an idea Demonstrates appropriate cutting skills Uses proper pencil grip Prints name in own style Gives sustained effort to visual-motor tasks

Gross Motor Skills

Throws and catches a large ball Throws and catches a small ball Stands on one foot with eyes open Hops on two feet Hops on one foot Demonstrates ability to cross midline

Behavior

Separates from parents/caregivers without excessive upset Plays/shares with others Waits his/her turn Perseveres to complete a task Respects classroom rules and procedures Demonstrates good listening skills

Self-Care

Can use the bathroom independently and complete hygiene tasks Able to dress self (puts on coat and shoes; fastens snaps, buttons and zippers)

States full name and age

Kindergarten Essential Skills

Shapes

- Identifies basic shapes
- Draws basic shapes

Visual

- Uses hands and eyes at nearpoint
- Maintains visual focus at nearpoint

Letters

- Identifies uppercase letters
- Identifies lowercase letters

Phonologic Skills

- Identifies if sounds are the same or different
- Identifies rhyming words
- Produces rhymes for a given word
- Identifies beginning or ending sounds of words
- Blends given sounds into words
- Segments words into sounds
- Listens with interest to stories
- Identifies a letter sound associated with each letter

Language

- Asks questions when appropriate
- Follows 2-part oral directions
- Uses age-appropriate vocabulary
- Uses language to solve problems

Motor Skills

- Demonstrates throwing and catching skills with a small ball
- Can balance on one foot with eyes closed for 6 seconds
- Skips well for at least 10 yards

Literacy

- Understands concepts of print
- Recognizes personally meaningful sight words
- Prints 10-20 personally meaningful words
- Uses letter-sound knowledge to write words
- Prints full name

Numeracy

- Demonstrates counting to 100
- Has one-to-one correspondence for numbers 1-30
- Understands combinations (to 10)
- Recognizes number groups without counting (2-10)

Behavior

- Perseveres to achieve a task
- Respects basic rules/procedures in the classroom

First Grade Essential Skills

Letters

- Identifies uppercase letters
- Identifies lowercase letters

Phonologic Skills

- Produces rhymes for a given word
- Identifies beginning, middle and ending sounds of words
- Combines phonemes to make words

Language

- Identifies a letter sound associated with each letter
- Produces rhymes for a given word
- Identifies beginning, middle and ending sounds of words
- Combines phonemes to make words

Motor Skills

- Demonstrates appropriate balance
- Demonstrates appropriate skipping
- Uses comfortable nearpoint vision

Visualization

- Draws pictures with detail
- Can tell/retell a story

Literacy

- Recognizes basic sight words
- Follows print when reading (visual tracking)
- Decodes grade-appropriate print
- Reads short sentences
- Reads for meaning
- Prints 30-50 personally meaningful words
- Expresses ideas in writing (simple sentences)
- Spells using common word patterns
- Spells words using visual memory

Numeracy

- Counts objects with accuracy to 100
- Replicates visual patterns or movement patterns
- Recognizes number groups without counting (2-10)
- Understands concepts of add on or take away (to 30) with manipulatives
- Can add or subtract single digit problems on paper
- Shows a group of objects by number (to 100)

Behavior

- Delays gratification when necessary
- Plays well with others
- Shows interest in learning

Second Grade Essential Skills

Reading

- Uses phonics knowledge to decode words in context
- Recognizes basic sight words
- Reads with fluency
- Reads for pleasure
- Identifies story elements
- Identifies main ideas
- Makes text-to-text connections
- Makes text-to-self connections
- Makes inferences when reading

Visual Memory

- Spells using visual memory
- Can remember 3-block visual patterns

Language

- Uses age-appropriate vocabulary
- Demonstrates effective listening skills
- Uses language to recognize feelings in self and others

Writing

- Prints neatly
- Writes in full sentences

- Spells using phonics skills
- Makes simple revisions to a draft
- Writes using rich detail

Motor Skills

Demonstrates excellent balance and skipping

Mathematics

- Quickly recognizes number groups (to 100)
- Can show a group of objects by number (to 100)
- Can add-on or take-away from a group of objects (to 100)
- Can add or subtract double digit problems on paper
- Counts by 2, 3, 4, 5, and 10 using manipulatives
- Solves written and oral story problems using the correct operations
- Understands/identifies place value to 1,000

Behavior

- Demonstrates empathy for fellow students
- Shows interest in learning

Third Grade Essential Skills

Reading

- Uses phonics knowledge to decode words in context
- Recognizes basic sight words
- Reads with fluency
- Reads for pleasure
- Identifies story elements using reading strategies
- Identifies main ideas
- Monitors comprehension while reading
- Makes inferences when reading
- Makes text-to-text, self, world connections

Language

- Uses age-appropriate vocabulary
- Demonstrates effective listening skills
- Uses language to recognize feelings in self and others

Writing

- Prints neatly and writes neatly in cursive
- Spells using visual memory
- Spells using phonics skills and word patterns
- Uses capitalization and punctuation
- Writes a paragraph using full sentences

- Expresses a clear opinion in oral and written form
- Edits and revises drafts

Mathematics

- Reads and writes numbers to 10,000 in words and numerals
- Uses common units of measurement: Length, weight, time, money, temperature
- Can add or subtract three digit problems on paper with regrouping
- Can round numbers to the 10s
- Can round numbers to the 100s
- Add and subtract 2 digit numbers mentally
- Counts by 5,6,7,8,9,10 using manipulatives
- Uses arrays to visually depict multiplication
- Recognizes basic fractions
- Solves written and oral story problems using the correct operation

Behavior

- Shows interest in learning
- Demonstrates empathy for fellow students

Organization

- Organizes to complete a task in school
- Organizes to complete a task at home

Systematic Measurement of Progress

Essential Skills Class Inventory for Kindergarten Indicate mastery by writing the date to the rigt of the student's name under the skill mastered.

Sha	Shapes Visual			Let	ters	Phonological Skills								Language				M	otor Skil	ls	Literacy						umeracy	Behavior		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Identifies basic shapes	Draws basic shapes	Uses hands and eyes at near point	Maintains visual focus at near point	Identifies uppercase letters	Identifies lowercase letters	Identifies if sounds are the same or different	Identifies rhyming words	Produces rhymes for a given word	Identifies beginning or ending sounds of words	Blends given sounds into words	Segments words into sounds	Listens with interest to stories	Identifies a letter sound associated with each letter	Asks questions when appropriate	Follows two-part oral directions	Uses age-appropriate vocabulary	Uses language to solve problems	Demonstrates throwing and catching skills with a small ball	Balances on one foot with eyes closed for 6 seconds	Skips well for at least 10 yards	Understands concepts of print	Recognizes personally meaningful sight words	Prints 10 to 20 personally meaningful sight words	Uses letter-sound knowledge to write words	Prints full name	Demonstrates counting to 100	Has one-to-one correspondence for numbers 1 to 30	Recognizes number groups without counting (2 to 10)	Perseveres to complete a task	Respects basic rules/procedures
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		9/20	9/20	9/25	-	9/30	9/30	11/15						9/22	9/22	1/15	9/22	12/15	9/23	12/15	12/1	964	12/15	12/1		1/15	1/15	12/1		VI
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More Reasons

Learning reading and math the way it was done 100 years ago is not going to prepare anyone for the future.

Up to 70 percent of the tasks in most jobs are on track to be automated, leaving only the most creative, empathetic, technically fluent, collaborative work for humans.

Schools Can Serve All Our Students

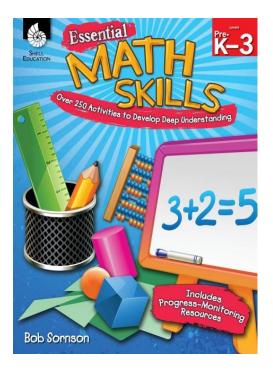
Start with Clear Learning Goals, then Give Kids the Instruction They Need at Their Level of Readiness for as Long as They Need It

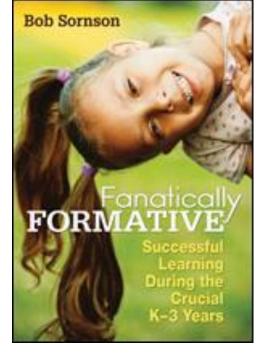


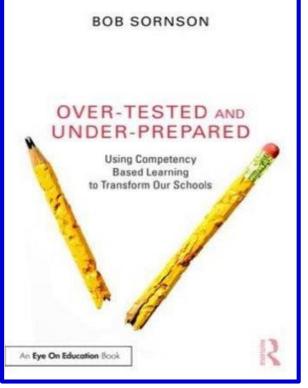
Leadership We Need You



Competency Based Learning







Do You Want to Learn More about Competency Based Learning?

The Essential Skill Inventories Preschool and K-3

License to use the ESI is without cost for schools with a training and data collection plan

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Important Learning Outcomes





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