

Reimagining Schools for **Modern Learning**

Unpleasant Truths , Fundamental Questions



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modernlearners.com
change.school
[@willrich45](https://twitter.com/willrich45)

**A pivotal moment for
education.**



Education at the **crossroads**

Amazing opportunities



Amazing opportunities
Seriously difficult challenges





One minute
One sentence

Define “learning.”

**If we don't have a coherent,
shared definition of that word,
real school change is
impossible.**

Unpleasant Truth:

We in education **do not have** a coherent, shared definition of what we mean by learning.

We know this.

Mastery Learning
Binge Learning
Competency-Based Learning
High Quality Project-Based Learning
Collaborative Learning
Passion-Based Learning
Flipped Learning
Personalized Learning
Blended Learning
21st Century Learning
Inquiry-Based Learning
Student-Centered Learning
Mobile Learning
Social Learning
Cooperative Learning
Lifelong Learning
Deeper Learning

[illegible]

**“And What do YOU Mean by
Learning?”**

~ Seymour Sarason

“E o que você quer dizer com
Aprendizagem?”

~ Seymour Sarason



**“Productive learning
is where the process
engenders
and reinforces
wanting to learn more.
Absent wanting to learn,
the learning context is
unproductive.”**

~ Seymour Sarason
And What Do You Mean by Learning?



“A aprendizagem produtiva ocorre quando o processo compõe e reforça o desejo de aprender mais. Sem o desejo de aprender, o contexto de aprendizagem é improdutivo.”

~ Seymour Sarason
And What Do You Mean by Learning?

Unpleasant Truth:

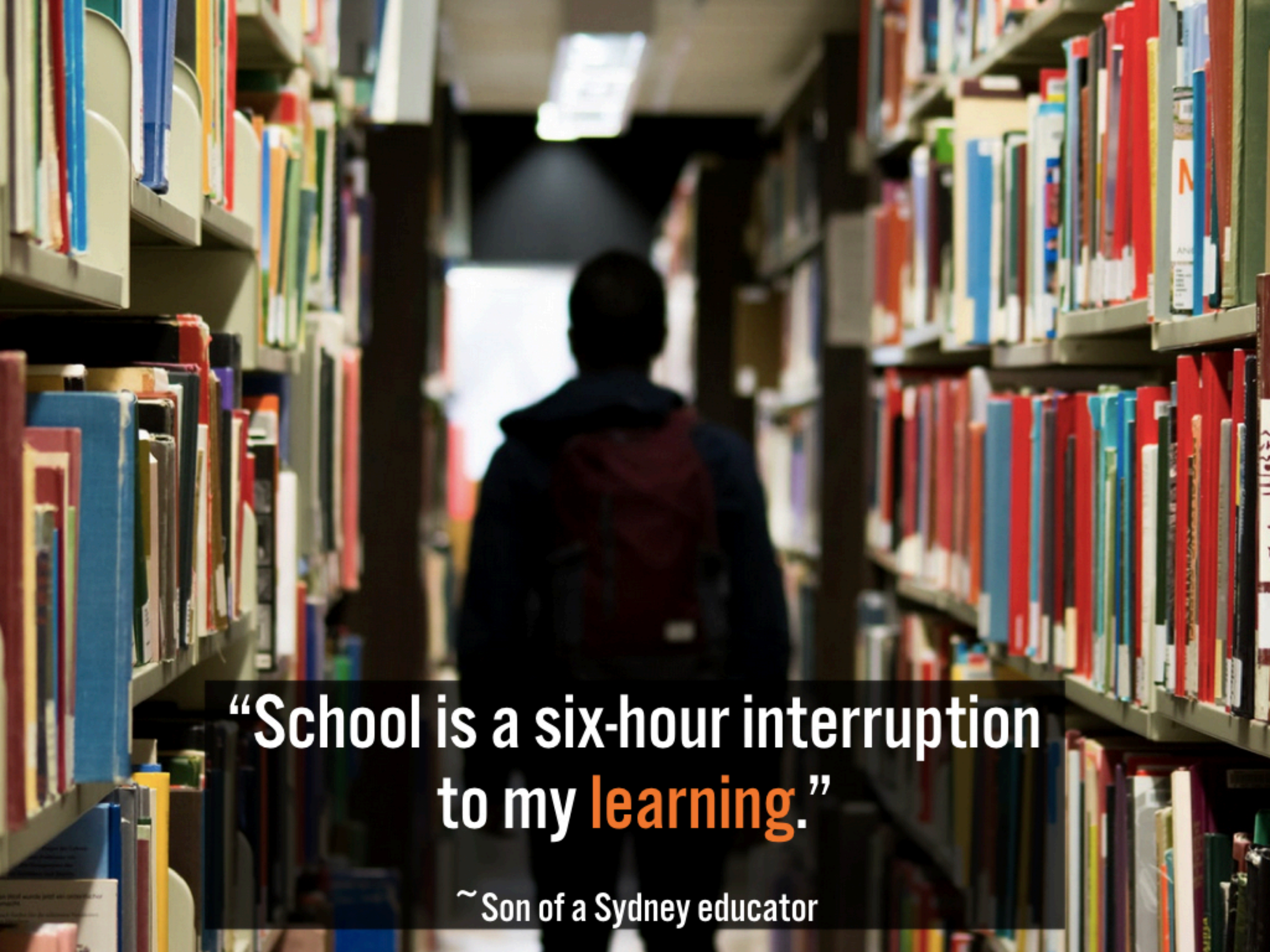
**Most learning contexts in school
are “unproductive.”**

**When was the last time you chose
to learn something you didn't
need or want to learn?**

Education \neq Learning

Education \neq Learning

Learning = Education

A photograph of a person walking away from the camera down a long aisle in a library. The person is wearing a dark jacket and a backpack. The shelves on both sides are filled with books of various colors. The lighting is soft, and the perspective leads the eye towards the person in the distance.

**“School is a six-hour interruption
to my **learning**.”**

~ Son of a Sydney educator

A story:

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


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<input type="checkbox"/>	Proj Adventure II / Group Dynamics	554-08	Proj Adventure II / Group Dynamics	S1	McNally, Denise	Fieldhouse	92.6 A	1
<input type="checkbox"/>	Out Sem 2 B1 (NI)	XS2B1-01	Out Sem 2 B1 (NI)	S2	StaffH, Hcrhs	OUT		2
<input type="checkbox"/>	Honors Intro to Western Philosophy	139-03	Honors Intro to Western Philosophy	S2	Perotti, Matthew	824	92.63 A	2
<input type="checkbox"/>	Health 12/Team Sports I/Cons Fit	540-15	Health 12/Team Sports I/Cons Fit	S2	DeFazio, Tristen	712	99.42 A+	1
<input type="checkbox"/>	Piano Keyboard 1	775-07	Piano Keyboard 1	S2	Petrushun, Megan	504*	98.59 A+	0

“Productive Learning?”

Under what conditions do people
learn most productively
(not just in school)?

What we **all** say:

Safe learning environment

Personal investment

Real world application

Fun

Relevance to their lives

Social

Interesting questions

Positive learning environment

Real audience

Passion

Teachers/Mentors

Feedback

Autonomy and agency

Challenging

Cross-disciplines

Not time constrained

Flow

What we *never* say:

Sitting in rows
45/60/88 minute blocks
Discrete curriculum
One subject area focus
Age grouped co-learners
No real world application
Teacher controlled
Someone else's questions
Standardized assessments
Emphasis on grades
Carrots and sticks
No choice/no agency
Lack of relevance
"Handing it in"
Limited access

Safe learning environment
Personal investment
Real world application
Fun
Relevance to their lives
Social
Interesting questions
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Standardized assessments
Emphasis on grades
Carrots and sticks
No choice/no agency
Lack of relevance
"Handing it in"
Limited access

Unpleasant Truth:

We're not doing what we believe.

**The contexts for education,
schooling, and learning
have changed.**

Welcome to an age of limitless

Learning and Doing



Meet **Nate**

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Hi. I'm Nate and the host of The Show About Science. I started this podcast when I was 5 years old. I'm now 6 and just about to start first grade. If I'm not studying hard in school, I'm working on my podcast. This is an awesome show about science. Every episode is filled with interesting facts and information from scientists around the globe. If you only listen to one show about science, it definitely should be this one! Subscribe to this podcast in iTunes: goo.gl/GnerO1

Make sure to visit my new website:
theshowaboutscience.com/

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“Basically I need the most people that I can get to listen to my show,” Nate said. “I want them to get a **love for science.**”



Nate is your **new** reality

Nates are everywhere

10.13.17 | FUTURE OF PHILANTHROPY

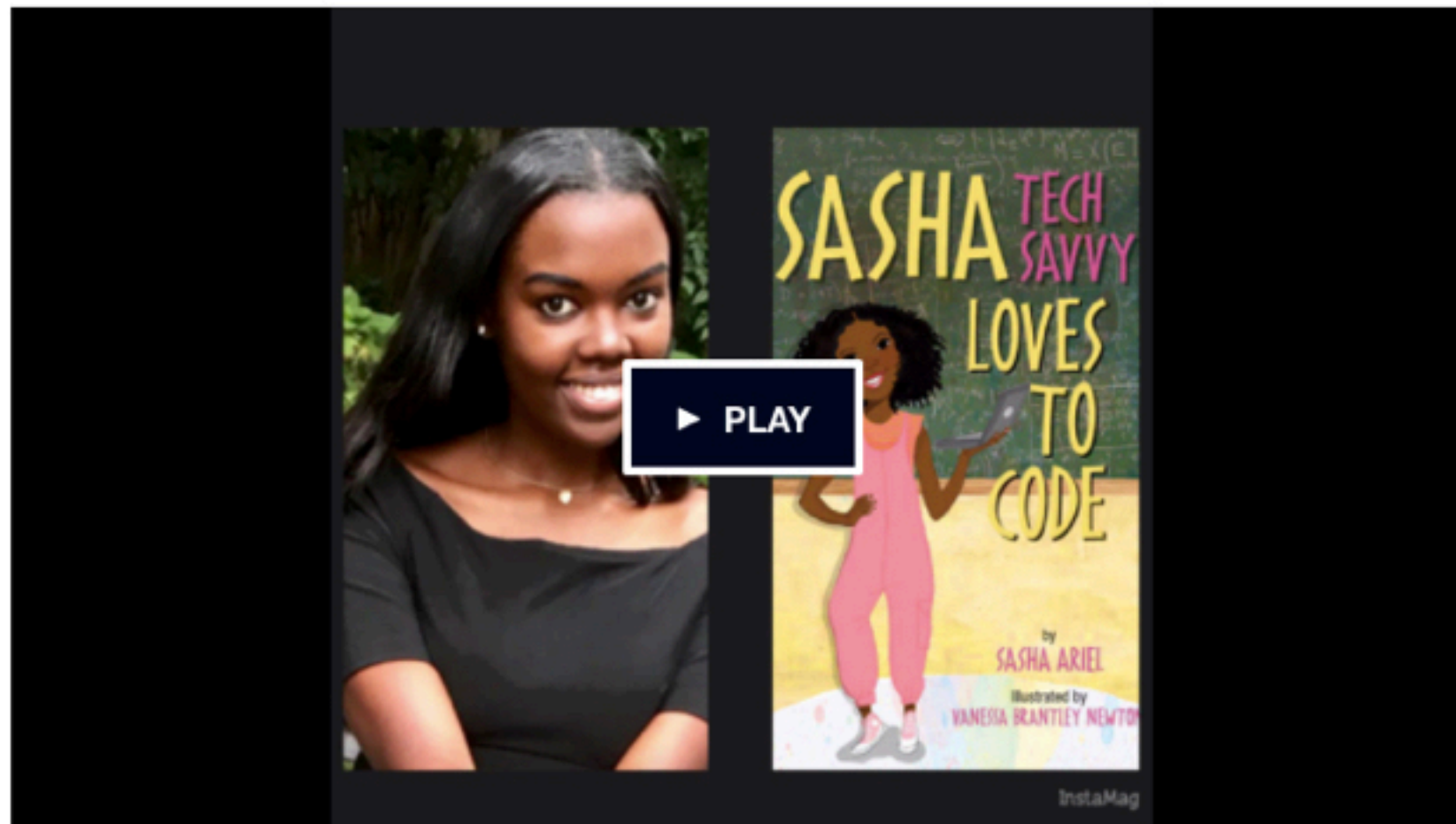
This 18-Year-Old Makes Innovative Prosthetics From Recycled Plastic

Form5, founded by high school student Aaron Westbrook, wants to create a series of more sustainably sourced devices.



"I kind of joke [that] Form5 is a one-man, one-hand show." [Photo: courtesy [Form5 Prosthetics](#)]

About this project



📍 Washington, DC

📖 Children's Books

\$17,602

pledged of \$5,000 goal

529

backers

Support this project

Pledge \$1 or more

GO SASHA

For a pledge of \$1.00 or more, you will receive a virtual high-five.

ESTIMATED DELIVERY
Mar 2017

36 backers

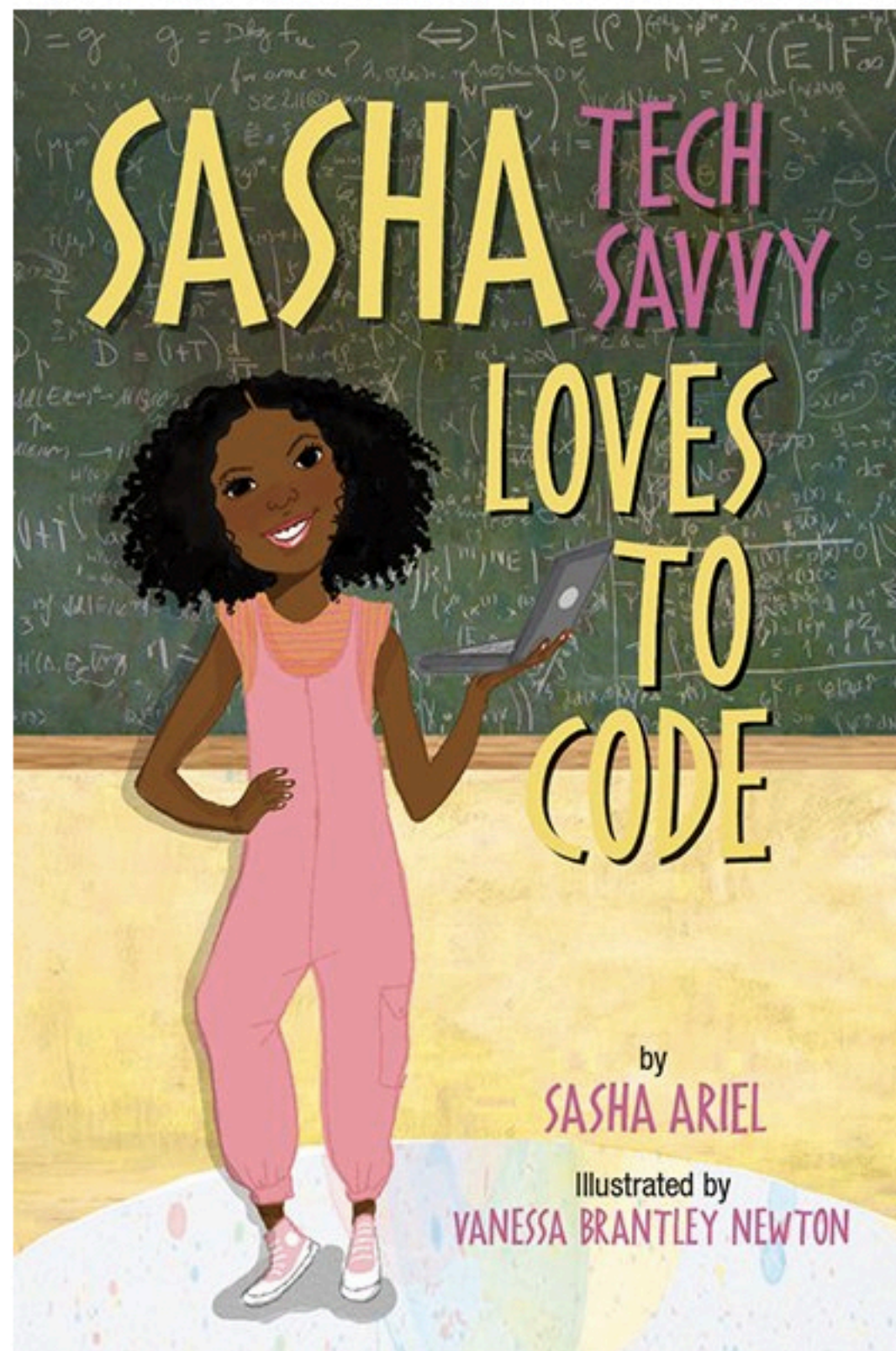
Pledge \$12 or more

TECH SAVVY

For a pledge of \$12.00 or more, you will receive one E-BOOK version.

ESTIMATED DELIVERY
May 2017

86 backers



SASHA TECH SAVVY

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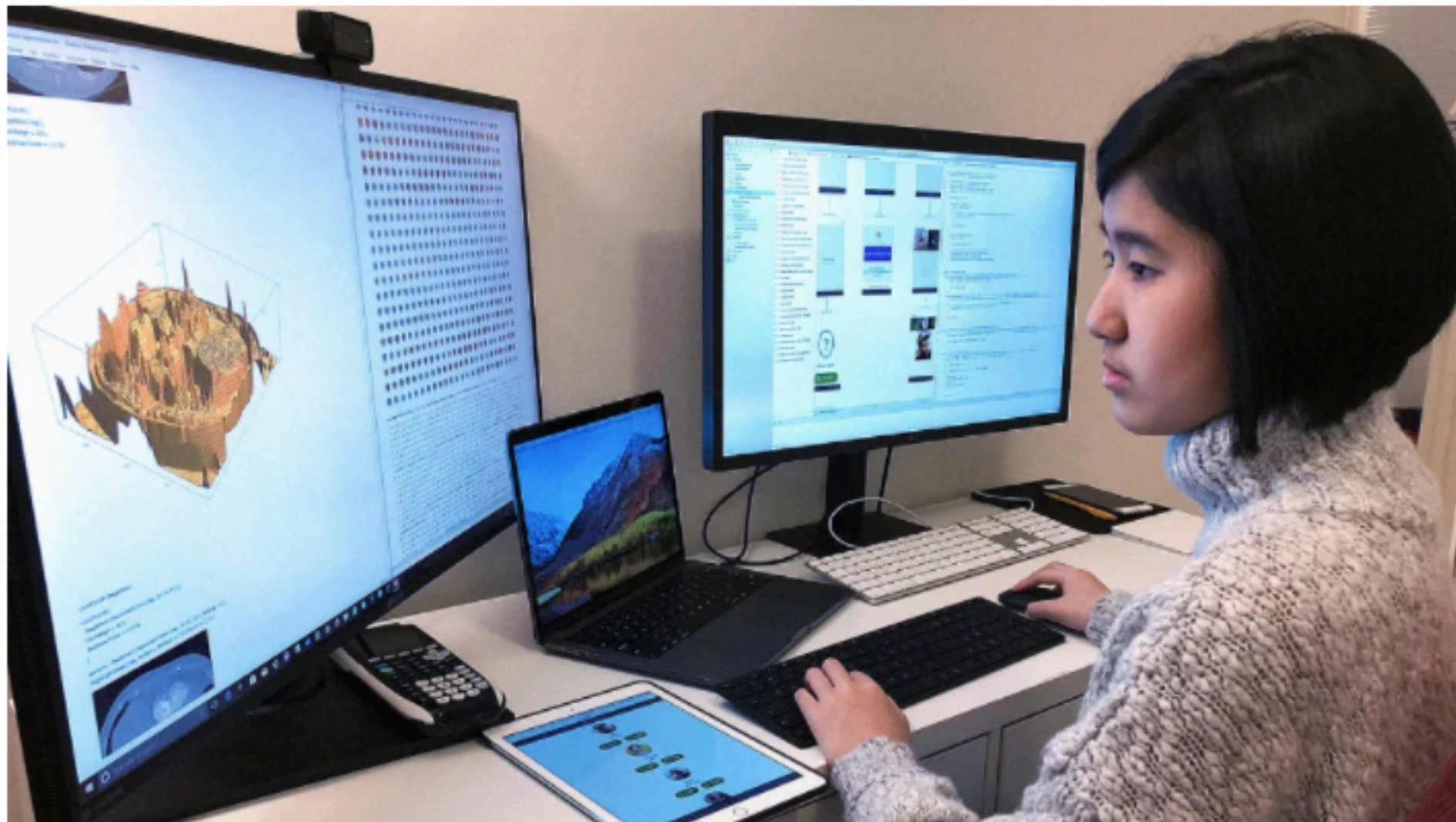
by
SASHA ARIEL

Illustrated by
VANESSA BRANTLEY NEWTON

01.24.18 | 6:30 AM | WORLD CHANGING IDEAS

A 14-Year-Old Made An App To Help Alzheimer's Patients Recognize Their Loved Ones

After watching her grandmother struggle to remember her own family members, the young coder Emma Yang decided to figure out how to use AI and facial recognition to help her—and others coping with the illness.



[Photo: Emma Yang]

01.24.18 | 6:30 AM | WORLD CHANGING IDEAS

A 14-Year-Old Made An App To Help Alzheimer's

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FUNDING

Timeless - A Mobile App for Alzheimer's Patients

A simple and easy to use mobile app to help Alzheimer's patients live a better daily life.



Emma Yang
New York City, United States
[About](#)

\$1,620 USD raised by 11 backers

3% of \$50,000 [flexible goal](#)

2 months left

BACK IT



OVERVIEW

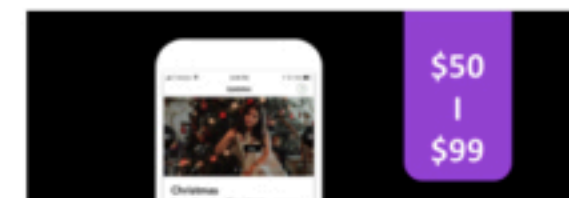
HEALTH & FITNESS




Have you seen the movie "Alice"? Have you ever experienced the difficulties Alzheimer's patients face as a result of memory loss?

Timeless is a first-of-its-kind, easy to use mobile app for Alzheimer's patients to remember events, stay engaged & connected with friends and family, and to recognize people

SELECT A PERK



[Photo: Emma Yang]



INNOVATION MY STORY YOUTH

Meet the 17-Year-Old Boy From Telangana Who Invented a Unique Device to Prevent Rape

Fuelled by the protests following the Nirbhaya rape case, 15-year-old Siddharth Mandala came up with an invention to stop further incidents of rape – the ElectroShoe.



Meet Inventor

Fuelled by the desire to stop further

The invention process was an uphill climb as I ran into countless problems. With the help of many great mentors from LinkedIn and social media, I taught myself programming in various languages. I would spam them every time my code didn't work. Fed up, some of them even stopped replying. My prototype failed 17 times. While experimenting, I faced electrocution twice, and my friend Abhishek even developed a nosebleed.

“

But whenever I felt like giving up, I remembered my favourite inventor Thomas Edison's words, “I didn't fail 1,000 times. The light-bulb was an invention with 1,000 steps.”

It took me two years to build a working prototype. In the end, the hard work paid off and I was able to create a working prototype of the shoe. I felt like a superhero. It felt amazing to know that if this product could reach the people, I might be able to save at least a few lives.

/ho

nvention to



Learning is leaving the building

Learners can learn almost

anything they want

anytime they want

anywhere they are

with **whomever** they want.

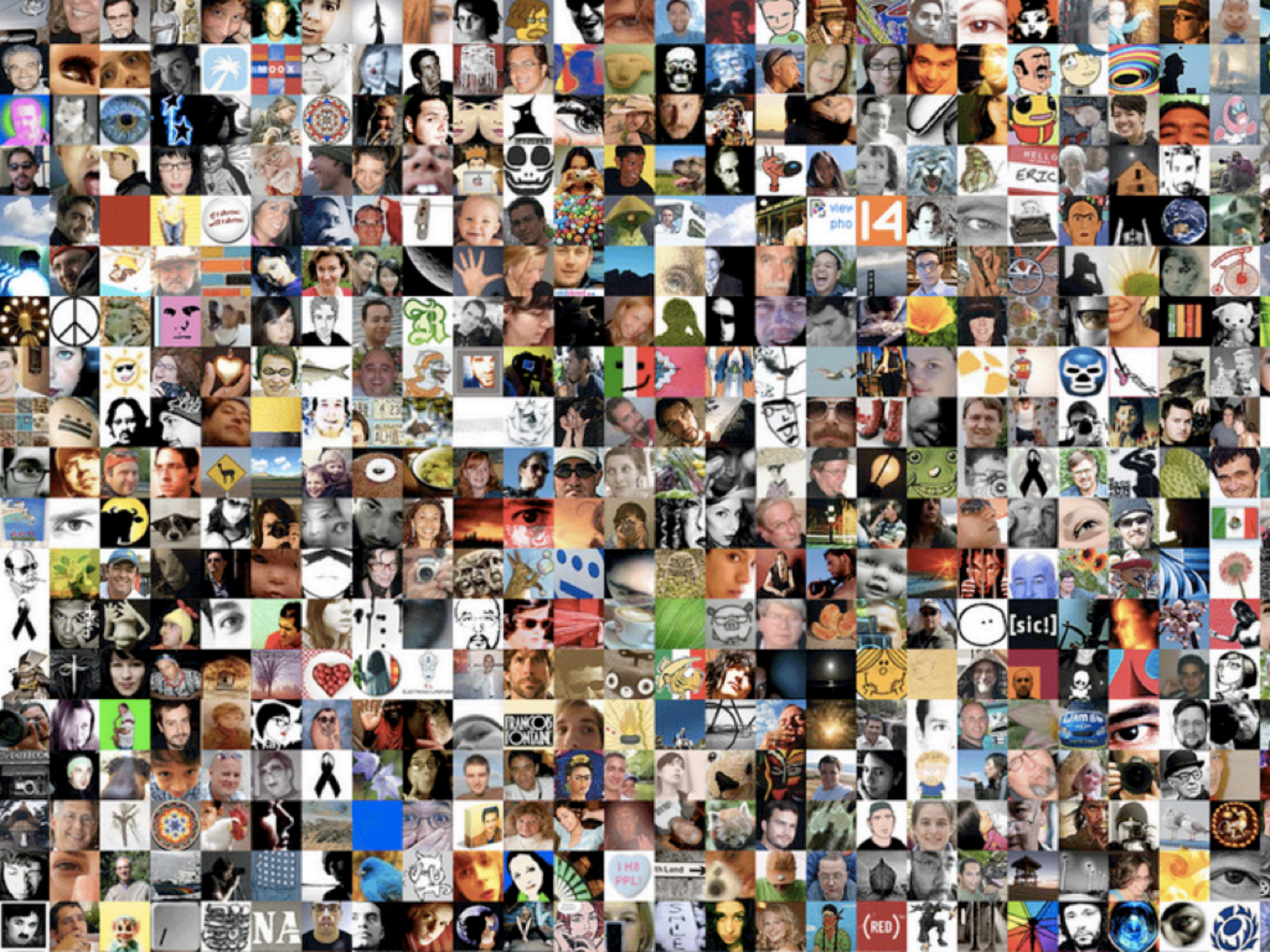
Biggest
Educational Shift
ever.

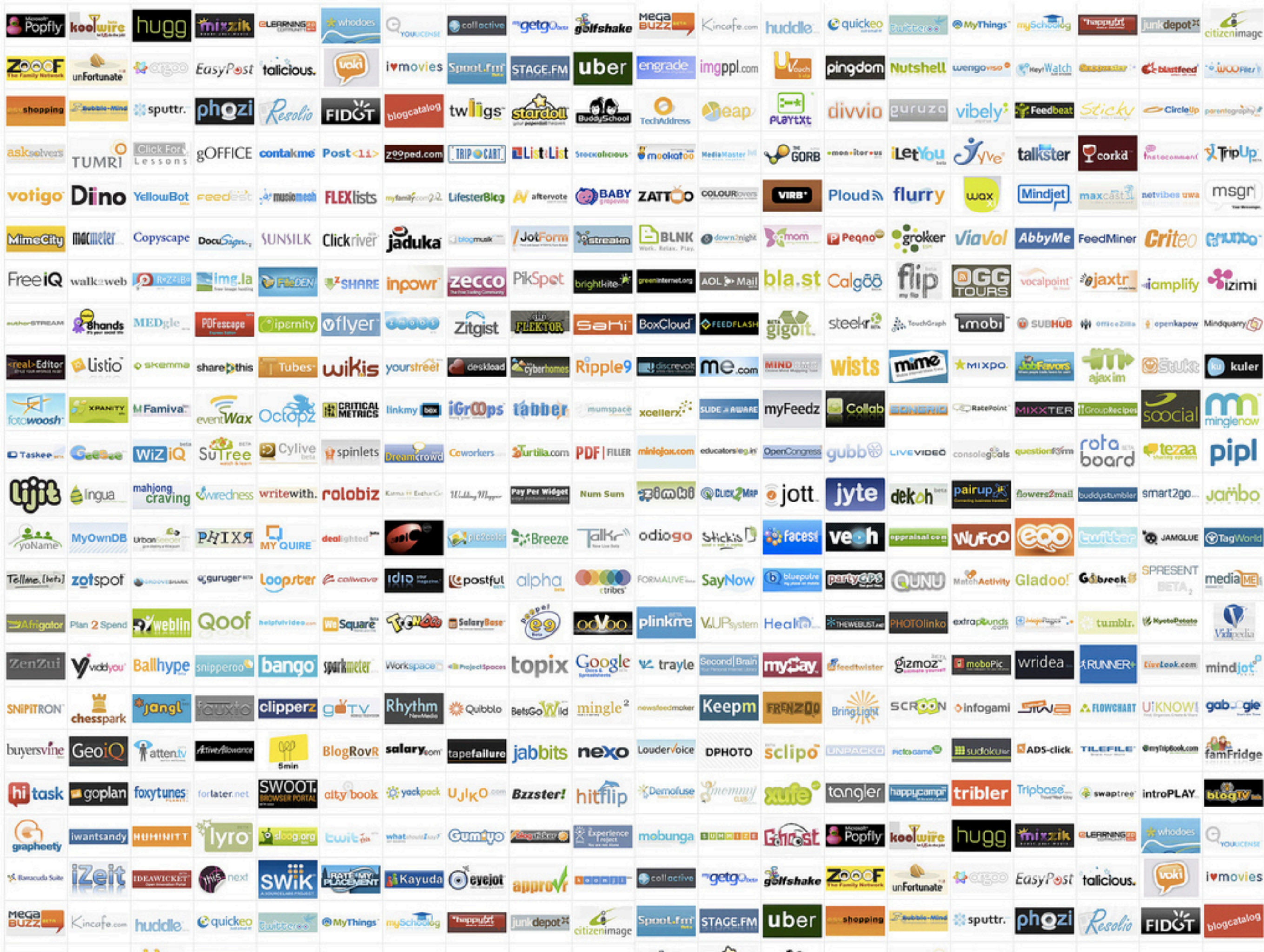
From **scarcity**...



From scarcity...
...to **abundance**









Unpleasant Truth:

**Schools were not created
for this moment.**

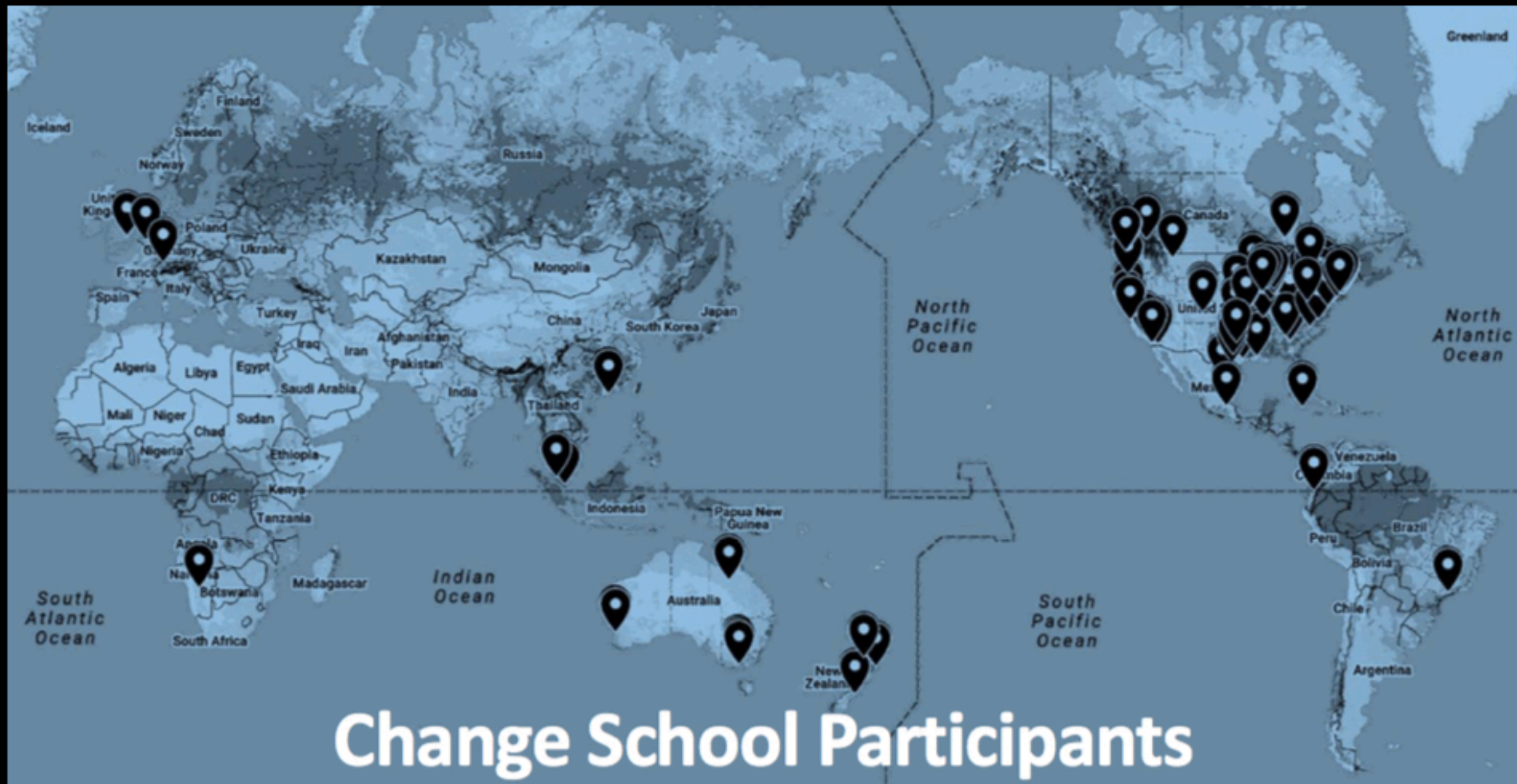
Time for **reimagination**...



Change.School



Changeleaders.Community



**To “reimagine” schools,
we have to understand the
three elements
of modern learning in schools...**

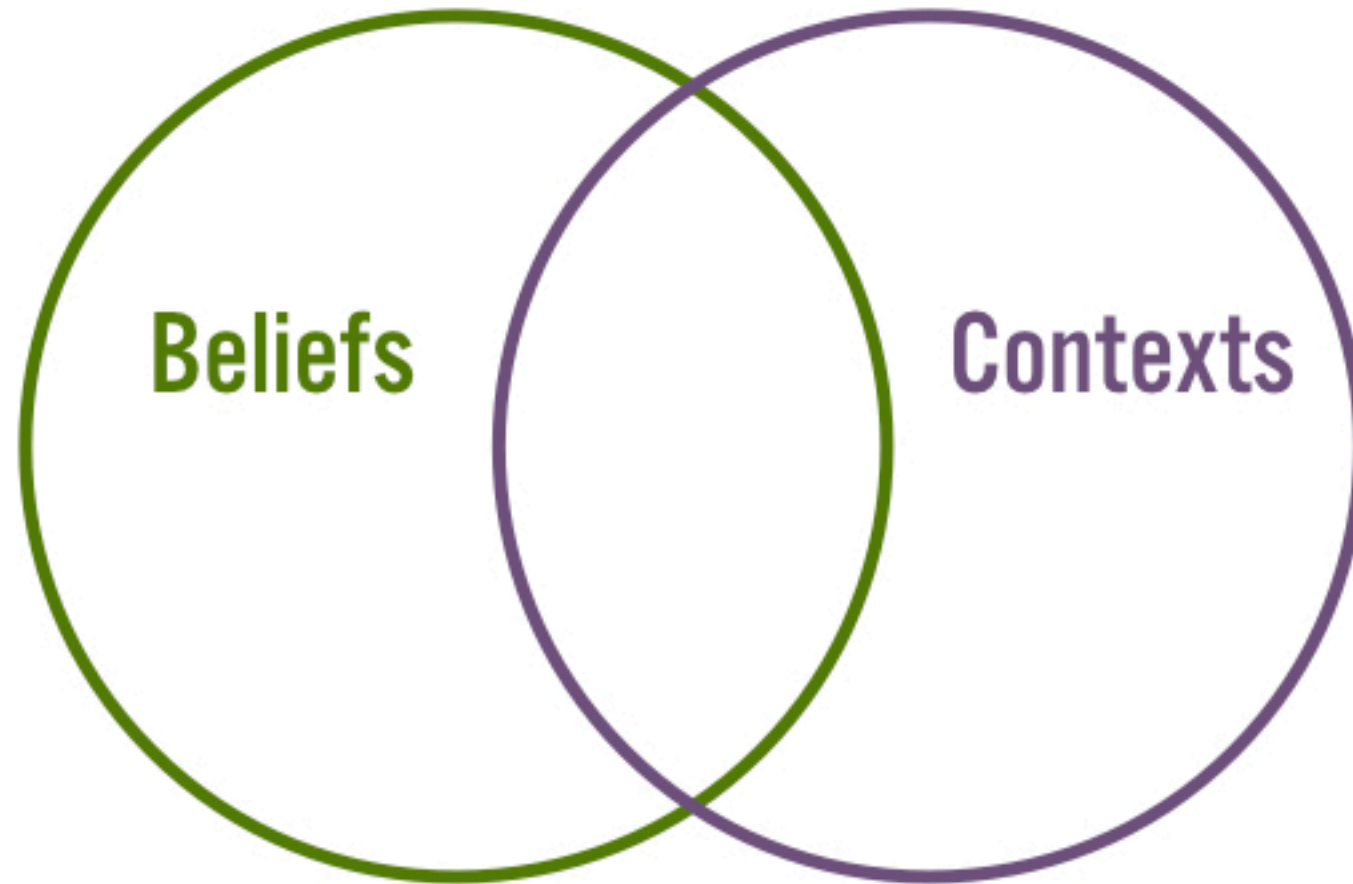
...the “Modern Learning Lens”

How do children learn most powerfully?



How do children learn most powerfully?

How is the world changing?



How do children learn most powerfully?

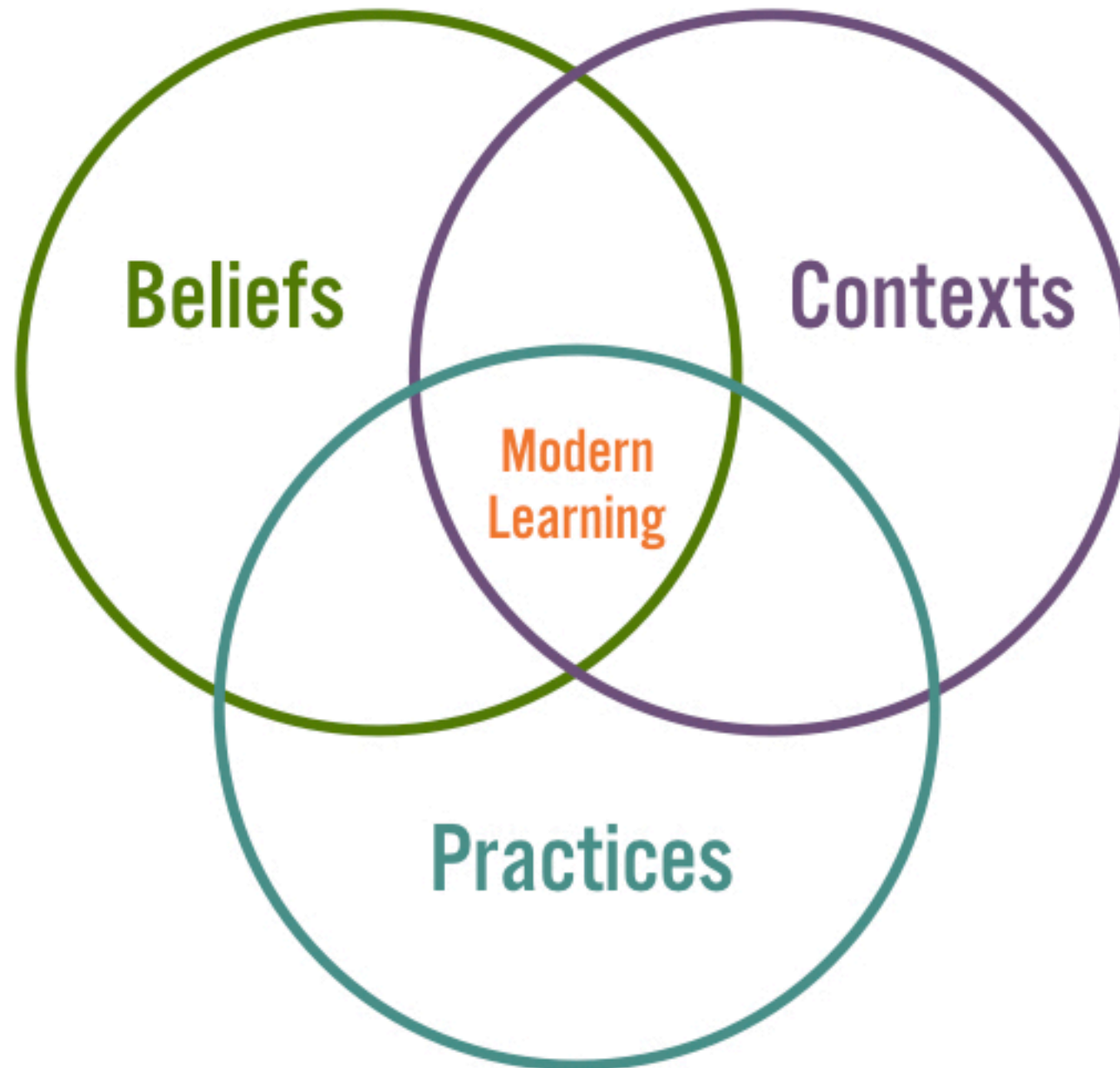
How is the world changing?



What must/can classrooms be?

How do children learn most powerfully?

How is the world changing?



What must/can classrooms be?

And, we need to realize that...



What it means to be
“Educated,”
“Literate,”
“Skilled,”
“Successful,”
are in
“Perpetual Beta”

So, what does **reimagination** look like?



**Work that Matters, Global Connections, Questions, Authentic Audiences,
Making, Agency over Learning, Exhibitions, Culture of Learning**



Wanting to learn **more**



EMPOWERING MODERN LEARNERS

INSPIRE • INNOVATE • IGNITE



#peel21st

WE BELIEVE

Each **LEARNER** is
CURIOUS,
COMPETENT ^{and}
able to take an
ACTIVE ROLE
in their own learning.

Effective
EDUCATORS
EMPOWER
LEARNERS TO ACHIEVE
personal excellence by being
OPEN, FLEXIBLE
and responsive
to their needs.

A POSITIVE, INNOVATIVE
LEARNING
ENVIRONMENT
empowers all of us to
GROW through
RICH, AUTHENTIC
RELATIONSHIPS
both locally & globally.

Together as a
COMMUNITY of
parents, educators and leaders
we share responsibility to
INSPIRE
our modern learners to be
ACTIVE, CRITICALLY
ENGAGED, GLOBAL CITIZENS.

THE ELEMENTS *in detail*

LEARNING CULTURE



...the learning process is one which engenders and reinforces wanting to learn more. Absent [students] wanting to learn, the learning context is unproductive.

Seymour B. Sarason

Learning cultures should foster curiosity, establish empathy amongst learners, and encourage lifelong learning. They promote a growth mindset, create safe spaces, and facilitate co-learning. These dynamic cultures encourage and facilitate opportunities for purposeful risk-taking and agency in the learning process, while fostering a questioning disposition. The creation of a sustainable learning culture requires a unified commitment from classrooms, schools and the system as a whole.

How are successful learning cultures created and sustained?

INFORMATIVE ASSESSMENT



Clearly this shift in instructional design requires a corresponding shift in assessment practices. For students, assessment becomes less focused on documenting what has and has not been learned and more focused on charting the learning journey for continued success.

Bennett & Armstrong

Informative assessment guides every part of the learning process. Deep, lasting learning is achieved when a transparent and equitable approach to assessment is used. Active involvement of learners in the assessment process connects them with their learning and fosters reflection and a drive to learn more. Providing multiple and varied ways for learners to demonstrate learning and make their thinking visible allows for continuous, ongoing feedback.

How is assessment used to inform the learning process for educators, parents and students?

ACCESS TO TECHNOLOGY



Pervasive access to digital tools and resources makes deep learning more possible through broadening the time and space in which students can connect with teachers, peers and others for idea generation, feedback, expertise and the assessment of progress. This inherently makes the learning process more social...

Michael Fullan

Reliable and equitable access to technology is fundamental to education today because it connects learners to the people, information and tools they need. Modern learners use technology to explore new possibilities, form new connections and participate as global citizens. Most important, access to technology gives all learners a voice to engage fully with their world — no matter who they are, or how they learn and helps us achieve inclusion for all.

How are digital devices important to learning?

21st CENTURY COMPETENCIES



At minimum, our certainty that the only thing we can claim about the future is its uncertainty provides reason enough to prepare students to be diversely skilled, nimble-minded and technologically savvy citizens.

Institute for Studies in Education

An ever-changing world requires both foundational skills as well as 21st century competencies for learners to be successful. These competencies include building knowledge, developing skills and cultivating attitudes which are interdisciplinary.

21st Century Competencies:

**CRITICAL THINKING & PROBLEM-SOLVING
LEARNING TO LEARN
INNOVATION & CREATIVITY**

**COLLABORATION
COMMUNICATION
GLOBAL CITIZENSHIP**

Although these competencies have always been essential, how have they evolved over time, and why are they so important today?

LEARNING ENVIRONMENTS



...it is about creating stimulating school environments and these may not always be contained within four walls.

Ontario Public School Boards' Association

Learners excel when they feel safe, challenged, and in control of their own learning. Learning environments involve far more than the physical and virtual classroom; they support a climate that nurtures well-being and responds to the cognitive, emotional, and social needs of learners. These spaces should be intentionally designed and co-constructed by everyone involved in the learning process. A dynamic learning environment is responsive, flexible and adaptable.

How do we co-create a learning environment that supports all learners?

MODELS OF LEARNING



To truly be empowered, people need both ownership and autonomy.

George Couros

In a world of immediate access to information, we must integrate models of learning that are student-centred and facilitate relevant and authentic explorations of that information. Knowledge building, inquiry, design thinking, and blended learning are a few possible frameworks that allow learners to explore big ideas, make real-world connections and link to their passions, while integrating technology. Employing a variety of learner-inspired models makes learning meaningful and the curriculum authentic.

What models of learning best suit your learners?



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We are a school of inquiry, innovation, and impact. Grounded in Christian values we prepare all students to be college ready, globally competitive, and engaged citizen leaders.

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We are a school of inquiry, innovation, and impact. Grounded in Christian values we prepare all students to be college ready, globally competitive, and engaged citizen leaders.

VISIT MOUNT VERNON





Noah Geisel

@SenorG

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Need a Real World **#PBL** client for your students + maker space? Ashley and I will offer \$50 gift card for best prototype toy that gets Paco (our blind dog) to play for at least 2 minutes **#MakerEd**



6:52 AM - 22 Feb 2018

THE PACO PROJECT – A SERENDIPITOUS OPPORTUNITY



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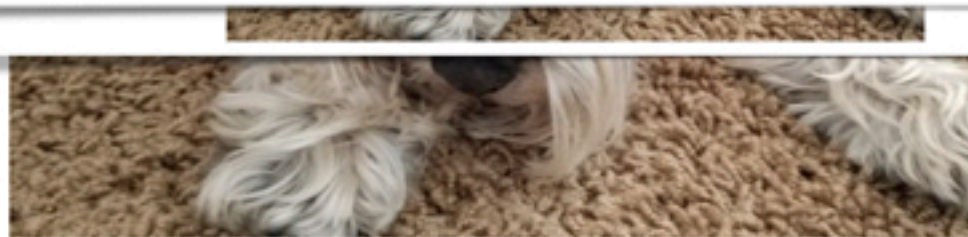
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THE PACO PROJECT – A SERENDIPITOUS OPPORTUNITY

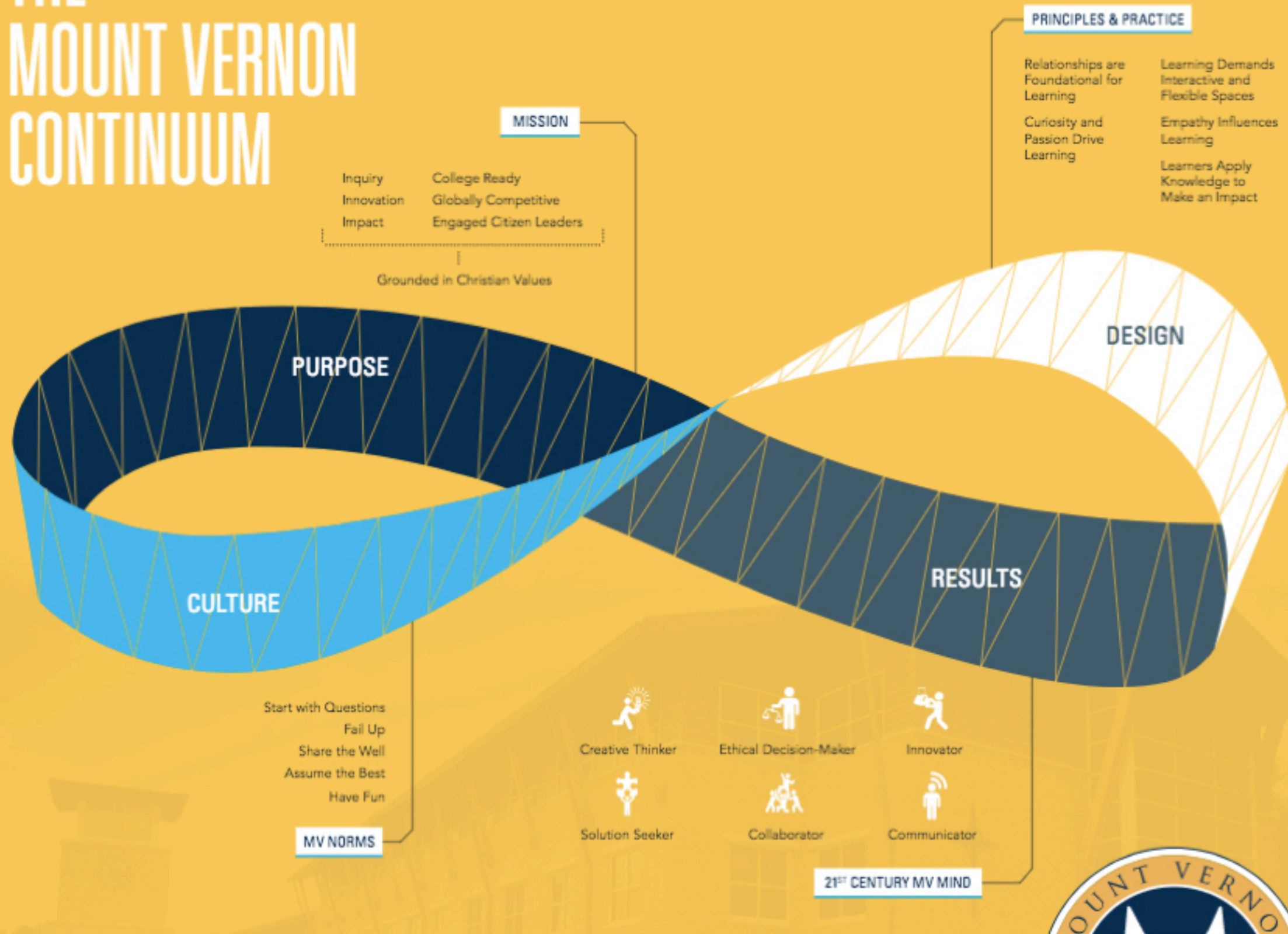
“This could also be a chance for our MVIFI team to test out some tweaks to our DT/MDE methodology that we’ve been tinkering with in an authentic setting – real user, real problem, real designers.

But more importantly, it would be an incredible opportunity for students to witness their ability to make an impact through the work they can do.”



6 days ago Learning from Navi Radjou at
business smart and WISDOM in wise leaders
Apply intelligence... <https://t.co/zZTKtKOSGn>

THE MOUNT VERNON CONTINUUM



THE MOUNT VERNON CONTINUUM

MISSION

Empower students to become
innovative, collaborative
learners who apply their knowledge
to make an impact

Beliefs:

Relationships are foundational for learning
Curiosity and passion drive learning
Learning demands interactive and flexible spaces
Empathy influences learning
Learners apply knowledge to make an impact

PRINCIPLES & PRACTICE

Relationships are
Foundational for
Learning

Learning Demands
Interactive and
Flexible Spaces

Curiosity and
Passion Drive
Learning

Empathy Influences
Learning

Learners Apply
Knowledge to
Make an Impact

PURPOSE

Start with Questions
Fail Up
Share the Well
Assume the Best
Have Fun

MV NORMS



Creative Thinker



Ethical Decision-Maker



Innovator



Solution Seeker



Collaborator



Communicator

21ST CENTURY MV MIND



THE MOUNT VERNON CONTINUUM

MISSION

Norms:

Start with questions
Fail up
Share the well
Assume the best
Have fun

PRINCIPLES & PRACTICE

Relationships are Foundational for Learning

Curiosity and Passion Drive Learning

Learning Demands Interactive and Flexible Spaces

Empathy Influences Learning

Learners Apply Knowledge to Make an Impact

PURPOSE

CULTURE

DESIGN

RESULTS

Start with Questions
Fail Up
Share the Well
Assume the Best
Have Fun

MV NORMS

Creative Thinker

Solution Seeker

Ethical Decision-Maker

Collaborator

Innovator

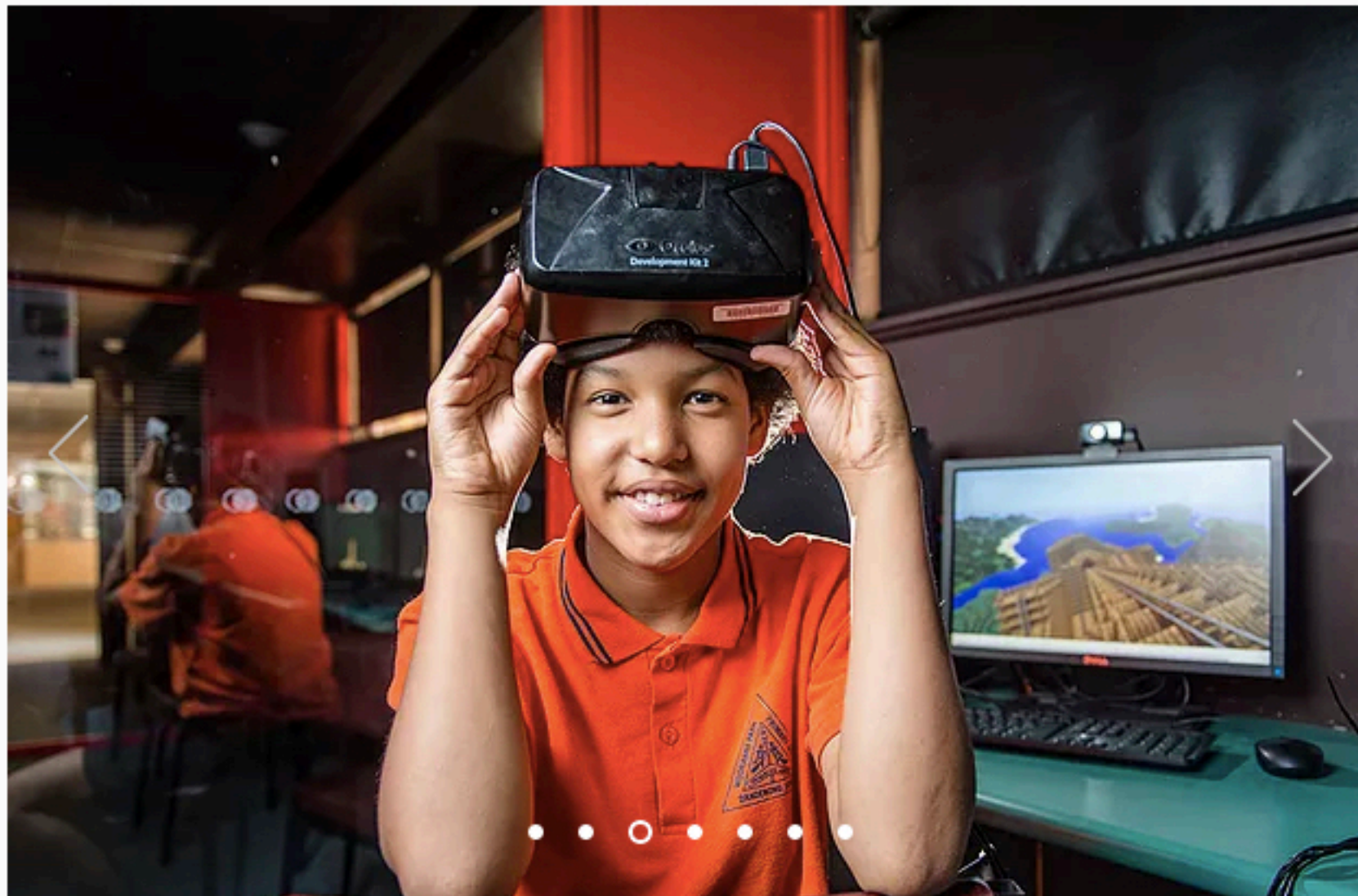
Communicator

21ST CENTURY MV MIND





WOORANNA PARK PRIMARY SCHOOL

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Welcome to Wooranna Park Primary School

"Wooranna Park Primary School endeavours to create a learning environment for students that prepares them to live in a rapidly changing world, caters for their personal needs and passions, and excites their thirst for learning." - Ray Trotter, Principal.

We invite you to learn more about Wooranna Park, and why we think it is one of the most amazing schools in Australia.

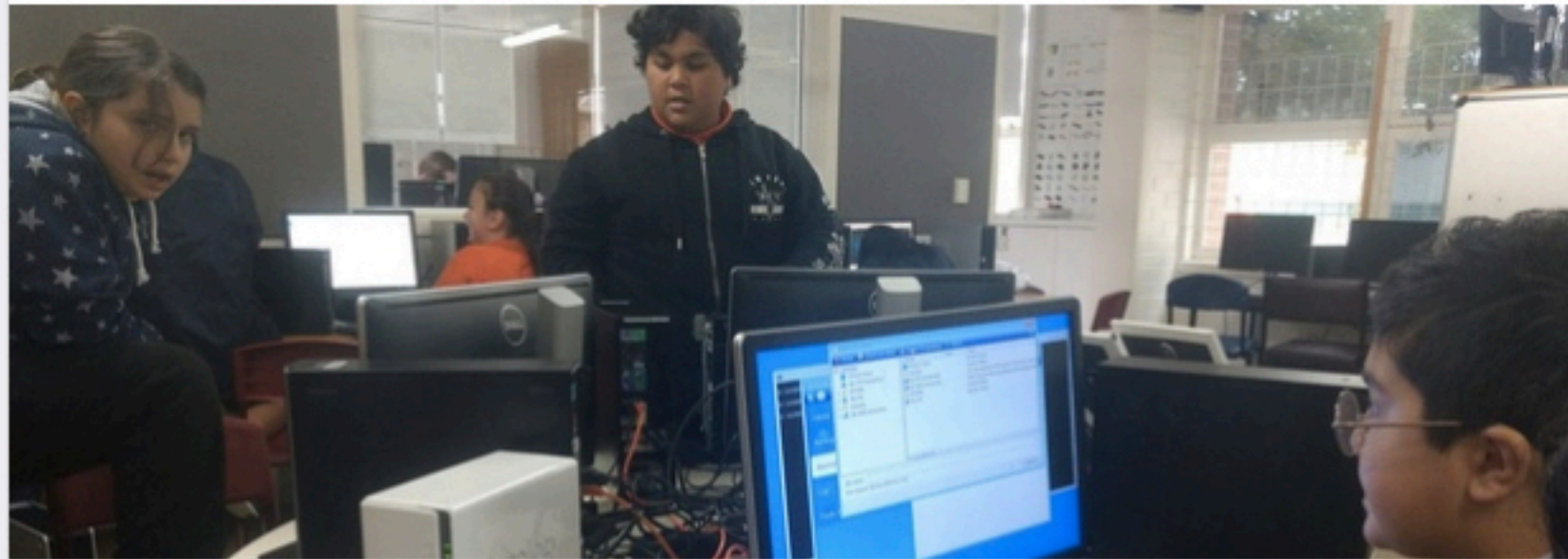
One Aussie primary school teaches cryptocurrency- and the world is paying attention



By [Sarah Duggan](#)

Published September 15, 2017

It's not only parents and special guests that have been perusing the Wooranna Park Primary School grounds of late.



Global:

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Global Agenda

To play is to learn. Time to step back and let kids be kids

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Play is crucial to building skills – and yet children have less and less time for it in the modern world

Image: Frank McKenna/Unplash

25 Jan 2018

[John Goodwin](#)

This article is part of the [World Economic Forum Annual Meeting](#)

New Zealand:

NEW ZEALAND / EDUCATION

National standards ditched by government

9:57 am on 13 December 2017

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John Gerritsen, Education Correspondent
@RNZeducation john.gerritsen@radionz.co.nz

This year's achievement rates in the national standards in reading, writing and maths will remain a mystery after the government began the process of ditching the standards.



British Columbia:



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COLUMBIA

BC's New Curriculum

English Français

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New Curriculum

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The world is changing. Parents want their kids ready to succeed. So do teachers. So do we.

That's why it's critical that we modernize our education system (designed in the last century), so students can succeed in the 21st Century.

California:

One Valley School District's Unorthodox Educational Approach: No More Grades


By JEFFREY HESS • AUG 25, 2015

PROGRAM
Valley Public Radio
News

PROGRAM
Valley Edition


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4:31

As students head back for another year of school, one small district in the valley is on the cutting edge of education. The Lindsay School district has eliminated grades and grade levels. School leaders say the scheme has transformed education.

Kansas:

Kansas schools may no longer group students by grade level as part of plan to remake education system



Photo by Peter Hancock. [Enlarge photo.](#)

Kansas Education Commissioner Randy Watson presents the latest student performance data to the Kansas State Board of Education on Tuesday.

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By [Peter Hancock](#)

[October 18, 2017](#)

TOPEKA — Kansas public school officials are launching a project to overhaul the way education is delivered in the state through a project that they say is so ambitious, they are likening it to the NASA moon missions of the 1960s.

Kansas:

Kansas schools may no longer group students by grade level as part of plan to remake education system



"We have a 10-year journey, as we talked about this morning. It's a serious journey. We're trying by 2026 to **totally redesign K-12 education for all 286 school districts."**

Photo by Peter Hancock. Enlarge photo.

Kansas Education Commissioner Randy Watson presents the latest student performance data to the Kansas State Board of Education on Tuesday.

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“We must rethink education, employing innovative and collaborative solutions.”

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A Broken Tool

The high school transcript aims to assess student progress and performance, but it is a broken instrument that no longer serves students, teachers or the world outside our school walls.





“There is zero research in the world that supports letter grading. **None.** It has never existed...Other than a terrible idea that has been corrupted, it’s fine.”

~ Scott Looney
Hawken School
Mastery.org

**To “reimagine” schools,
we have to ask and answer more
fundamental questions:**

What is learning?

What is learning?

What are the greatest potentials of children?

What is learning?

What are the greatest potentials of children?

What are our deepest commitments to children?

What is learning?

What are the greatest potentials of children?

What are our deepest commitments to children?
(Are we keeping those commitments?)

What is **learning**?

What are the **greatest potentials** of children?

What are our **deepest commitments** to children?

(Are we **keeping** those commitments?)

What is the **value of school** in the modern world?

What is **learning**?

What are the **greatest potentials** of children?

What are our **deepest commitments** to children?

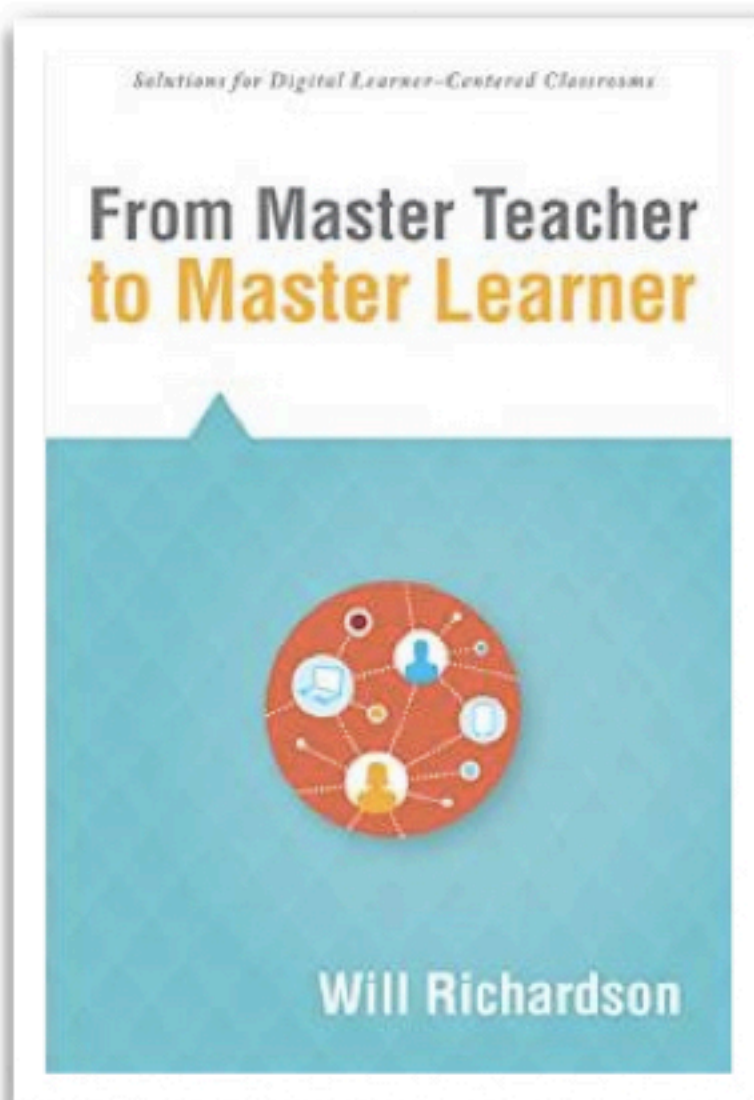
(Are we **keeping** those commitments?)

What is the **value of school** in the modern world?

What are our “**unpleasant truths**”?



And, we need to **embrace** our
“unpleasant truths.”



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