Learning, teaching and leading for the innovation age

Professor
John Fischetti

A Different Kind of Teacher for a Different Kind of School

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John Fischetti

World Population

7,688,464,285

London 4:45
Moscow 6:45
New York 11:45 Sun PM
LA 8:45 Sun PM
Tokyo 12:45 PM
Sydney 1:45 PM

World Clock

- Pop Clock
  - Pop by Demographics
  - Africa
  - Americas
  - Asia
  - Europe
  - Oceania
  - Future
  - Past
  - Births
- Health Clock
- Earth Clock
- Civ Clock
- Regional Clocks

Yr Mth Wk Day Now

Population Clock

This workshop will explore these issues and

help each leader form a roadmap

for his/her school toward where we are heading.

What is one innovation
that is
on track
in your school?

What is one innovation that is NOT on track in your school?

for too long
schools have been places
young people go
to watch their teachers work

we're holding on to

the schools that we know

rather than evolving the schools

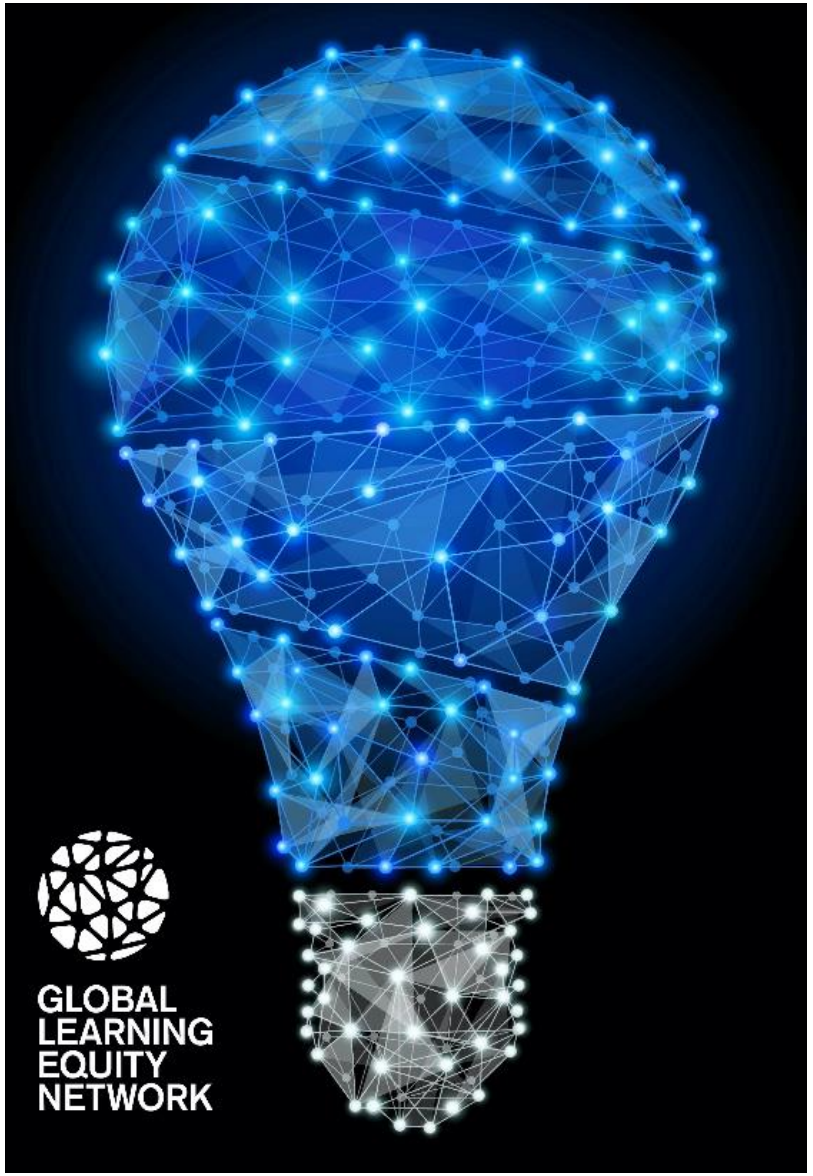
that we need

and assessment

is holding us

back

How many of
your current students
are fully switched on
to their schooling?



We have this many of our staff switched on to switching on kids?

Activate

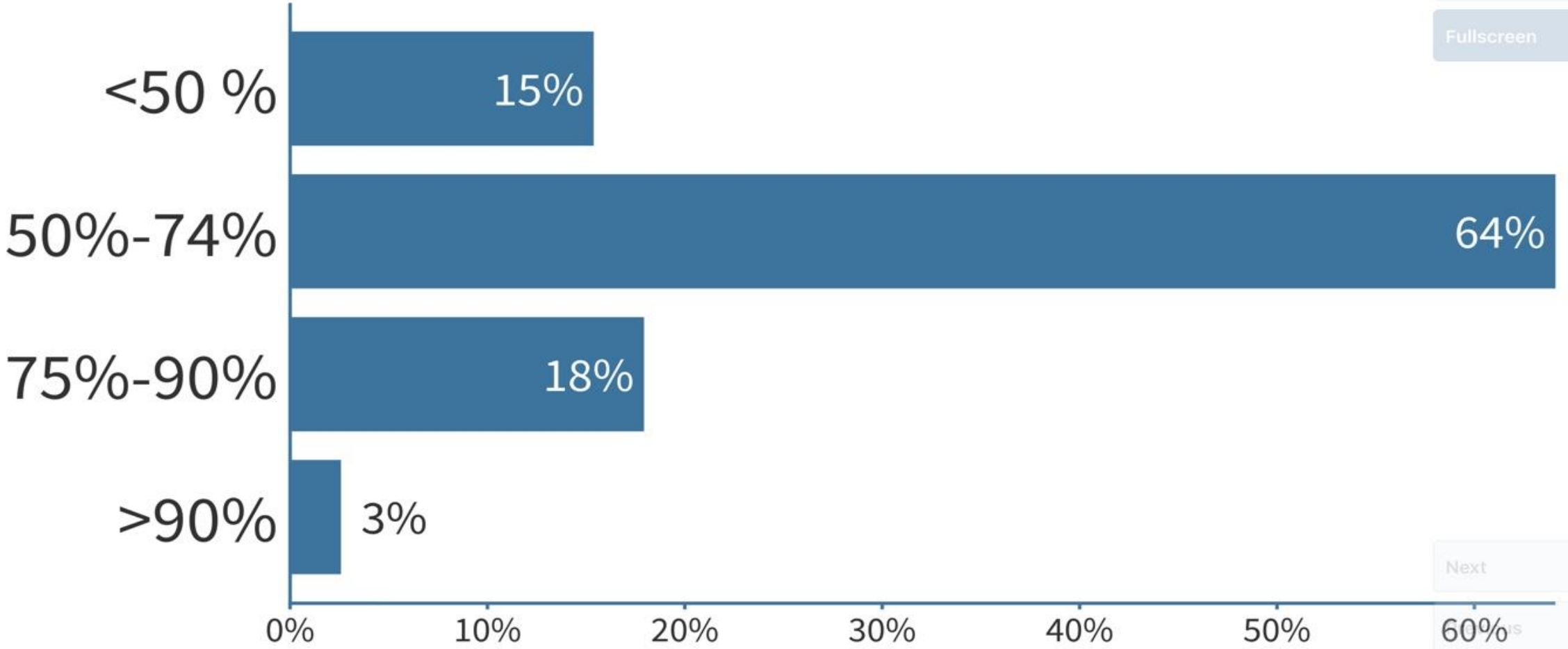
Show results

Lock

Clear results

Fullscreen

Poll locked. Responses not accepted.

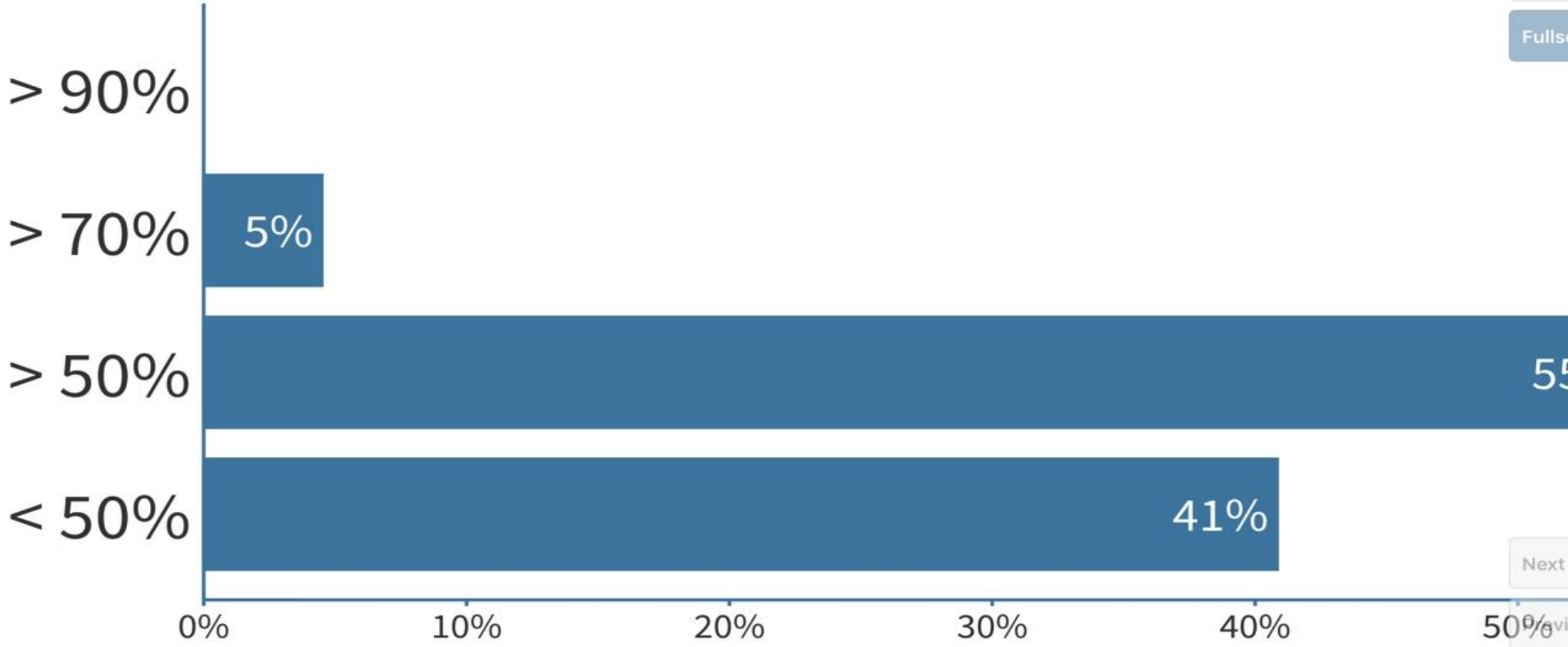


Next

How many of your current students are fully 'switched on' to their schooling?

Visual settings
Activate
Show results
Lock
Clear results
Fullscreen

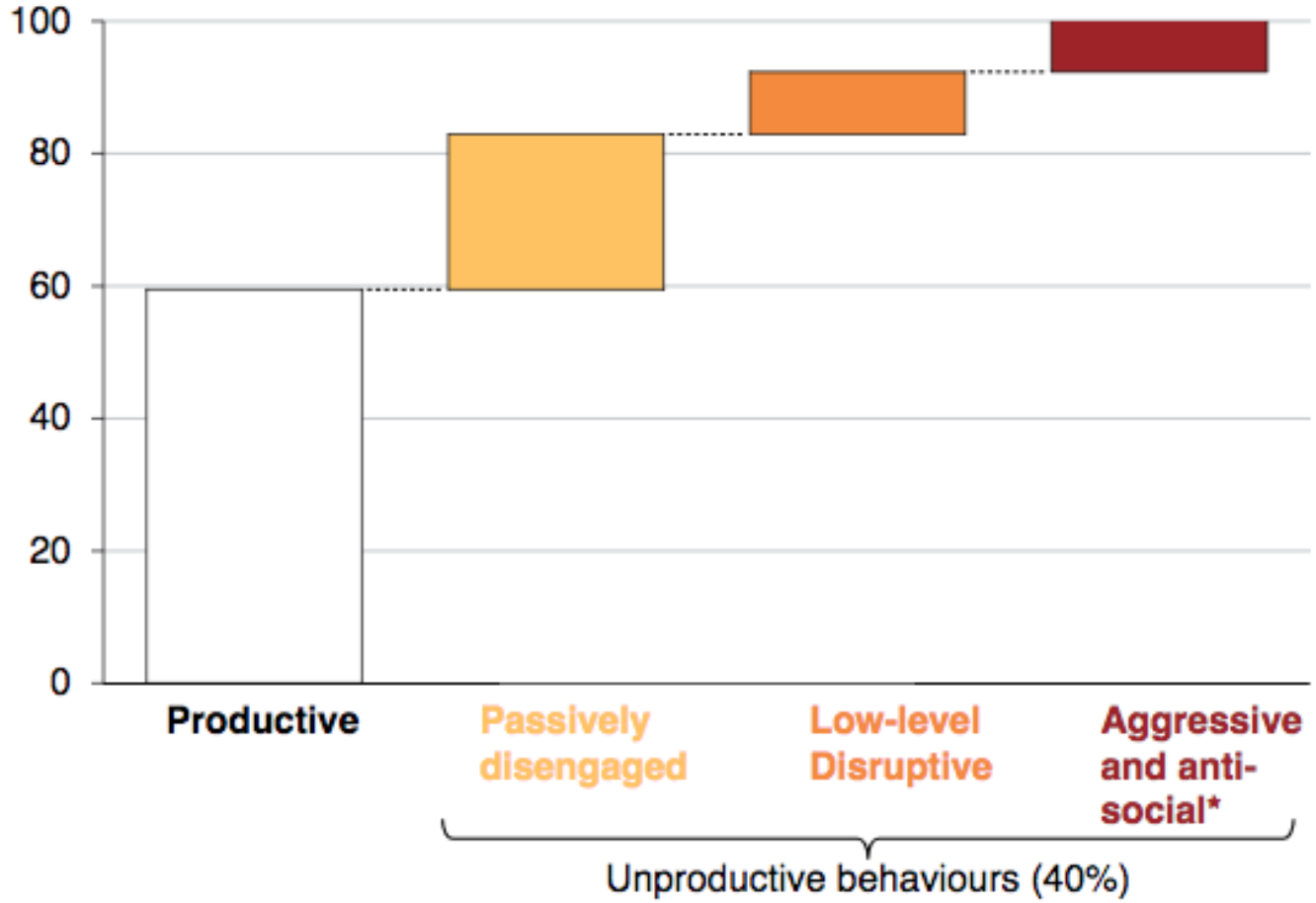
Poll locked. Responses not accepted.



Next
Previous

Figure 2.1: About 40 per cent of all students are regularly unproductive in a given year

Percentage of students



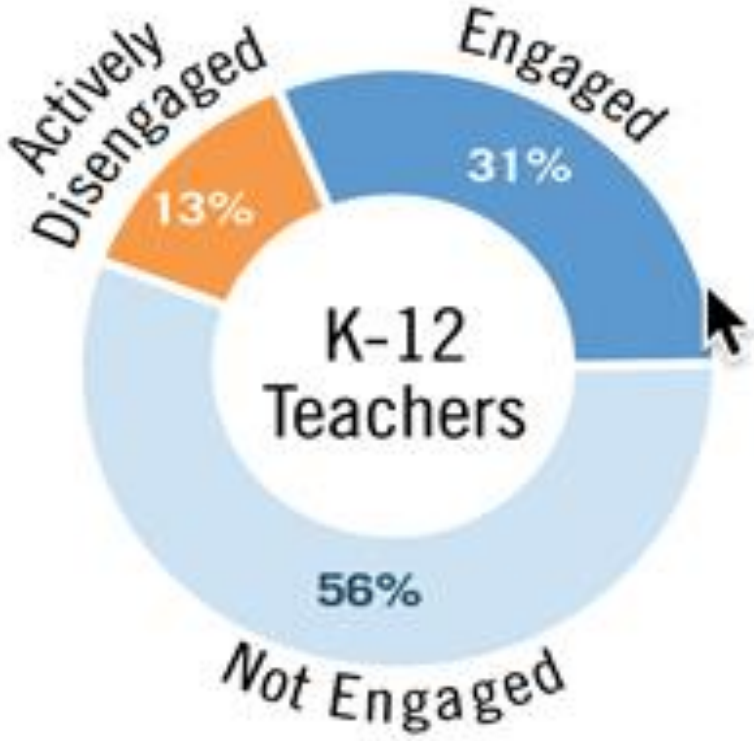
*Notes: * Called uncooperative students in Angus et al. (2009). Percentage of students productive vs. unproductive is averaged across 4 years (2005-2008).*

Source: Angus et al. (Ibid.).

Grattan Institute, 2017

Teacher Engagement

Teachers' engagement levels at work are similar to those of the general workforce, according to a 2012 Gallup poll of 70,000 U.S. employees. Gallup measures employee engagement through an index that incorporates responses to 12 questions related to the workplace. The questions dealt with clear expectations from supervisors, access to necessary resources, employer feedback and praise, having "a best friend at work," and a sense that a worker's "opinion seems to count."



70,000 U.S. employees were surveyed, including 7,200 teachers from K-12 schools.

This disengagement is a failure for the individuals and a tragic loss of human capacity for young people to be relevant in the innovation age where critical thinking, problem solving, adaptive reasoning and collaboration are core skills.

In the ‘new school’ era we are heading toward, schools will no longer be places young people go to watch their teachers work. They are learning centres, with student engagement at the forefront and personalized approaches focusing the instruction on the needs of the learner.

Emerging virtual reality and artificial intelligence systems (immersive technologies) will require the reinvention of content delivery and leapfrog pedagogies to new frontiers of exploring and mastering ideas and knowledge. Students in this new school approach are at the centre of the learning as they accomplish the syllabus in ways that work for each of them.

Assessment from here will be formative and used to modify instruction to meet the needs of learners in real-time. In this dynamic learning environment, a new approach to classroom and school leadership is vital.

We are on the precipice of a massive transformation of schooling and the assumptions around the education of children around the world. The current “old school” paradigm of teaching and learning is based on students sitting passively in rows, completing a required syllabus in the order they are told to do so, and with very little choice.

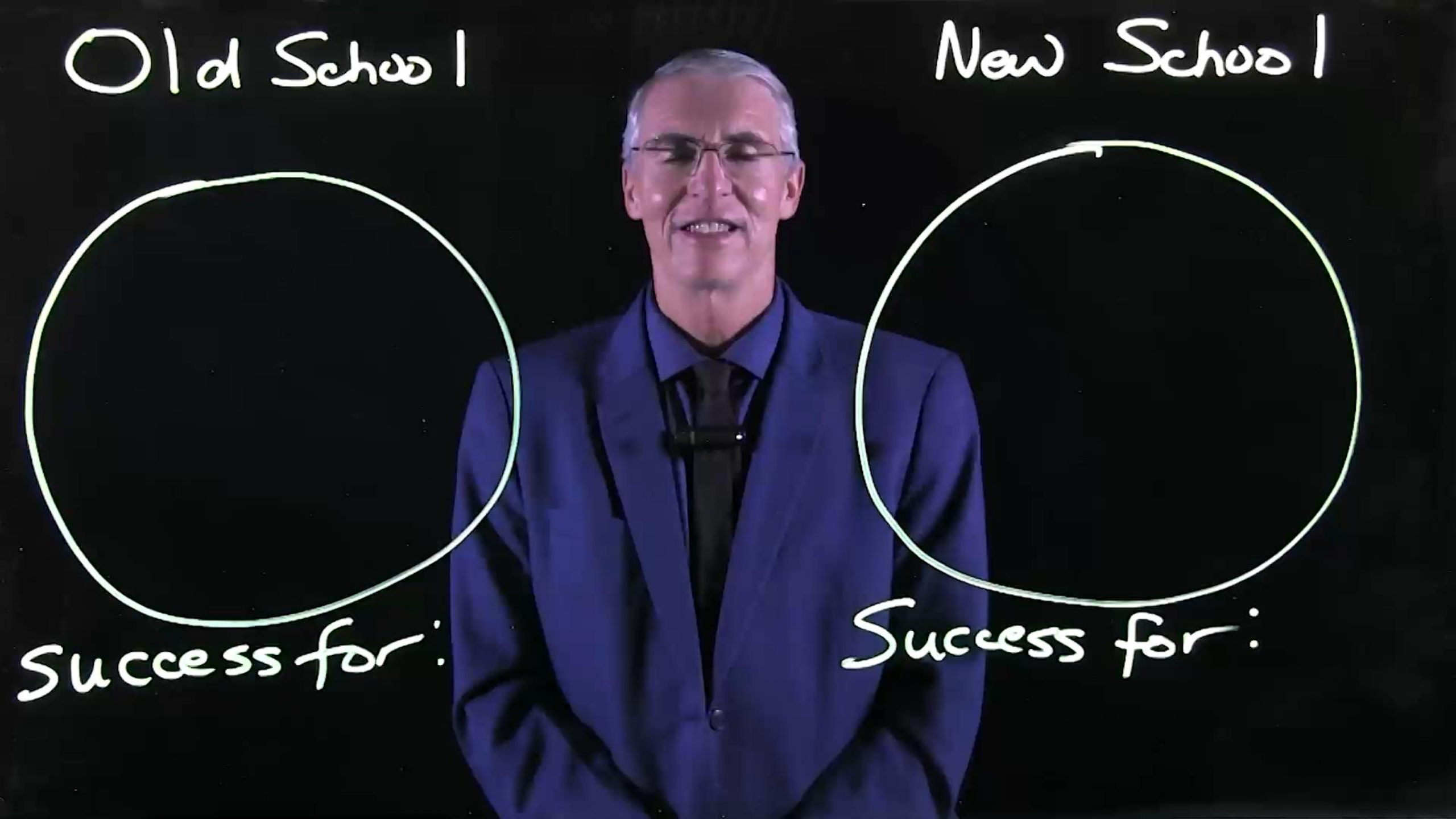
School leaders will need a new set of skills to help them create the learning environments that empower every child for success and embrace the culture and expectations of the community as vital partners in the process.

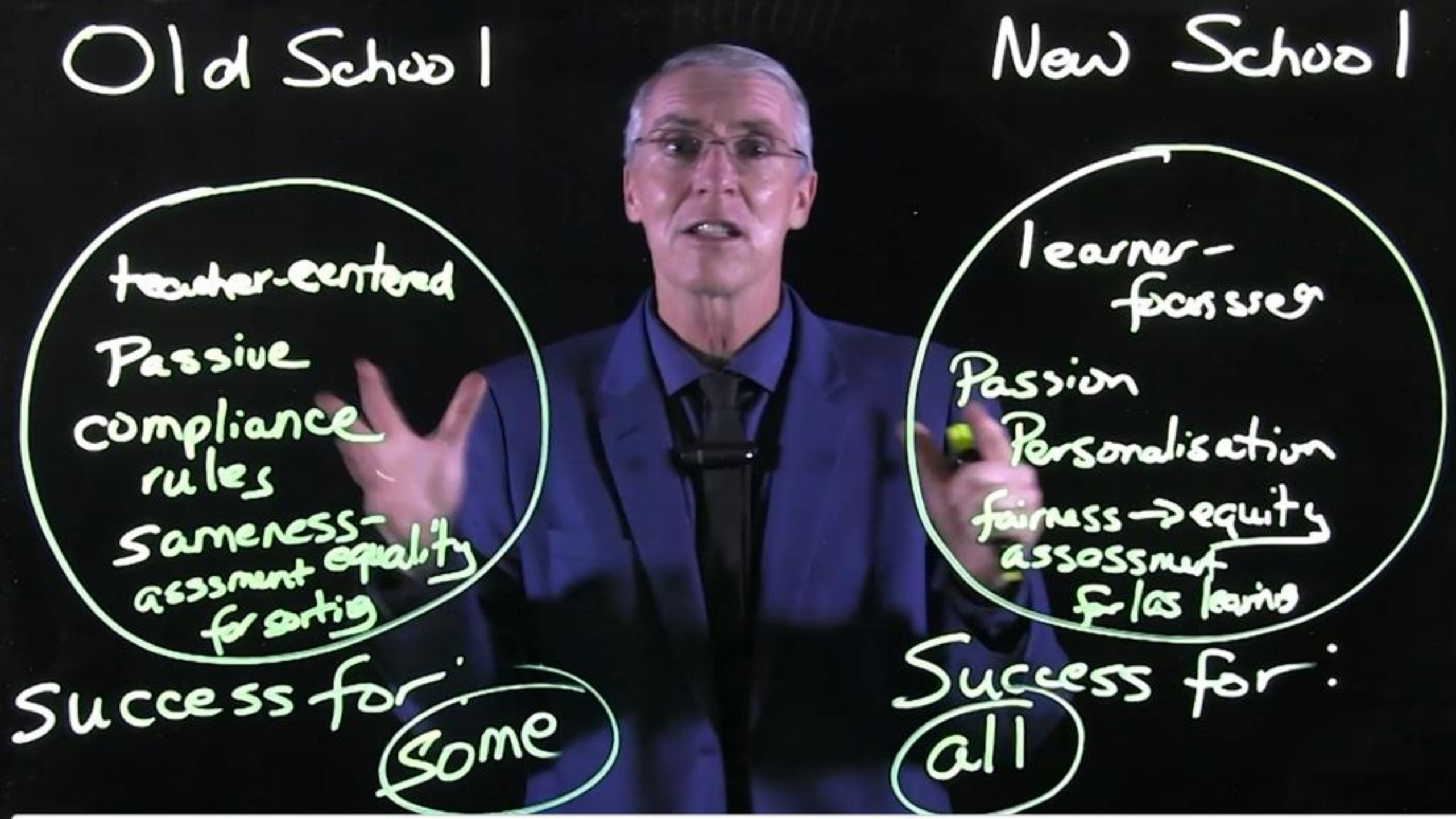
Adaptive reasoning, Critical thinking, Creativity, Problem solving, Collaboration, Open-Mindedness, Well-being, Indigenous perspectives, Cultural competence, Global awareness, Ethics, Digital literacy, …

Literacy
Numeracy

Compliance, Passivity, Rules, Teacher-focused

Personalised, Passion-based, Learner-focused


Old School
New School
Success for:
Success for:


Old School
teacher-centered
Passive
compliance
rules
sameness-equality
assessment for sorting
Success for: some
New School
learner-focussed
Passion
Personalisation
fairness → equity
assessment for learning
Success for: all

‘Sit and Git’

Compliance Passivity Rules


HIKERS and BIKERS
Move to the side of
the road when a
vehicle approaches

‘Sit and Git’

‘Sit and Git’

Compliance Passivity Rules


HIKERS and BIKERS
Move to the side of
the road when a
vehicle approaches


3D

Olympic Gold Medalist Debuts 3-D Printed Shoes at London Marathon

Kenyan long-distance runner Eliud Kipchoge won the London Marathon with Nike's Flyprint brand shoe, which is believed to be the first-ever 3-D printed performance footwear.

The goal of learning for all is to design schools based upon and built around the needs of learners rather than the syllabus or the needs of adults.

This is the direction we are heading led by great educators in around the world who have adopted promising school designs.


NETFLIX

every child

deserves the education

that is right for them

philosophy

An educated citizenry is a vital requisite for our survival as a free people.

Thomas Jefferson, 1816

flipping
the
school

flipping
the
school

Instead of students revolving around the teacher/school, the school revolves around the learner.


AI

learning =
knowing +
doing +
using when it matters

7-21 times practice

to learn to

use when it matters

interconnected

world

To summarize the numbers (which sometimes get cited differently) learners retain approximately:

90% of what they learn when they teach someone else/use immediately.

75% of what they learn when they practice what they learned.

50% of what they learn when engaged in a group discussion.

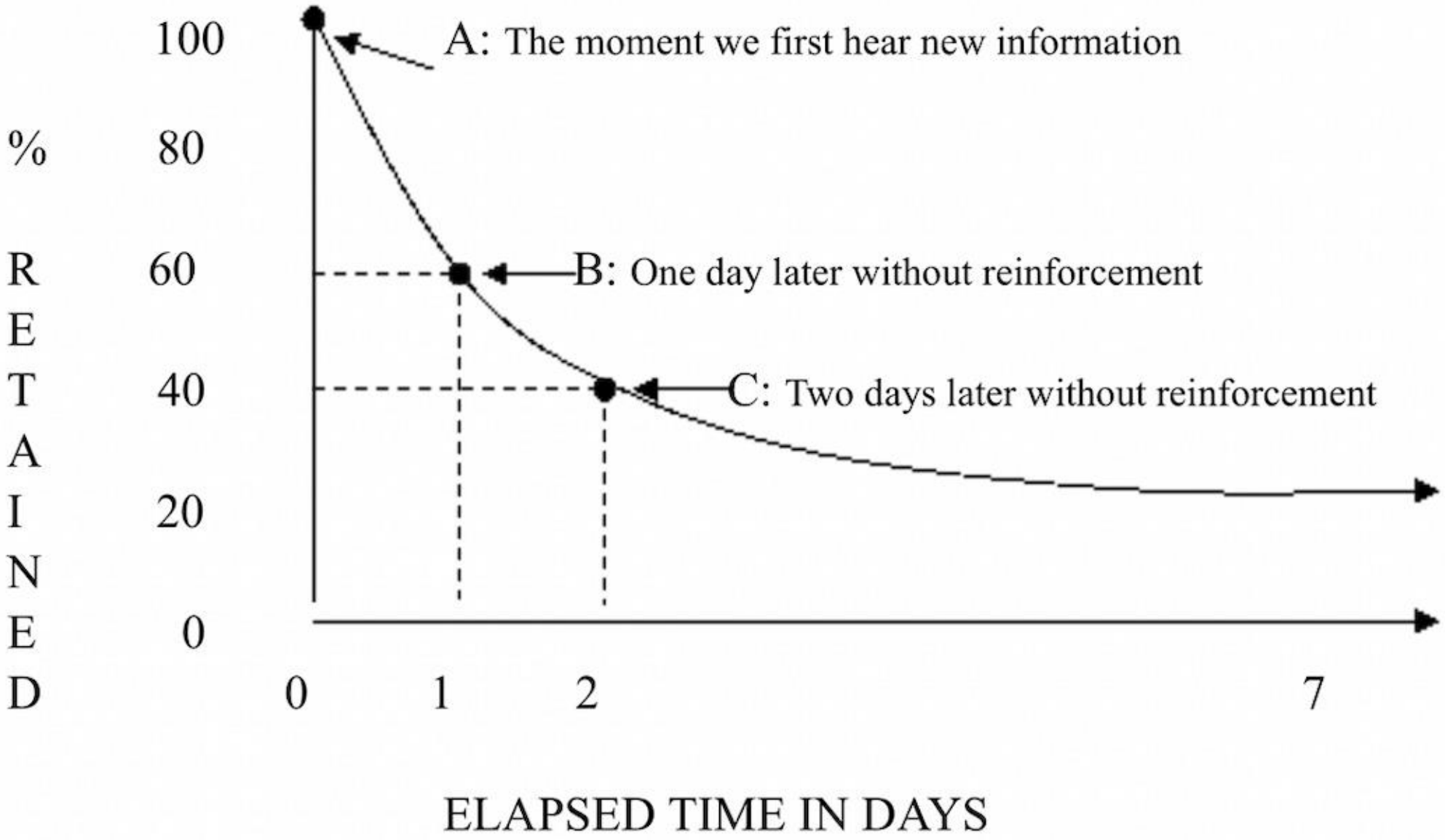
30% of what they learn when they see a demonstration.

20% of what they learn from audio-visual.

10% of what they learn when they've learned from reading.

5% of what they learn when they've learned from lecture.

THE CURVE OF FORGETTING



9 hours a day online

3 hours a day

social media

JAN 2019

TIME SPENT WITH MEDIA

AVERAGE DAILY TIME SPENT CONSUMING AND INTERACTING WITH MEDIA [SURVEY BASED]

AVERAGE DAILY TIME SPENT USING THE INTERNET VIA ANY DEVICE	AVERAGE DAILY TIME SPENT USING SOCIAL MEDIA VIA ANY DEVICE	AVERAGE DAILY TV VIEWING TIME (BROADCAST, STREAMING AND VIDEO ON DEMAND)	AVERAGE DAILY TIME SPENT LISTENING TO STREAMING MUSIC
5H 04M	1H 31M	3H 02M	0H 47M

12

SOURCE: GLOBALWEBINDEX (Q2 & Q3 2018). FIGURES REPRESENT THE FINDINGS OF A BROAD SURVEY OF INTERNET USERS AGED 16-64. TIMES ARE DAILY AVERAGES, REPORTED IN HOURS AND MINUTES. NOTE: SOME ACTIVITIES MAY TAKE PLACE CONCURRENTLY.

Hootsuite we are social

Reading
to Watch (sometimes)

Watching
to read (sometimes)


:00


EV
ECO
PWR


HUD
SET


ANTI ICE
ENG START
CABIN PRESS
EXT LT
INT LT

Connecting a Bluetooth® phone

There are two connecting methods available.

Automatic

When you register your phone, set it to automatic. Always set it to this mode and leave the phone in a place where connection can be established.

When the "POWER" switch is turned to ACCESSORY or ON mode, the system will search for a nearby registered phone. If the system automatically connects to one of the phones connected to in the past, the phone will be displayed.

Manual

When the auto connection has failed to connect or is turned off, you must connect Bluetooth® manually.

STEP 1 Display the "Telephone" screen.

STEP 2

Bluetooth is a registered trademark of

Touch the device to connect.

A message is shown if connection has been successful.

If connection fails, a message will be displayed and connection will be re-attempted.

...necting to the Bluetooth® phone

...ystem cannot connect due to poor signal strength with the "POWER" ... in ACCESSORY or ON mode, the system will automatically attempt ...nnect.

...phone is turned off, the system will not attempt to reconnect. In this ...connection must be made manually, or the phone must be re-selected.

...cting the phone while Bluetooth® audio is playing

...ooth® audio will stop temporarily.

...take time to connect.

YouTube AU

Search

Watching
to read (sometimes)

Teens spend 1200hrs a year on social media

DAILY TIME SPENT ON SOCIAL MEDIA

Average h:mm spent engaging with/connected to social networks/services during a typical day

Evaluation

Make and defend judgments based on internal evidence or external criteria.

appraise argue assess attach choose compare conclude contrast defend describe discriminate estimate evaluate explain judge justify interpret relate predict rate select summarize support value

Synthesis

Compile component ideas into a new whole or propose alternative solutions.

arrange assemble categorize collect combine comply compose construct create design develop devise explain formulate generate plan prepare rearrange reconstruct relate reorganize revise rewrite set up summarize synthesize tell write

Analysis

Break down objects or ideas into simpler parts and find evidence to support generalizations.

analyze appraise breakdown calculate categorize compare contrast criticize diagram differentiate discriminate distinguish examine experiment identify illustrate infer model outline point out question relate select separate subdivide test

Application

Apply knowledge to actual situations.

apply change choose compute demonstrate discover dramatize employ illustrate interpret manipulate modify operate practice predict prepare produce relate schedule show sketch solve use write

Comprehension

Demonstrate an understanding of the facts.

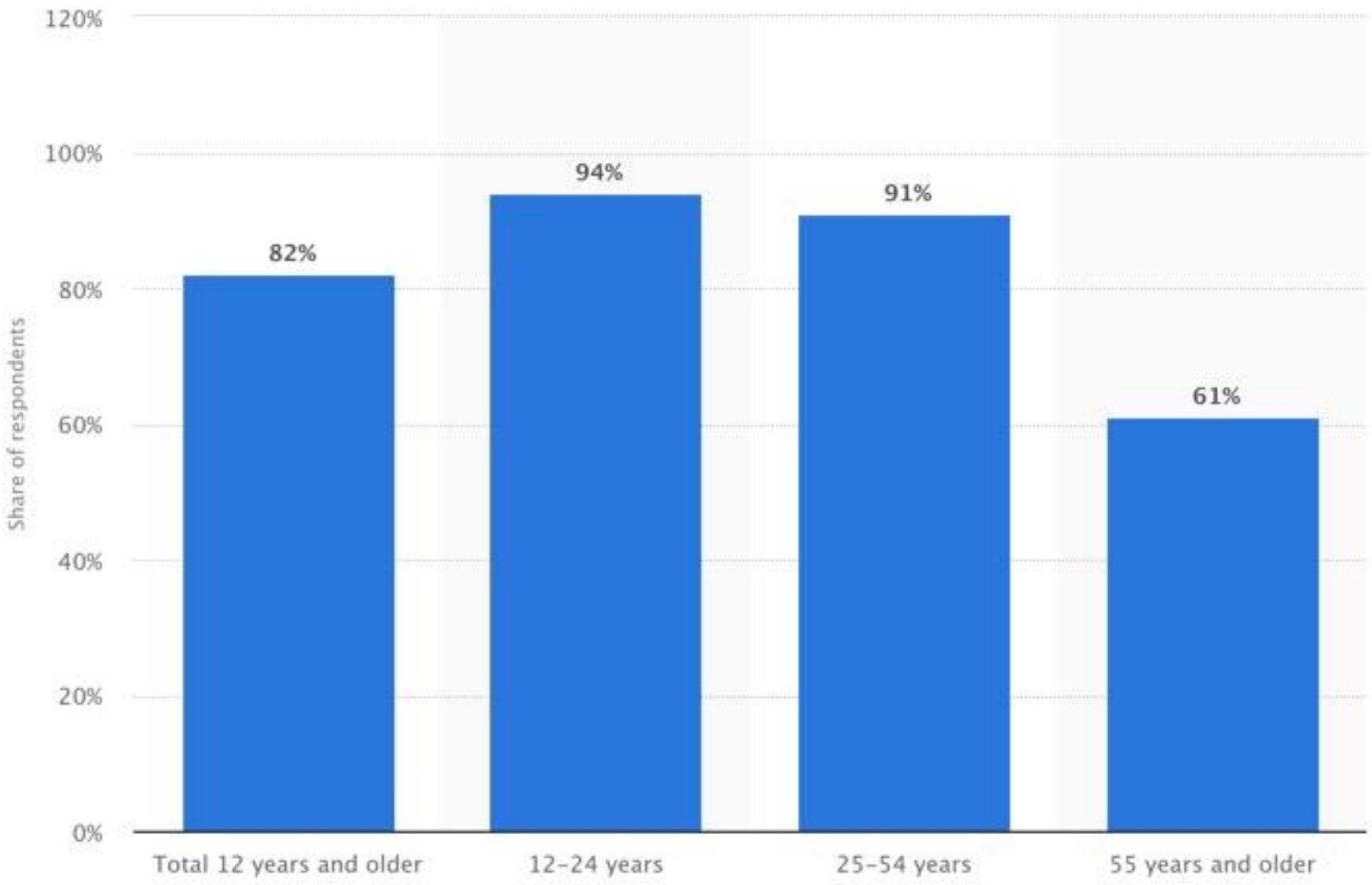
classify convert defend describe discuss distinguish estimate explain express extend generalized give example(s) identify indicate infer locate paraphrase predict recognize rewrite review select summarize translate

Knowledge

Remember previously learned information.

arrange define describe duplicate identify label list match memorize name order outline recognize relate recall repeat reproduce select state

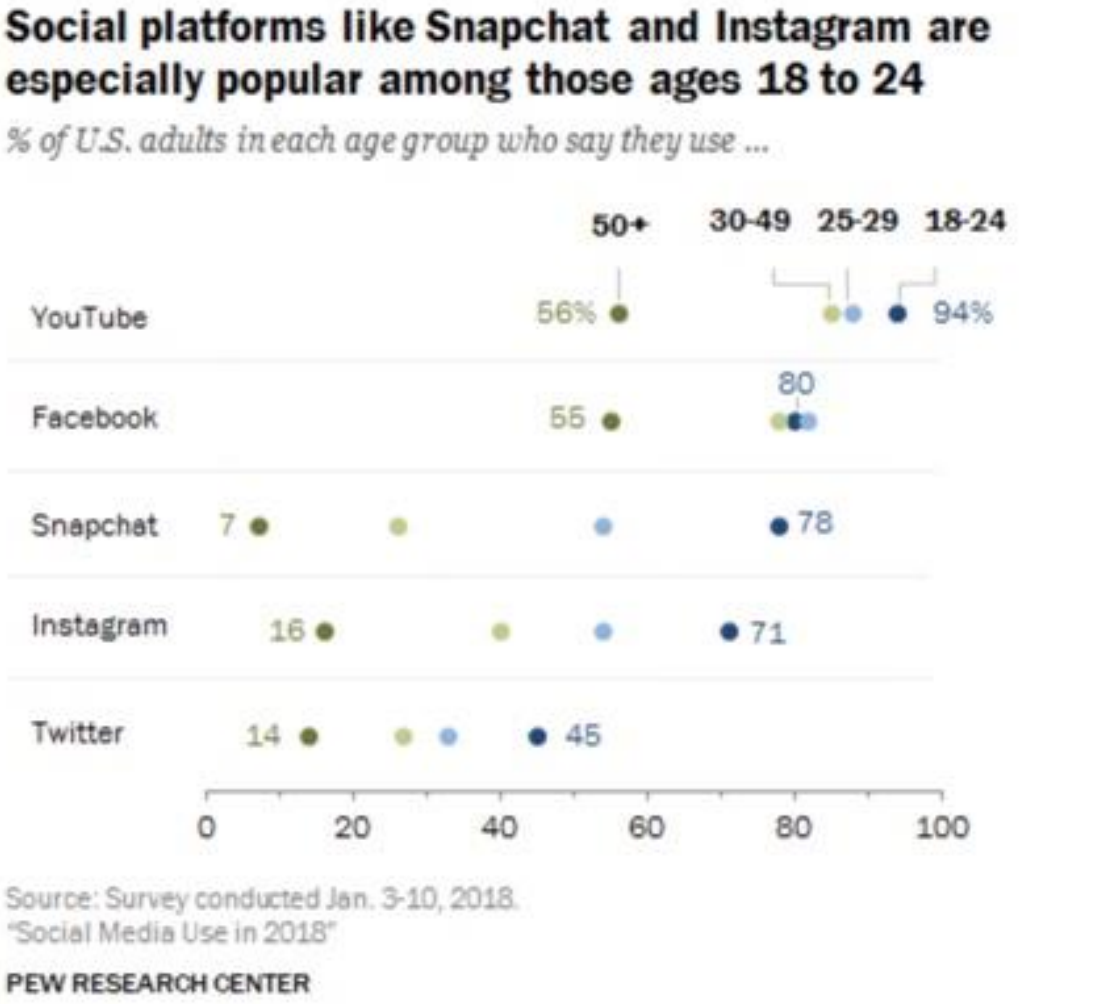
Use of social networking sites in Australia as of March 2018

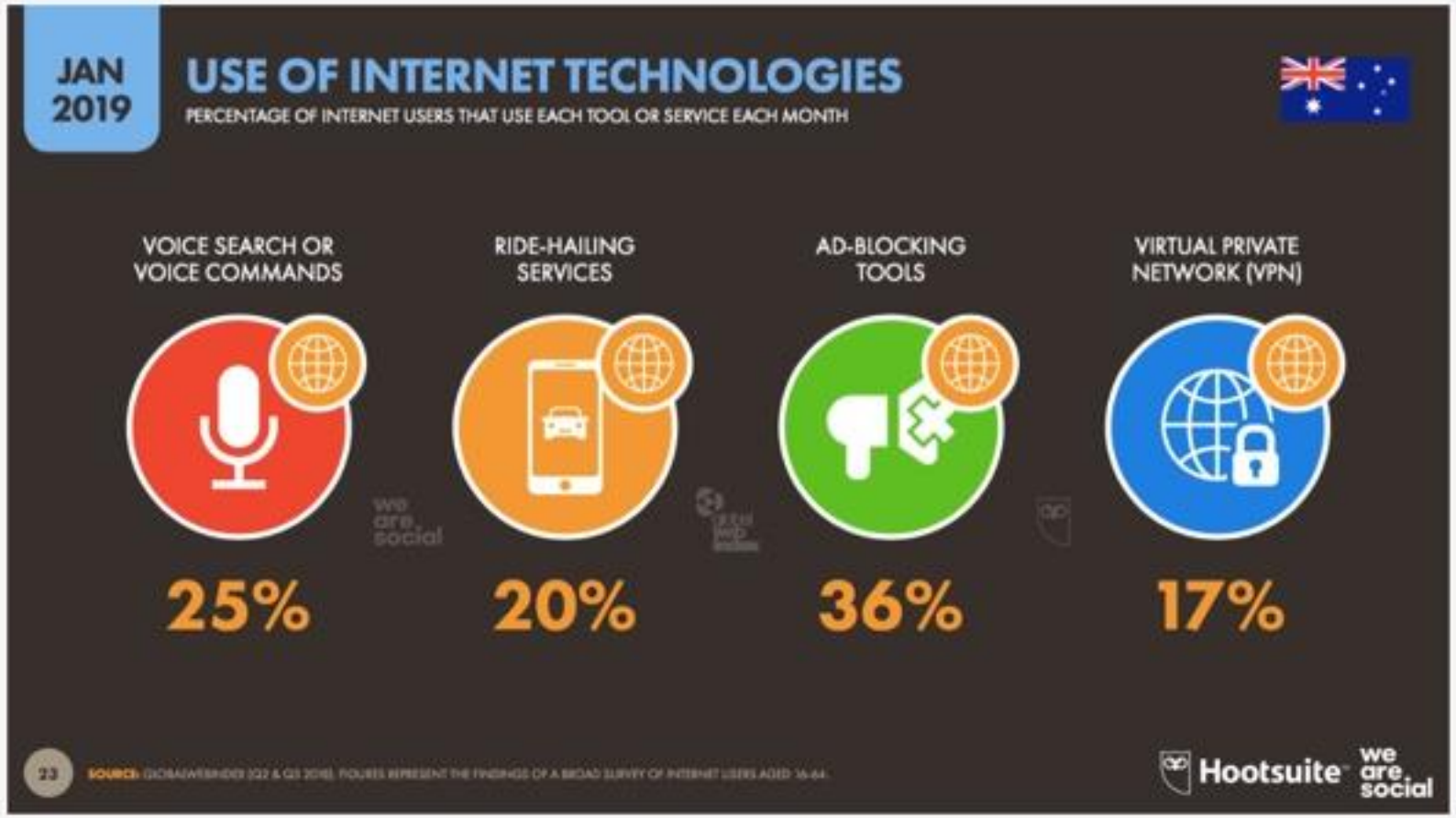


(41% of boys vs. 11% of girls). The top emotion teens associated with not having access to their phones was anxiety (42%), with girls once again reporting more anxiety from phone deprivation than boys (49% to 35%).

The study, which included 743 US teens and 1,058 US parents of teens, was conducted between March 7 and April 10, 2018. In keeping with other findings, girls were more likely than boys to say they spend too much time on social media (47% vs. 35%) while boys were four times as likely to report spending too much time on video games (41% of boys vs. 11% of girls). The top emotion teens associated with not having access to their phones was anxiety (42%), with girls once again reporting more anxiety from phone deprivation than boys (49% to 35%).

Social platforms like Snapchat and Instagram are especially popular among those ages 18 to 24




JAN 2019
USE OF INTERNET TECHNOLOGIES
PERCENTAGE OF INTERNET USERS THAT USE EACH TOOL OR SERVICE EACH MONTH
VOICE SEARCH OR VOICE COMMANDS
25%
RIDE-HAILING SERVICES
20%
AD-BLOCKING TOOLS
36%
VIRTUAL PRIVATE NETWORK (VPN)
17%
23
Hootsuite
we are social

Among teenagers, 29 per cent had been bullied on social media within the past year, while 35 per cent said they had posted content on social media they later regretted.

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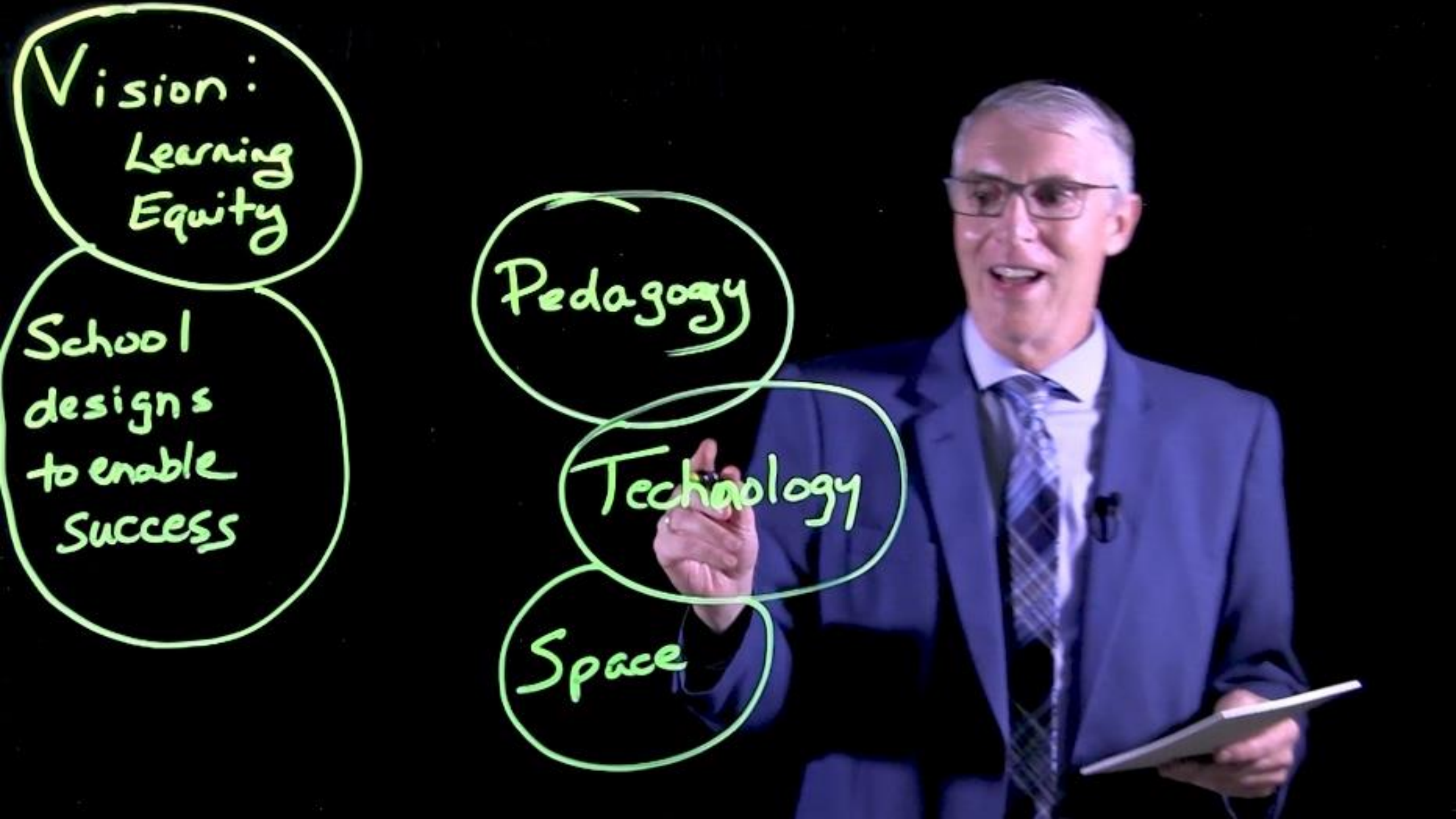
Vision:
Learning
Equity
School
designs
to enable
success


Vision:
Learning
Equity
School
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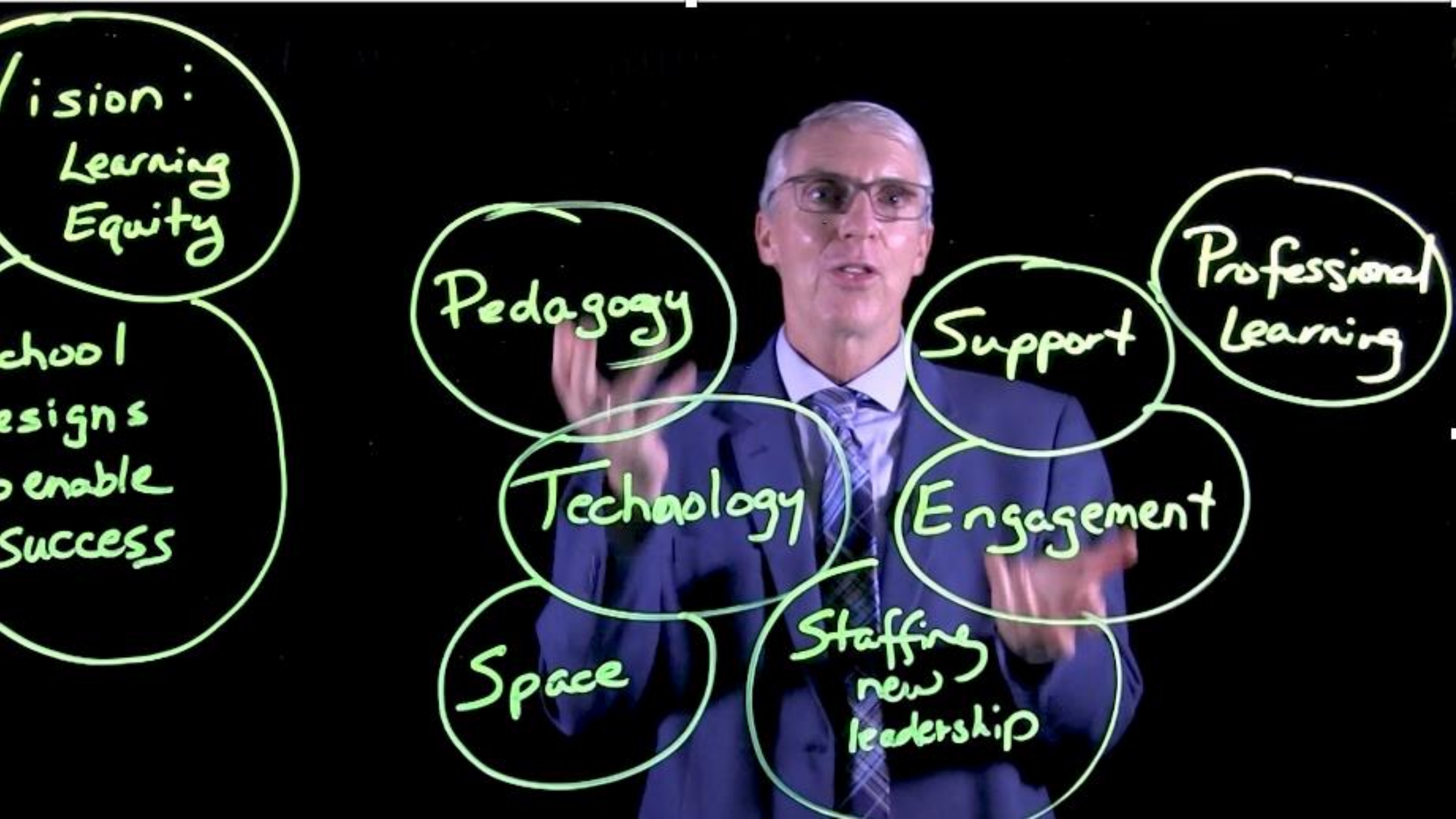
to enable
success
Pedagogy
Technology
Space


ision:
Learning
Equity
chool
esigns
enable
success
Pedagogy
Support
Professional
Learning
Technology
Engagement
Space
Staffing
new
leadership

What is one innovation
that is
on track
in your school?

REVISED

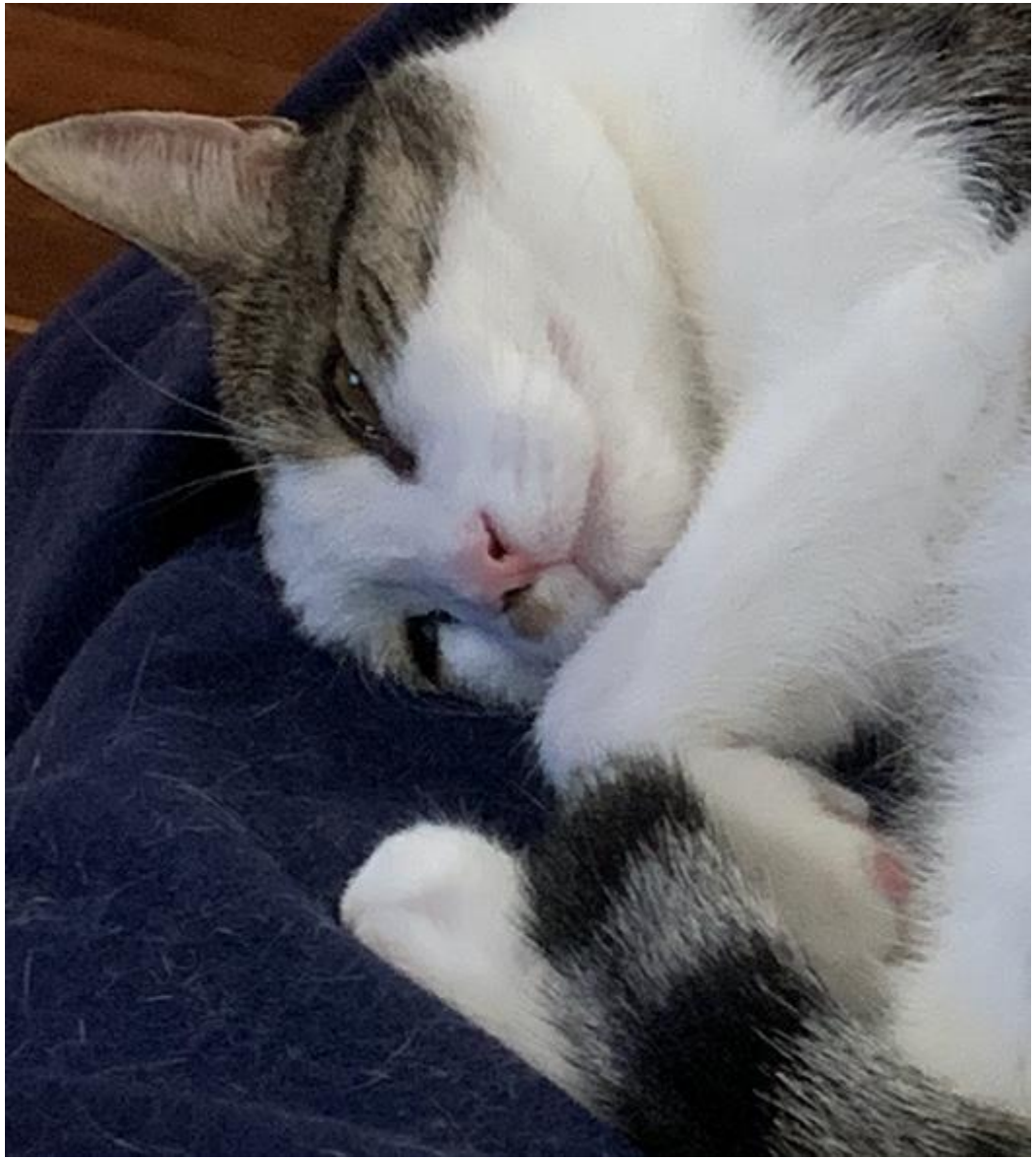
What is one innovation that is NOT on track in your school?

REVISED

What is one next step you can take to move transformation forward?

When Copernicus posited, and Galileo confirmed the Sun as the centre of the solar system and that the Earth revolved around it, many learned people of the time considered this heresy. The notion that the syllabus can be accomplished by adjusting it to the passions and needs of the learners is possibly considered heresy today.

To some, the idea that passion and student wellbeing help drive intellectual curiosity and lead to building cognitive capacity seems impossible at worst or unrealistic at best.



Tue, 26 Mar, 1:01 pm

REMINDER: You are almost out of Breeders Choice Litter 30 Litres. Stock up. Shop now http://m.gxlpet.co/NOTEQNUU. Optout Stop to 0416906814

Alexa


Future
NEXT EXIT

A Different Kind of Teacher for a Different Kind of School

Professor
John Fischetti