

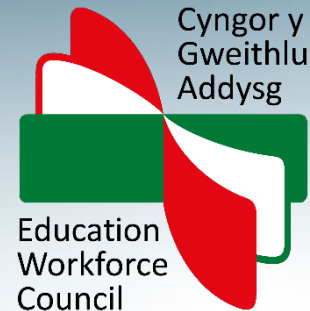
Siarad yn Broffesiynol 2022 gyda'r Athro Yong Zhao

**Myfyrwyr fel Perchnogion Dysgu
a Phartneriaid Newid Addysgol**

Yong Zhao
University of Kansas
University of Melbourne
@YongZhaoEd
<http://zhaolearning.com>

Professionally Speaking 2022 with Professor Yong Zhao

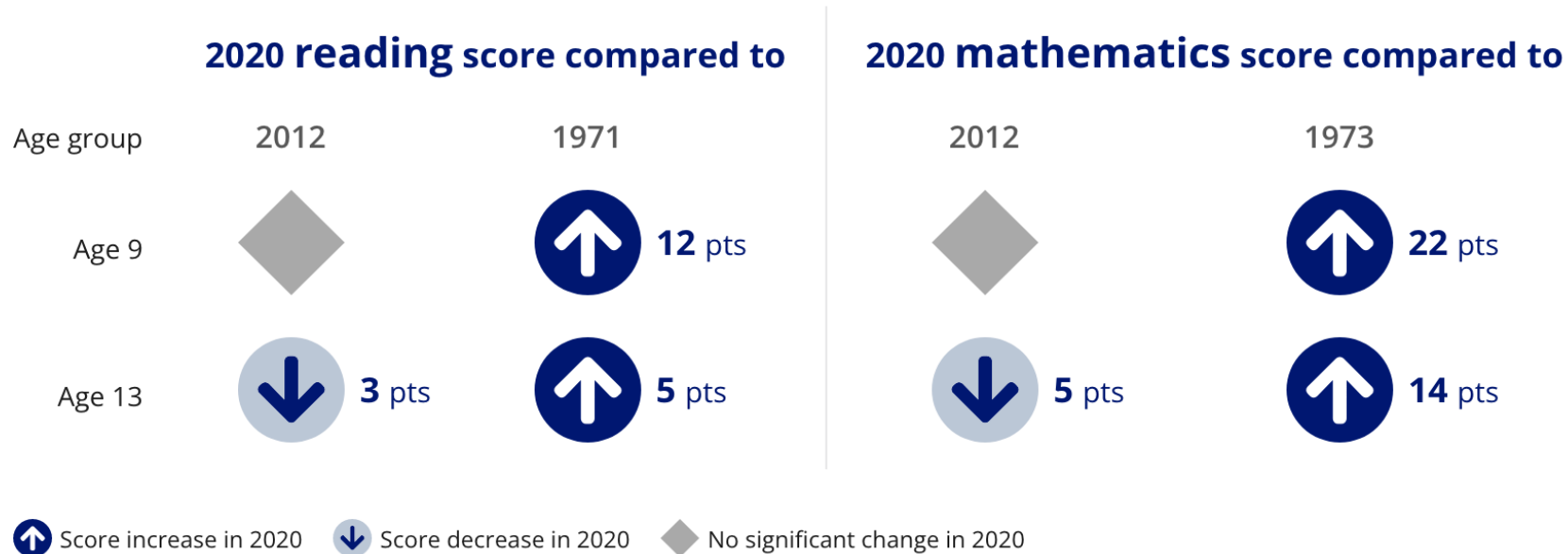
**Students as Owners of
Learning and Partners of
Change in Education**



Dim cynnydd dros y blynyddoedd

No progress over the years

FIGURE | Changes in NAEP long-term trend reading and mathematics average scores by age group



NOTE: Results for 1971 and 1973 are from the [original assessment format](#)®, and results for 2012 and 2020 are from the [revised assessment format](#)®. The 1973 mathematics data were extrapolated. See the [About page](#) for more information.

Beth sydd gennym: Natur Ddynol

Dysgwyr Anianol

Dysgwyr sy'n Amrywiol yn Naturiol

Dysgwyr sy'n Fwriadus yn Naturiol

What do we have: Human Nature

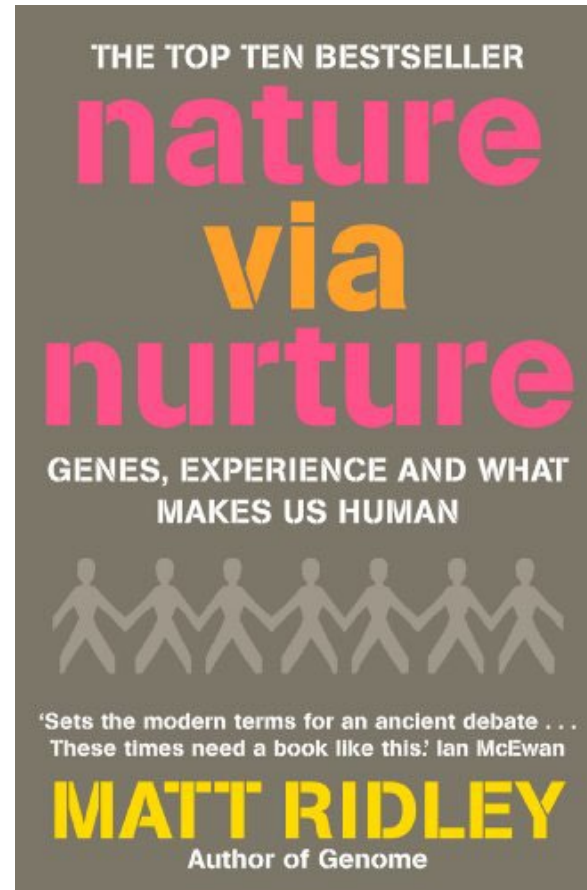
Natural Born Learners

Naturally Diverse Learners

Naturally Intentional Learners

**Beth sydd gennym:
Natur Ddynol**

**What do we have:
Human Nature**

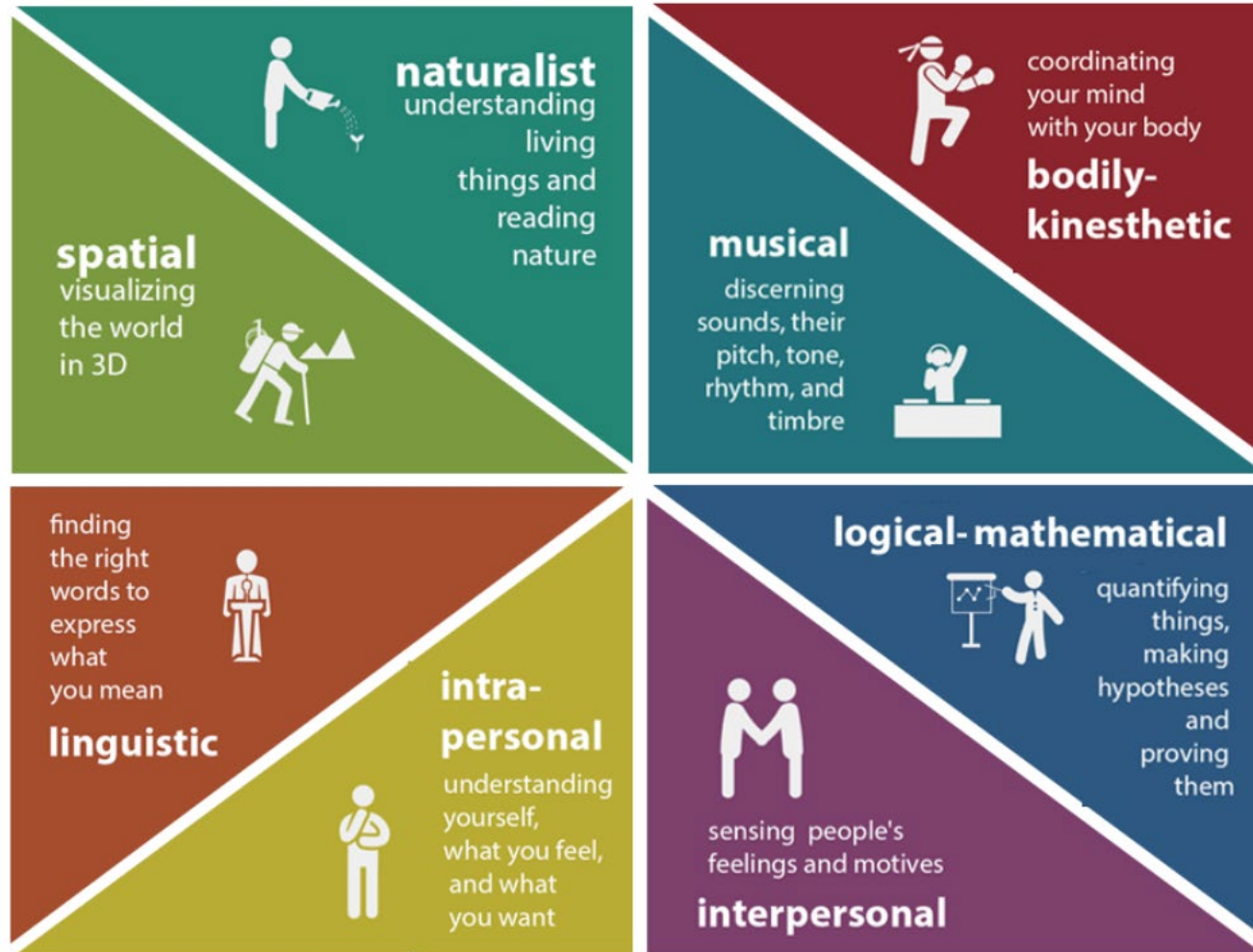


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Beth sydd gennym: Natur Ddynol

What do we have: Human Nature

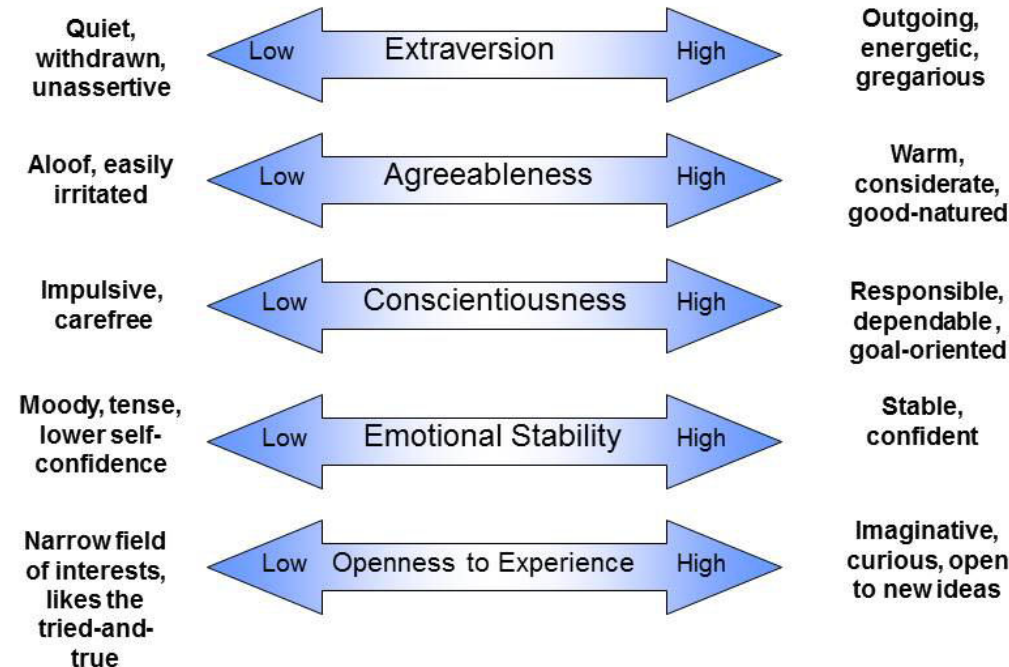


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Beth sydd gennym: Natur Ddynol

What do we have: Human Nature

The Big Five Personality Dimensions



(Tupes & Christal, 1961, as cited by Daft, 2007)

Beth sydd gennym: Natur Ddynol

What do we have: Human Nature

The 16 basic desires

Power Influence others, Create	Independence Self-reliance	Curiosity Understanding	Acceptance Avoid failure/criticism
Order Structure, Orderliness	Saving Collect things	Honor Upright character	Idealism Social justice
Social contact Peer companionship	Family Raise a family	Status Respect based on Social standing	Vengeance Confront those who offend, frustrate & annoy
Romance Beauty & Sex (libido) Art & Music	Eating Food & Appetite	Physical activity Muscle exercise	Tranquility Safety Free of anxiety & pain

Source: Steven Reiss, PhD.

Beth sydd gennym: Natur Ddynol

Profiadau Amrywiol:
Teulu, Cymuned, Ysgolion

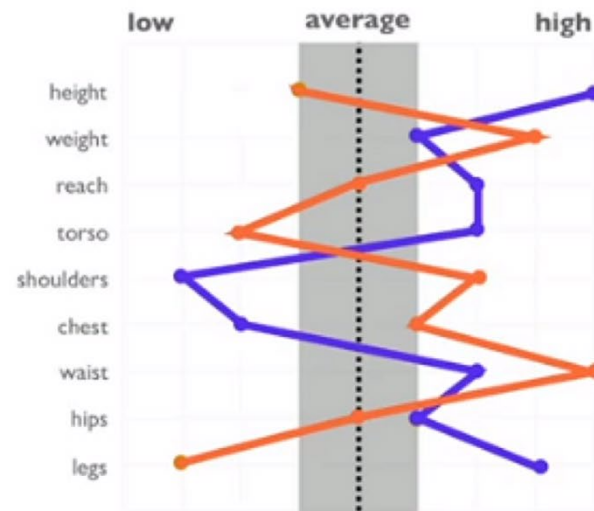
What do we have: Human Nature

Diverse Experiences:
Family, Community, Schools

Beth sydd gennym: Natur Ddynol

What do we have: Human Nature

Jagged Profile: Everyone can be great
(All are above the Average)



Problemau Asesu

- 1960au
 - FIMS: 12^{fed} allan o 12 gwlad
 - FISS: 14^{eg} allan o 18 gwlad
- 1970au/1980au
 - SIMS: 12, 14, 12, 12 allan o 15 (systemau rhif, algebra, geometreg, calcwlws)
 - SISS: 14^{eg} (bioleg), 12^{fed} (cemeg), 10^{fed} (ffiseg) allan o 14
- 1990au—2007: TIMSS (blwyddyn 9)
 - 28^{ain} allan o 42 ym 1995
 - 15^{fed} yn 2003
 - 9^{fed} yn 2007

Assessment Problems

- 1960s
 - FIMS: 12th out of 12 countries
 - FISS: 14th out of 18 countries
- 1970s/1980s
 - SIMS: 12, 14, 12, 12 out 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

Problemau Aseu

Assessment Problems

Pam mae UDA yma o hyd?

Why Is the U.S. Still Here?

Problemau Aesu

Assessment Problems

Sgorau
Profion

Test
Scores

Gwledydd Asia

Asian
Countries

UDA

USA

Canlyniadau TIMSS 2003 Results

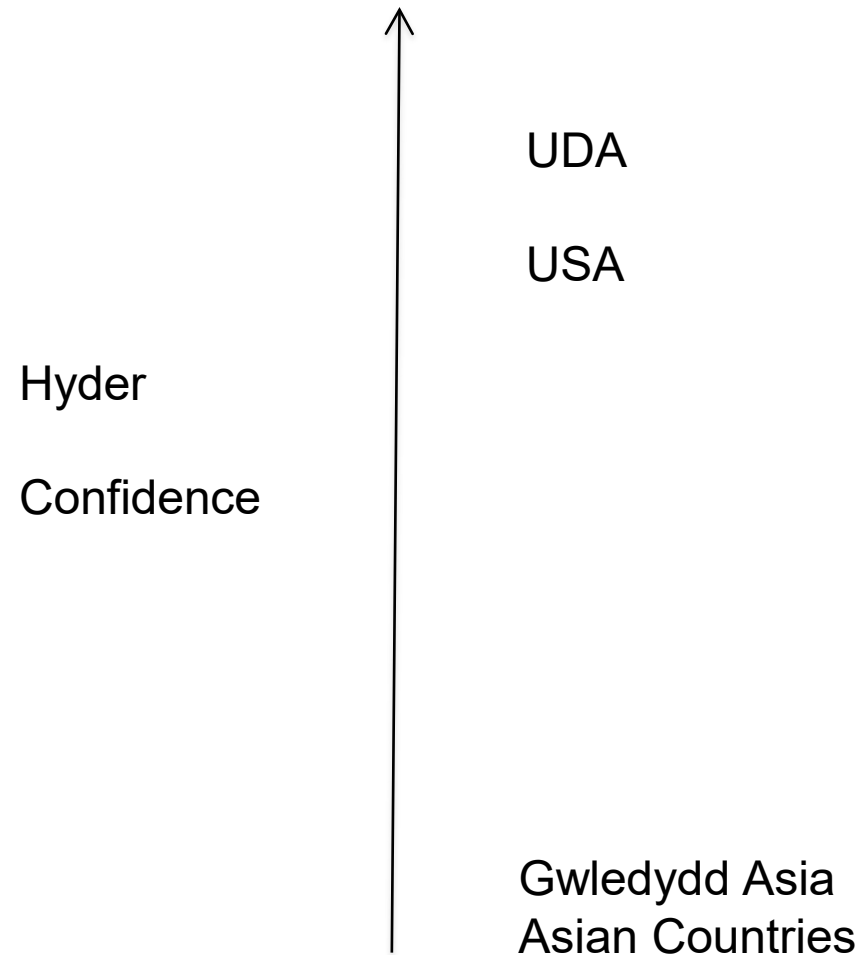
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Swansea
University
Prifysgol
Abertawe

Problemau Asesu

Assessment Problems



Canlyniadau TIMSS 2003 Results

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"It may be wrong, but it's how I feel."

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Problemau Aseu

Assessment Problems

Cyberthnasau rhwng Sgor
Mathemateg TIMSS a Hyder a
Mwynhad

Correlations between TIMSS
Math Score and Confidence
and Enjoyment

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

Problemau Aseu

Sgorau Mathemateg TIMSS 2011 o gymharu â Hyder Gwledydd Dethol

Gwlad	Sgor mathemateg	Hyder (%)	Gwerth mathemateg %
Corea	613	03 (11)	14
Singapore	611	14 (21)	43
Tsieina Taipei	609	07 (20)	13
Hong Kong	586	07 (24)	26
Japan	570	02 (09)	13
Unol Daleithiau America	509	24 (40)	51
Lloegr	507	16 (33)	48
Awstralia	505	17 (38)	46

Assessment Problems

TIMSS 2011 Math Scores vs. Confidence of Select Countries

Country	Math Score	Confidence (%)	Value Math (%)
Korea	613	03 (11)	14
Singapore	611	14 (21)	43
Chinese Taipei	609	07 (20)	13
Hong Kong	586	07 (24)	26
Japan	570	02 (09)	13
United States	509	24 (40)	51
England	507	16 (33)	48
Australia	505	17 (38)	46

Problemau Asesu

Cydberthnasau rhwng Dangosyddion PISA ac Entrepreneuriaeth

	Darlleniad PISA	PISA Math	PISA Gwyddoniaeth
Galluedd Canfyddedig	-.595**	-.586**	-.608**
Cyfradd Entre'th Eginol	-.693**	-.636**	-.678**
Cyfradd Perch'th Busnes Newydd	-.371*	-.374*	-.392*
Cyfanswm Gweithgarwch Entre'th Cyfnod Cynnar	-.658**	-.620**	-.658**

Assessment Problems

Correlations between PISA and Entrepreneurship Indicators

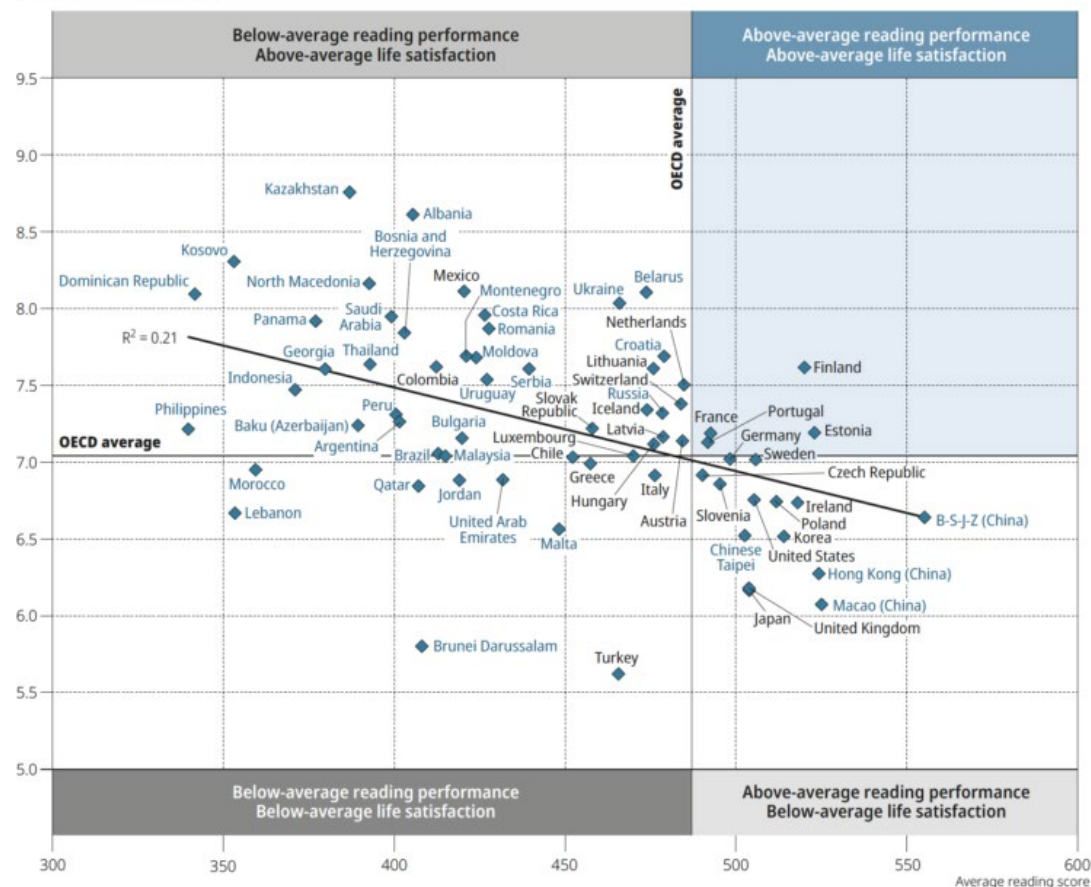
	PISA Reading	PISA Math	PISA Sciences
Perceived Capabilities	-.595**	-.586**	-.608**
Nascent Entre Rate	-.693**	-.636**	-.678**
New Biz Ownsp Rate	-.371*	-.374*	-.392*
Total Early Stage Entre Activity	-.658**	-.620**	-.658**

Problemau Aseu

Assessment Problems

Figure III.11.5 Life satisfaction and reading performance across education systems

Average life satisfaction
(on 10-point life-satisfaction scale)



Problemau Asesu

Nifer o ddeilliannau

- Deilliannau byrdymor o gymharu â rhai hirdymor
- Deilliannau cyfarwyddiadol o gymharu â rhai addysgiadol
- Gwybyddol o gymharu ag anwybyddol
- Cyd-destunau a deilliannau

Assessment Problems

Multiple outcomes

- Short-term vs. long-term outcomes
- Instructional vs. educational outcomes
- Cognitive vs. non-cognitive
- Contexts and outcomes

COVID ac Addysg

Arbrawf byd-eang

Dysgu heb fod gyda'n gilydd

Pob athro'n arbrofi gyda dysgu o bell

Arferion/polisïau traddodiadol wedi'u rhewi neu eu newid

Colegau wedi newid meini prawf derbyn

COVID and Education

A universal experiment

Learning without being together

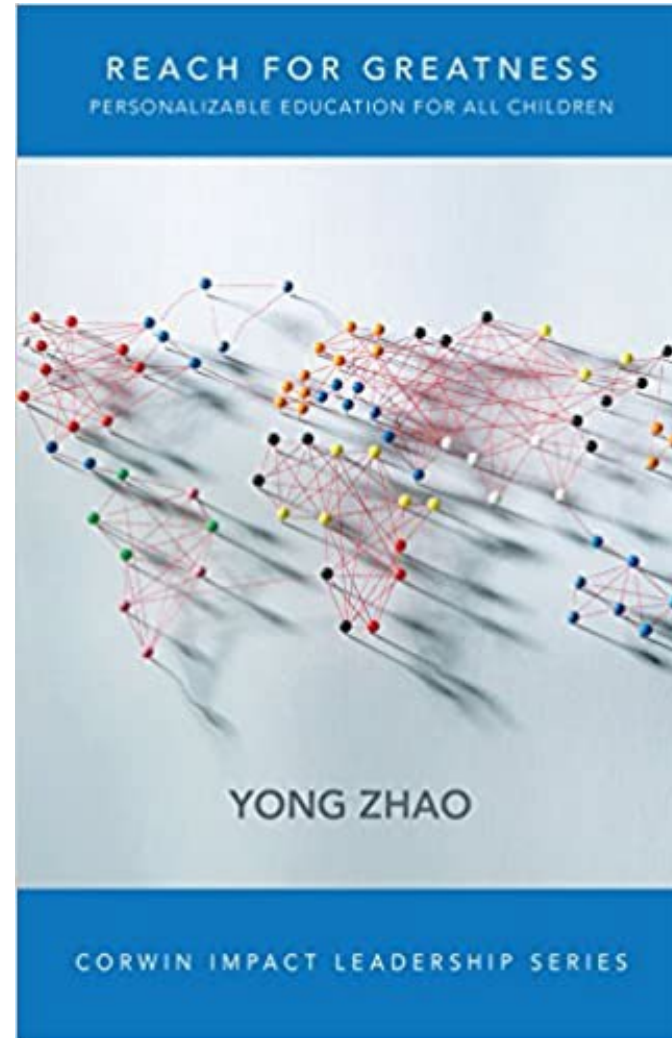
All teachers experimented with remote learning

Traditional practices/policies suspended or altered

Colleges changed admissions criteria

Dyfodol Addysg

Future of Education

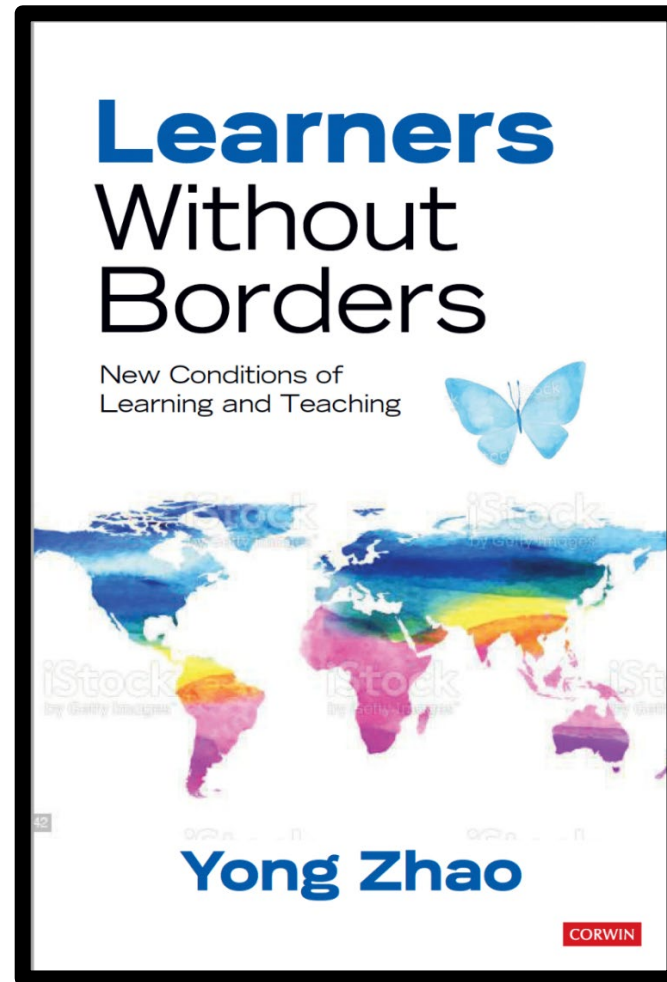


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Dyfodol Addysg

Future of Education

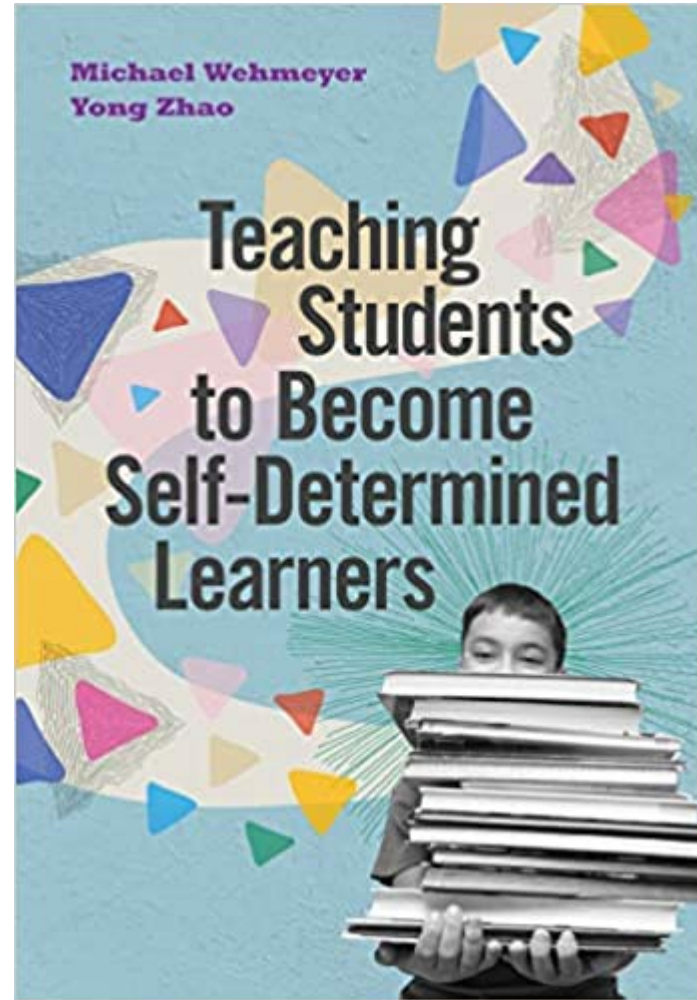


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Dyfodol Addysg

Future of Education



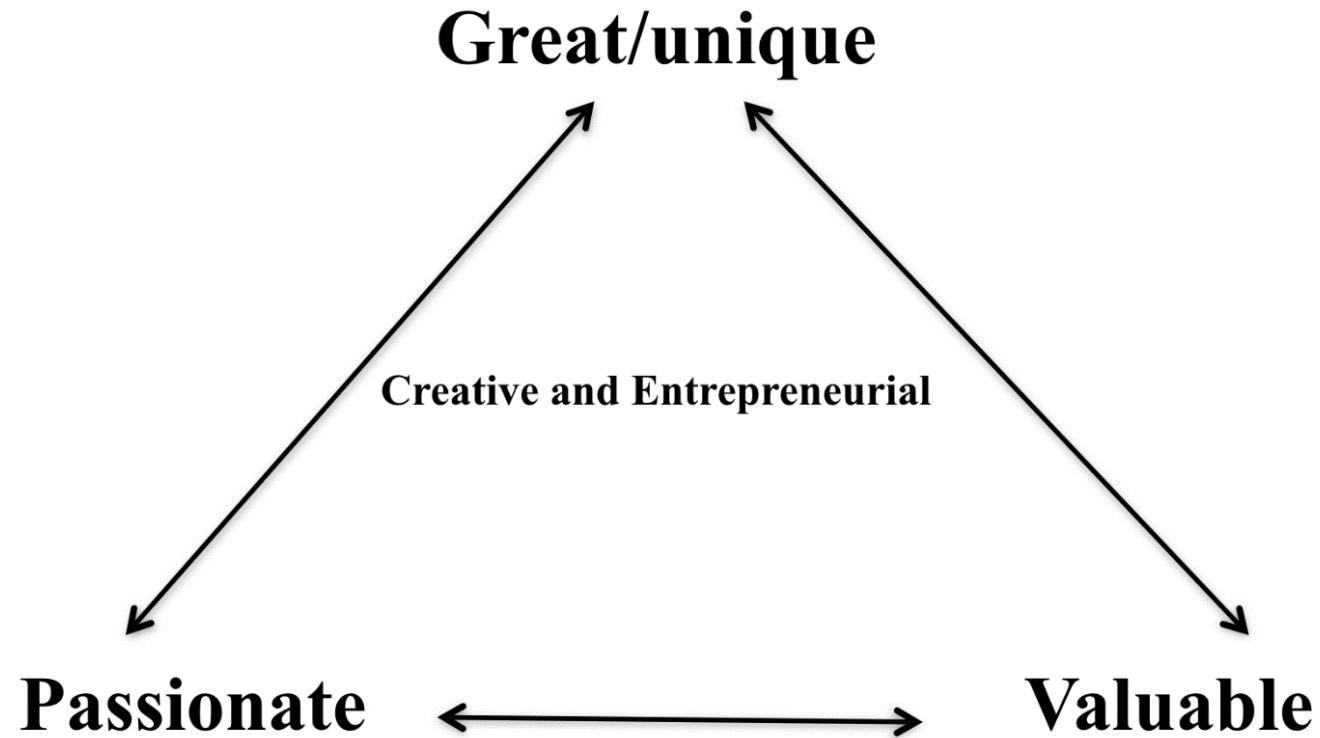
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Abertawe

Dyfodol Addysg

Future of Education



Dyfodol Addysg

Personoli

Ffocws ar y cynnyrch

Cysylltiadau byd-eang

Future of Education

Personalization

Product oriented

Globally connected

C&A

Q&A

