The small world paradox

As our collective world gets smaller, the worlds we individually engage become more numerous and complex.
Future Wise
Educating our Children for a Changing Global World
FUTURE WISE
EDUCATING OUR CHILDREN FOR A CHANGING WORLD
DAVID N. PERKINS
JOSSEY-BASS
Learning that Matters
Learning that Matters
"Mattermatics"

+ 1
x 2
÷ 3
The Expanding Universe...

Learning that Matters in the Lives Learners Live
The French Revolution

Through the French Revolution, I was able to understand the generalities of world conflict (for instance, how the lack of freedom, poverty, over-taxation, weak economies, the struggle between the Church and state, or social inequity has always been a reason to engage in war).
Narrative

(1) narratives are helpful in thinking about our world.

(2) nuances will inevitably emerge which may challenge our narratives.

(3) if we do decide to believe in a narrative, we had better be ready, willing and able to defend it.

(4) while narratives have an unmistakable allure, it is crucial to NEVER overlook evidence that will support a contrary position just because it is easier to maintain an original one.
The Expanding Universe...

Six ‘Beyonds’ Signaling New Visions of Education Today
Beyond Local
Global perspectives, problems, studies

Beyond Content
21st century skills, competences, etc.

Beyond academic engagement
Personal choice, significance, commitment, and passion

Beyond discrete disciplines
Interdisciplinary topics and problems

Beyond the Traditional Disciplines
Renewed and extended visions of the disciplines

Beyond Topics
Content as tools for thinking and action

Beyond Local
Global perspectives, problems, studies

Beyond Content
21st century skills, competences, etc.

Beyond academic engagement
Personal choice, significance, commitment, and passion

Beyond discrete disciplines
Interdisciplinary topics and problems

Beyond the Traditional Disciplines
Renewed and extended visions of the disciplines

Beyond Topics
Content as tools for thinking and action
1. Communication in the mother tongue
2. Communication in foreign languages
3. Mathematical competence and basic competences in science and technology
4. Digital competence
5. Learning to learn
6. Social and civic competences
7. Sense of initiative and entrepreneurship
8. Cultural awareness and expression
Beyond Topics
Content as tools for thinking and action

Beyond the Traditional Disciplines
Renewed and extended visions of the disciplines

Beyond discrete disciplines
Interdisciplinary topics and problems

Beyond academic engagement
Personal choice, significance, commitment, and passion

Beyond Local
Global perspectives, problems, studies

Beyond Content
21st century skills, competences, etc.
+ 1
× 2
÷ 3
The Expanding Universe...

Big Understandings and Big Questions for Learning that Matters
Insight

Action

Ethics

Opportunity

World trade in fresh potatoes, flows over $0.1 m USD average 2005-2009
World trade in fresh potatoes, flows over 0.1 m US$ average 2005-2009


"Mattermatics"

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The Gravity of Tradition...

How Niche Understandings Limit Learning that Matters
Insight

Action

Ethics

Opportunity
Understanding OF

Understanding WITH
“Mattermatics”

$\div 3$
The Gravity of Tradition...

Where we might.

Need to Let Go
expertise

information

achievement
achievement
information
expertise
The ACHIEVEMENT gap
The RELEVANCE gap
The Magna Carta

1066
AaBbCcDd...

1492

The French Revolution

3 x 7 = 21

206 bones in the adult human body

To be or not to be...

E = MC²
Expertise

Expert amateurism
expertise

information

achievement
+ 1
x 2
÷ 3
The Expanding Universe...

Reimagining Education for Learning that Matters
As our collective world gets smaller, the worlds we individually engage become more numerous and complex.