CHANGING WORLD, CHANGING STUDENTS

Zachary Walker, PhD

W: www.drzacharywalker.com
T: @lastbackpack
Go to www.menti.com and use the code 88 37 85

What is your role?

- Teacher: 0
- School Leader: 0
- Parent: 0
- Policymaker: 0
- Other: 0
MENTIMETER

Go to www.menti.com and use the code 38 51 18

What is the biggest strength of Iceland's schools?
Go to www.menti.com and use the code 28 55 3

What is one thing you would change about Icelandic schools?
ICELAND
A SNAPSHOT OF THE COUNTRY’S KEY DIGITAL STATISTICAL INDICATORS

- **Total Population**: 333,000 Thousand
- **Urbanisation**: 94%
- **Total Internet Users**: 327,000 Thousand
- **Internet Penetration**: 98%
- **Active Social Media Users**: 260,000 Thousand
- **Social Media Penetration vs. Population**: 78%
- **Mobile Subscriptions**: 428,300 Thousand
- **Active Mobile Social Users**: 230,000 Thousand
- **Mobile Social Media Penetration**: 69%

Dr. Zachary Walker, 2017
JAN 2017

SHARE OF WEB TRAFFIC BY DEVICE

Based on each device's share of all web pages served to web browsers

- **LAPTOPS & DESKTOPS**: 69%
  - Year-on-Year Change: -9%

- **MOBILE PHONES**: 23%
  - Year-on-Year Change: +44%

- **TABLET DEVICES**: 8%
  - Year-on-Year Change: +2%

- **OTHER DEVICES**: 0.16%
  - Year-on-Year Change: +60%

Dr. Zachary Walker, 2017
By the age of 3-5, children are able to:
- play a computer game (66 percent)
- navigate a smartphone (47 percent)
- tie their shoes (14 percent)
- swim unaided (23 percent)
IS ALL THIS GOOD OR BAD?

The answer is…
neither.

It is just reality.
We cannot argue with a train that has left the station.
EDUCATION
# 12 Rules of Learning

<table>
<thead>
<tr>
<th>Brain</th>
<th>Pedagogy and Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement/Exercise</td>
<td>Connections</td>
</tr>
<tr>
<td>Social</td>
<td>Relevance</td>
</tr>
<tr>
<td>Music</td>
<td>Rigor</td>
</tr>
<tr>
<td>Laughter</td>
<td>Relationships</td>
</tr>
<tr>
<td>Novelty</td>
<td>Sleep Matters (a lot)</td>
</tr>
<tr>
<td>Multimodal</td>
<td>Diet Matters (a lot)</td>
</tr>
</tbody>
</table>

Pedagogy drives Technology
We should not limit our students to our own knowledge.
KARIM
“For people without disabilities, technology makes things easier. For people with disabilities, technology makes things possible.”

-IBM Training Manual, 1991
NEW CYCLE IN EDUCATION

Consumption

Evaluation
EVALUATION

Are your students susceptible to “alternative facts” or “fake news”?

Are you?

Dr. Zachary Walker, 2017
WHY FACTS DON’T CHANGE OUR MINDS

New discoveries about the human mind show the limitations of reason.

By Elizabeth Kolbert
<table>
<thead>
<tr>
<th>Myth*</th>
<th>Percentage of teachers who “agree” (rather than “disagree” or “don’t know”)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>United Kingdom (n = 137)</td>
</tr>
<tr>
<td>We mostly only use 10% of our brain</td>
<td>48</td>
</tr>
<tr>
<td>Individuals learn better when they receive information in their preferred learning style (for example, visual, auditory or kinaesthetic)</td>
<td>93</td>
</tr>
<tr>
<td>Short bouts of co-ordination exercises can improve integration of left and right hemispheric brain function</td>
<td>88</td>
</tr>
<tr>
<td>Differences in hemispheric dominance (left brain or right brain) can help to explain individual differences amongst learners</td>
<td>91</td>
</tr>
<tr>
<td>Children are less attentive after sugary drinks and snacks</td>
<td>57</td>
</tr>
<tr>
<td>Drinking less than 6 to 8 glasses of water a day can cause the brain to shrink</td>
<td>29</td>
</tr>
<tr>
<td>Learning problems associated with developmental differences in brain function cannot be remediated by education</td>
<td>16</td>
</tr>
</tbody>
</table>
I taught my 5th-graders how to spot fake news. Now they won’t stop fact-checking me.

It’s more important than ever to teach kids how to read news critically.

Updated by Scott Bedley | Mar 29, 2017, 11:30am EDT

1) When is the Copyright?

2) Have you verified the facts with multiple sources?

3) What is the credibility of the source?

4) When was it published?

5) What is the author's expertise and background with the subject?

6) Does it match your prior knowledge?

7) Does it seem realistic?
These high school journalists investigated a new principal’s credentials. Days later, she resigned.
The purpose of this site is to compile a comprehensive database of the false reports of "hate crimes" committed in the USA. It builds on the work of Laird Wilcox, whose *Crying Wolf* (PDF) is the only book dedicated to this subject so far.

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### New report

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>URL</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>294</td>
<td>Haley Ross falsely reported that a white man scratched her face because she wore a &quot;solidarity pin&quot;... 2016-11-16 Ann Arbor MI</td>
<td><a href="http://amp.mlive.com/v1/articles/201703103/ann_arbor...">http://amp.mlive.com/v1/articles/201703103/ann_arbor...</a></td>
<td>Ann Arbor woman pleads guilty to making up hate crime / Haley Bass pleaded guilty to falsely reporting that a white man scratched her face because she was wearing a &quot;solidarity pin.&quot; In reality, she inflicted the wound in a university literature class. / 2017-03-07</td>
</tr>
<tr>
<td>293</td>
<td>CNN &amp; SPLC blames whites for bomb threats made by black leftist 2017-02-22 St Louis Missouri</td>
<td><a href="http://dailycaller.com/2017/03/03/anti-trump-commun...">http://dailycaller.com/2017/03/03/anti-trump-commun...</a></td>
<td>Anti-Trump Communist Arrested For Jewish Community Center Bomb Threats / Juan Thompson, 31, was arrested in St. Louis by the FBI for making at least eight bomb threats and the cyberstalking of an ex-girlfriend. / 2017-03-03</td>
</tr>
<tr>
<td>292</td>
<td>Vandals not responsible for tipped graves at Jewish cemetery 2017-03-05 Brooklyn New York</td>
<td><a href="http://www.nydailynews.com/new-york/brooklyn/vandal...">http://www.nydailynews.com/new-york/brooklyn/vandal...</a></td>
<td>Vandal not responsible for dozens of tipped graves at Jewish cemetery in Brooklyn, management says / Police and the general manager of a Jewish cemetery in Brooklyn said that 42 fallen headstones were not caused by vandals, saying Sunday that the memorials had naturally tipped over due to age / 2017-03-05</td>
</tr>
</tbody>
</table>

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Dr. Zachary Walker, 2017
Homophobic language isn’t always meant to be hurtful, but how often do we use it without thinking?

Dr. Zachary Walker, 2017
NEW CYCLE IN EDUCATION

Consumption

Evaluation

Production
Hattie (2009) “It is what teachers get students to do in the class that emerged as the strongest component of the accomplished teacher’s repertoire, rather than what the teacher, specifically does” (p. 22).

In effect, what teachers do and understand matters, but what students do matters even more.
<table>
<thead>
<tr>
<th>Criteria</th>
<th>Not Passed Yet</th>
<th>D</th>
<th>C</th>
<th>B</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Understanding of Objective</td>
<td>Limited Understanding of Objective</td>
<td>Partial Understanding of Objective</td>
<td>Thorough Understanding of Objective</td>
<td><strong>Take a Chance and WOW Me.</strong></td>
<td></td>
</tr>
</tbody>
</table>
“Instead of asking kids what they want to be when they grow up, we should ask them what problems they want to solve. This changes the conversation from who do I want to work for to what do I need to learn to be able to do that.”

-Jamie Casap
NEW CYCLE IN EDUCATION

Consumption
Evaluation
Production
Sharing
Social Media: Enemy of the State or Power to the People?

Pierre Omidyar is the founder and chairman of eBay; and publisher and CEO of First Look Media.

At a recent series of events in Beijing hosted by the Berggruen Institute, I was asked to speak about social media and the potential harm and good associated with it.

My view is pretty straightforward -- I believe that social media is a tool of liberation and empowerment. That may seem fairly audacious when a good portion of the
10 million!

Wow, 10 million hits! That's brilliant because that's 10 million thinking about kids and food. I am still working away quietly trying to raise money for Mary's Meals. Together we've raised £131,066.79 so far and I know the total is going to jump because last week I got told that Lidl are donating £7,500 as part of the Young Fundraiser award and there's a big jump from my book! Keep an eye on the total to see how much it jumps!

I have been asked to talk at lots of conferences. I find it hard. I always ask my dad to help. Last year I went to Copenhagen to talk at the MAD food conference. It was an amazing experience. It is organised by Renae from Noma and his friends. I learnt loads from the other speakers. Roy Choi spoke about feeding communities in America and I ate food cooked by ladies from a souk in Lebanon cooked by ladies with different religions. When it was my turn to speak every one cheered and my nerves got me.
We must acknowledge reality,

We cannot limit what students *consume* to what we know.

We must teach them to *evaluate* what they consume.

Students must *produce*. We must create conditions where that is okay.

We must teach students *appropriate and responsible ways to share* information.
RESOURCES- STRATEGIES

Book Link: bit.ly/LBPCorwin
Discount Code: N162C3
Every teacher has the right to live in a cave. However, they do not have the right to drag their students in with them.

- Tom Whitby
QUESTIONS AND DISCUSSION

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