

2020 Rutgers University

bit.ly/2020RUonline

@mcleod @RutgersTLT #RUOnlineCon #onlinelearning

- [My bio, CV, etc.](#)
- [Please stay in touch!](#) (dangerouslyirrelevant.org, [@mcleod](#))

KEYNOTE: Can online learning also be DEEPER learning?

- [Scott's slides PDF](#) ([contact Scott](#) for the original Keynote file)
 - [PowerPoint version](#)
- [21st century competencies](#)
- [4 big shifts made by deeper learning schools](#)
- [10 building blocks for schools of the future](#)
- 4 Shifts Protocol (bit.ly/4shifts)
- [Scott's TEDxDesMoines talk](#) [VIDEO]



Scott McLeod @mcleod · Sep 18, 2014

You want student learning to change but you don't want to change teaching or schooling. Good luck with that.

41  828  1K    

<https://twitter.com/mcleod/status/512720217684705281>

New learning possibilities

Are we taking advantage of deeper learning opportunities for students?

- [A pernicious myth: Basics before deeper learning](#)
- [New, strong evidence for problem-based learning](#)
- [Model schools and innovation networks](#)
 - [2017 New Tech Network Impact Report](#)
 - [Big Picture Learning - Outcomes](#)
- [Deeper learning, Hewlett Foundation](#)
 - [Research: Does deeper learning improve student outcomes?](#)
 - [Decoding deeper learning in the classroom](#)
- [PBL \(and SEL\) in Philadelphia](#)

College and career readiness

What does it mean to prepare our graduates for college, work, and life success?

- [The future of work](#) [VIDEO; 2:52]
- [Humans need not apply](#) [VIDEO; 15:00; **this will REALLY freak you out!**]
- [The declining economic value of routine cognitive work](#) (slide)
- [The shape of employment growth](#) (Europe is on page 142) (screenshot)
- [Organizational productivity v. worker benefits](#)
- [The 10 skills employers most want in 2019 graduates](#)
- [The workforce in the cloud](#)
- [British kids log on and learn math - in Punjab](#)
- [How to restore the American dream](#)
- [Future hiring will mainly benefit the high-skilled](#)
- [As robots grow smarter, American workers struggle to keep up](#)
- [Report suggests nearly half of U.S. jobs are vulnerable to computerization](#)



"We're down to two potential hires: you and an efficiency algorithm on a Malaysian server barge."

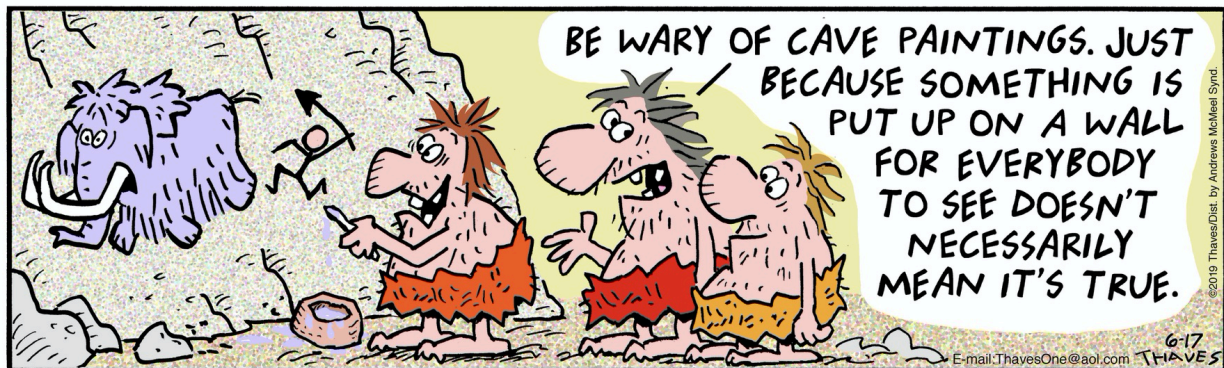
Information fluency

What does it mean to be information literate these days?

- [Schools are supposed to help students master the dominant information landscape of their time](#)
- [Stanford researchers find students have trouble judging the credibility of information online](#)
- [Younger Americans are better than older Americans at telling factual news statements from opinions](#)
- [Older people more likely to share fake news on Facebook, study finds](#)
- [Unthoughtful consumption](#)
- [New literacies, anyone?](#)
- [How school leaders can combat 'filter bubbles' and 'fake news'](#)
- [CU Denver professor explains why students suck at identifying fake news](#)
- [Say hello to the 'screenome'](#)
- [The frightening world of video fakes](#)
- [Media Literacy Now](#)
- [My world: Cultivating media literacy skills](#) [BBC & Microsoft]

Frank and Ernest

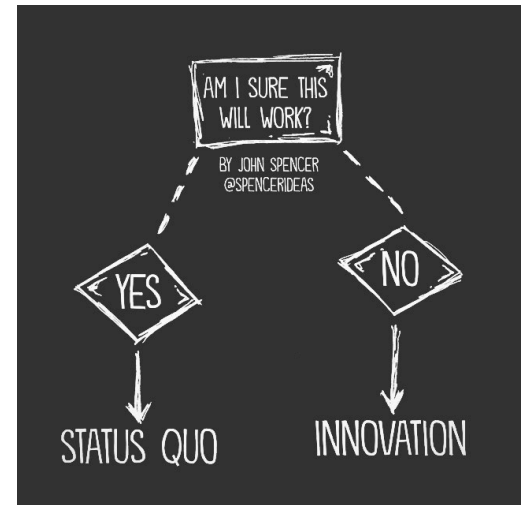
BY THAVES



Speed of change

How do we change faster?

- [18 things that leaders of innovative schools do differently](#)
- [10 qualities of a successful innovation leader](#)
- [Monkeys, flea jars, crab buckets, and educational risk-taking](#)
- [Resistance to change](#)
- [We can't do what that other school is doing because...](#)
- [Transform, not reform](#)
- [No one ever said](#)
- [Headwinds or tailwinds?](#)
- [Most educators do not have 'change fatigue'](#)
- [Change agents and the hiring dilemma](#)
- [Doomed](#)
- [How about a FedEx Day?](#)
- [Scaling creativity and innovation](#)
- [The entrepreneurial mindset](#)
- [Creating innovators](#), Tony Wagner
- [Giving schools an honest grade](#) [INFOGRAPHIC]



Equity

- [Social justice](#)
 - [Economically-disadvantaged students learn to do what the computer tells them](#)
 - [Be proud of your pockets of innovation. AND...](#)
 - [Two cans and a string aren't enough](#)
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More on the 4 big shifts

- Deeper thinking
 - [Bloom's taxonomy](#)
 - [Webb's depth of knowledge levels](#)
 - [The declining economic value of routine economic work](#)
 - [Do we have to cover low-level knowledge first?](#)
- Greater student agency
 - [Battling over the meaning of 'personalization'](#)
 - [Differentiation v. individualization v. personalization](#)
- More authentic work
 - [What does it take for a project to be 'authentic?'](#)
 - [Encouraging students to own their work](#)
 - [Authentic audience: A world of difference](#)
 - [The impact of service learning on students \[meta-analysis\]](#)
- Rich technology infusion
 - [The unholy trinitities of classroom technology usage](#)
 - [Stages of teacher technology learning](#)
 - [Typical classroom technology usage](#)
 - [Connected Learning infographic](#)

Solutions for Creating the Learning Spaces Students Deserve

Different Schools for a Different World



Scott McLeod
Dean Shareski

bit.ly/mcleodshareski

(big picture / relevance gaps)

Solutions for Creating the Learning Spaces Students Deserve

Harnessing Technology for Deeper Learning



Scott McLeod
Julie Graber

bit.ly/mcleodgraber

(protocol intro / redesign examples)

Additional resources

- [A pernicious myth: Basics before deeper learning](#)
- [New, strong evidence for problem-based learning](#)
- [Model schools and innovation networks](#)
 - [2017 New Tech Network Impact Report](#)
 - [Big Picture Learning - Outcomes](#)
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- [PBL \(and SEL\) in Philadelphia](#)

4 Shifts Protocol v1

- [All 4 Shifts Protocol resources \(bit.ly/4shifts\)](#)
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Free!

1. **4 Shifts Protocol**
2. [We need school to be different](#) (a call to action!)
3. [The challenges of digital leadership](#) [ARTICLE]
4. [3 minutes with the ISTE board](#) [VIDEO]
5. [Supporting effective technology integration and implementation](#) [BOOK CHAPTER]
6. [What's the biggest 'game changer' in education?](#)
7. [From fear to empowerment](#) (VIDEO; TEDxDesMoines)
8. [Principles for school districts' social media policies](#)
9. [27 Internet safety talking points](#)
10. [Education in a digital world](#) (VIDEO; AEA 267)
11. [Iowa, Did You Know?](#) (VIDEO; there's also a [facilitator's guide](#))
12. [Are schools dangerously irrelevant?](#) (VIDEO; TEDxASB)
13. [If we were really serious about educational technology](#)
14. [We can't let educators off the hook](#)
15. [Some awesome PowerPoint slides](#)

Please get yourself and your neighbors to:

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