

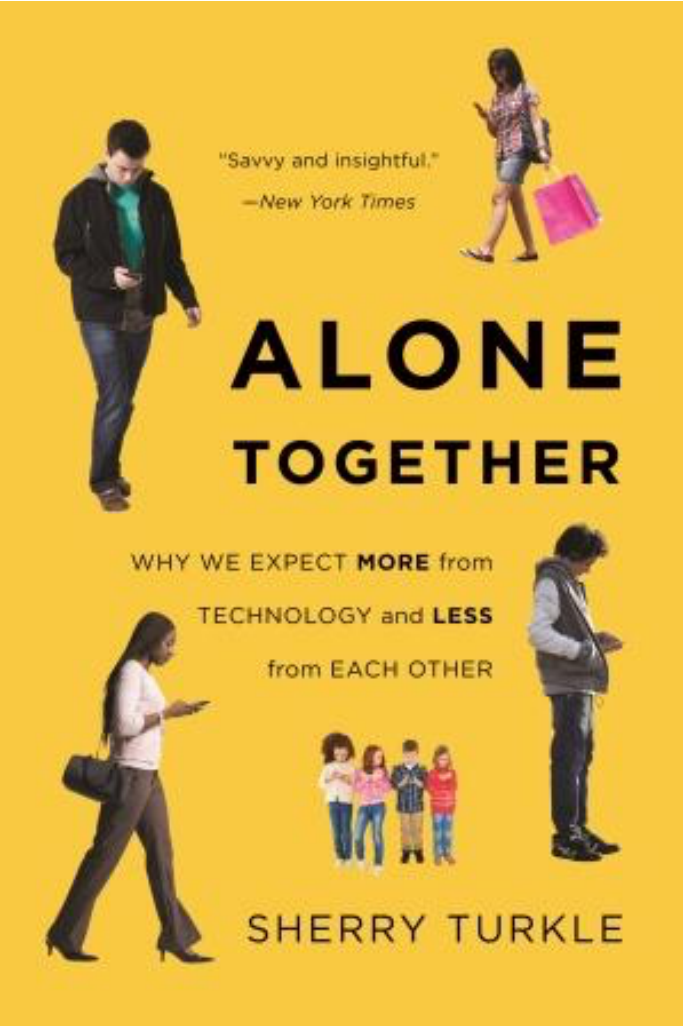


SMARTPHONES, LAPTOPS AND THE CLASSROOM

Robert Payne and Russell Williams

October 5th, 2016

AUP – Teaching and Learning Center



Personal tech is already in the classroom

- Digital natives
- Laptops, tablets and smartphones
- Bernard R. McCoy, 'Digital Distractions in the Classroom', (2013)
- 777 students surveyed; 6 US universities
- « The average respondent used a digital device for non-class purposes 10.93 times during a typical school day for activities including texting, social networking and emailing »
- « More than 80% of the respondents indicated such behavior caused them to pay less attention in the classroom and miss instruction »

Personal tech is already in the classroom

- James M. Lang, 'No, Banning Laptops is Not the Answer', *The Chronicle of Higher Education*, September 11, 2016
- « Devices have backed their way into high-school and elementary classrooms, and students in college will continue to want access to tools that have been present since their earliest school experiences »
- « The classroom should serve as an active laboratory of learning, a place where students engage with the course material through multiple cognitive streams »

But...

- Pam A. Mueller & Daniel M. Oppenheimer, 'The Pen is Mightier Than the Keyboard', *Psychological Science*, 2014
- « When laptops are used [...] to take notes, they may [...] be impairing learning because their use results in shallower processing »
- « Students who took notes on laptops performed worse on conceptual questions than students who took notes longhand »


But...

- Helene Hembrooke and Geri Gay, 'The Laptop and the Lecture: The Effects of Multitasking in Learning Environments', *Journal of Computing in Higher Education*, Fall 2003
- « Students [using laptops during lectures] suffered decrements on traditional measures of memory for lecture content »
- While students think they can multitask – they actually can't do so effectively

But...

- Louis-Philippe Beland & Richard Murphy, 'Ill Communication: Technology, Distraction & Student Performance', CEP Discussion Paper No. 1350, 2015
- Relationship between student achievement and banning mobile phones (four English schools)
- « increases in performance are driven by the lowest achieving students »
- Higher achieving students weren't really impacted
- « restricting mobile phone use can be a low-cost policy to reduce educational inequalities »

But...

Sections 

The Washington Post

Sign In

Subscri

Answer Sheet

Why a leading professor of new media just banned technology use in class

Clay Shirkey, New York University, 2014

« Allowing laptop use in class is like allowing boombox use in class – it lets each person choose whether to degrade the experience of those around them »

Productive uses for smartphones

1. Notifications, eg. Remind.com
2. Quick answers or Googling
3. Audience feedback, eg. PollEverywhere
4. Peer assessment, eg. GoogleForms, TodaysMeet, Twitter
5. Editing/commenting on group text, eg. GoogleDocs, Office 365, Twitter hashtag.
6. GPS/Geotagging



Productive uses for laptops

Collective mapping and diagramming

Coggle

Creately

XMind

Today's Meet

Today'sMeet

Enhance classrooms. Enable discussions. Empower students.

Today'sMeet gives everyone a voice

Twitter #hashtags

The image shows a screenshot of a Twitter profile page for Russell Williams (@russwilliams_uk) and a tweet from Le Grand Palais (@GrandPalaisRmn). The profile page includes navigation tabs (Accueil, Notifications, Messages), a search bar, and a list of suggestions. The tweet features a photo of a woman and text about the Queen of Belgium and the #Hergé hashtag.

Navigation: Accueil, Notifications, Messages

Search: Recherchez sur Twitter

Profile: Russell Williams
@russwilliams_uk
TWEETS: 11,6 k | ABONNEMENTS: 1 284 | ABONNÉS: 1 281

Suggestions:
- Niven Govinden @niven_go...
- Trevor Bastard 2000 @OhM...
- Katy Derbyshire @KatyDerb...

Tweet: Le Grand Palais
@GrandPalaisRmn · 11 s
Sa Majesté la Reine des Belges et les réclames d'#Hergé ! @MonarchieBe #Belgiumistrendy
Cet automne, prenez en plein les mirettes au Grand Palais ! #ExpoHergé #ExpoMexique #FantinLatour
TWEETS: 6 604 | ABONNEMENTS: 1 055 | ABONNÉS: 630 k

Google Drive

Google Drive