

## *Myths References*

### *Learning Styles: Adaptation*

Pashler, H., M. McDaniel, D. Rohrer, and R. Bjork. 2008. "Learning Styles: Concepts and Evidence." *Psychological Science in the Public Interest* 9(3): 105-119.

### *Learning Styles: Measurement*

Coffield, F., D. Mosely, E. Hall, and K. Ecclestone. 2004. "Should We Be Using Learning Styles? What Research Has to Say to Practice." London: Learning & Skills Research Centre.

### *Attention Span of a Goldfish*

Newman, S.D., T.A. Keller, and M.A. Just. 2007. "Volitional Control of Attention and Brain Activation in Dual Task Performance." *Human Brain Mapping* 28(2): 109-117.

Shank, P. 2017. "Attention and the 8-Second Span." *eLearning Industry*, April 4. <https://elearningindustry.com/8-second-attention-span-organizational-learning>.

### *Multitasking*

American Psychological Association. 2006. "Multi-tasking: Switching Costs." [www.apa.org/research/action/multitask.aspx](http://www.apa.org/research/action/multitask.aspx).

### *Dale's Cone*

Subramony, D., M. Molenda, A. Betrus, and W. Thalheimer. 2014. "The Mythical Retention Chart and the Corruption of Dale's Cone of Experience." *Educational Technology* 54(6): 6-16.

### *Generations*

Lester, S.W., R.L. Standifer, N.J. Schultz, and J.M. Windsor. 2012. "Actual Versus Perceived Generational Differences at Work: An Empirical Examination." *Journal of Leadership & Organizational Studies* 19:341-354.

Mencl, J., and S.W. Lester. 2014. "More Alike Than Different: What Generations Value and How the Values Affect Employee Workplace Perceptions." *Journal of Leadership & Organizational Studies* 21(3): 257-272.

### *Digital Natives*

Jones, C., and B. Shao. 2011. "The Net Generation and Digital Natives: Implications for Higher Education." New York: Higher Education Academy.

### *Digital Means We Learn Differently*

Brandon, R.N., and N. Hornstein. 1986. "From Icons to Symbols: Some Speculations on the Origins of Language." *Biology and Philosophy* 1:169- 189.

### *Left and Right Brain*

Nielsen, J.A., B.A. Zielinski, M.A. Ferguson, J.E. Lainhart, and J.S. Anderson. 2013. "An Evaluation of the Left-Brain vs. Right-Brain Hypothesis With Resting State Functional Connectivity Magnetic Resonance Imaging." PLoS ONE 8(8).

### *Male and Female Differences in Learning*

Joel, D., Z. Berman, I. Tavor, N. Wexler, O. Gaber, Y. Stein, N. She , J. Pool, S. Urchs, D.S. Margulies, F. Liem, J. Hanggi, L. Jancke, and Y. Assif. 2015. "Sex Beyond the Genitalia: The Human Brain Mosaic." Proceedings of the National Academy of Sciences 112(50).

### *Brain Training*

Simons, D.J., W.R. Boot, N. Charness, S.E. Gathercole, C.F. Chabris, D.Z. Hambrick, and E.A. Stine-Morrow. 2016. "Do 'Brain-Training' Programs Work?" Psychological Science in the Public Interest 17(3): 103-186.

### *10 Percent of Our Brain*

Boyd, R. 2008. "Do People Only Use 10% of Their Brains?" Scientific American, February 8. [www.scientificamerican.com/article/do-people-only-use-10-percent-of-their-brains](http://www.scientificamerican.com/article/do-people-only-use-10-percent-of-their-brains).

### *Neuro-Linguistic Programming*

Roderique Davies, G. 2009. "Neuro Linguistic Programming: Cargo Cult Psychology?" Journal of Applied Research in Higher Education 1(2): 58-63.

Sharpley, C.F. 1987. "Research Findings on Neurolinguistic Programming: Nonsupportive Data or an Untestable Theory?" Journal of Counseling Psychology 4(1): 103-107.

Witkowski, T. 2011. "Thirty-Five Years of Research on Neuro-Linguistic Programming. NLP Research Data Base. State of the Art or Pseudoscientific Decoration?" Polish Psychological Bulletin 41(2): 58-66.

### *Error-Free Learning*

Metcalf, J. 2017. "Learning from Errors." Annual Review of Psychology 68.

### *Images are 60,000 Times Better Than Text*

Levine, A. 2016. "Stop the Madness: The Proliferation of The 60000 Times Faster Myth Dances On." Cog Dog Blog, May 1. <http://cogdogblog.com/2016/05/stop-the-madness>.

### *People Don't Need Knowledge*

Willingham, D.T. 2006. "How Knowledge Helps: It Speeds and Strengthens Reading Comprehension, Learning—and Thinking." American Educator 1:30.

## *Superstitions*

Presentation = Acquisition  
Knowledge Test = Learning Outcome  
Interaction = Engagement  
Smile Sheets = Evaluation  
Learning Should Be Easy *or* Hard

## *Misconceptions*

70:20:10	Brainstorming
Microlearning	Gamification
Problem-Based Learning	Meta-Learning
7 – 38 – 55	Humor in Learning
Kirkpatrick	mLearning
NeuroX/BrainX	The Experience API
Social Learning	Bloom’s Taxonomy
UnLearning	Learning Management Systems

## ***Useful Resources***

*Millennials, Goldfish, & Other Training Misconceptions: Debunking Learning Myths and Superstitions.* Quinn, C. N. (2018). ATD Press.

Mythbusters: [quininnovation.com/translators.html](http://quininnovation.com/translators.html)

The Serious eLearning Manifesto: [elearningmanifesto.org](http://elearningmanifesto.org)

Debunker Club: [debunker.club](http://debunker.club)

Learning Development Accelerator [ldaccelerator.com](http://ldaccelerator.com) (evidence-based L&D society)

“How to Challenge” article: [td.org/insights/how-to-challenge-learning-myths](http://td.org/insights/how-to-challenge-learning-myths)

How People Learn, Bransford et al (click free PDF download): <http://tinyurl.com/hwvbut5>

Learning Solutions Mag: [learningsolutionsmag.com](http://learningsolutionsmag.com)

eLearn Mag (intersection of research & practice): [elearnmag.acm.org](http://elearnmag.acm.org)

ATD Science of Learning: [td.org/topics/science-of-learning](http://td.org/topics/science-of-learning)

Clark’s blog: [learnlets.com](http://learnlets.com)

More about and reaching Clark: [quininnovation.com](http://quininnovation.com)