Here are some references related to my talk today that I thought you might find interesting. I’ve also included some more-general references, and a selection about tackling misconceptions.

If you want to spend time finding out more about these and other topics, I recommend you track back to the original research papers and/or look for peer-reviewed meta-analyses or literature reviews where possible. It’s also helpful to look for contradictory evidence.

**If you only read one thing:**

Principles of Instruction, research-based strategies that all teachers should know, Barak Rosenshine. This is a holy text in evidence-based teaching, outlining techniques that are strongly backed up by evidence. [https://www.teachertoolkit.co.uk/wp-content/uploads/2018/10/Principles-of-Instruction-Rosenshine.pdf](https://www.teachertoolkit.co.uk/wp-content/uploads/2018/10/Principles-of-Instruction-Rosenshine.pdf)

**Inspiring Education Research Books:**

How Learning Happens, seminal works in educational psychology and what they mean in practice, Paul A Kirschner & Carl Hendrick. This is an accessible run-through some important research papers. [https://www.amazon.co.uk/How-Learning-Happens-Paul-Kirschner/dp/0367184575/](https://www.amazon.co.uk/How-Learning-Happens-Paul-Kirschner/dp/0367184575/)

The Hidden Lives of Learners, Graham Nuthall. An incredible book!! He wired up an entire classroom with cameras and microphones, added human observers, and tracked people in exquisite detail for over a year. Then trawled through the huge amount to data to work out in detail how different behaviours/activities had contributed to their learning. This book is just mindblowing. [https://www.amazon.co.uk/Hidden-Lives-Learners-Graham-Nuthall/dp/1877398241](https://www.amazon.co.uk/Hidden-Lives-Learners-Graham-Nuthall/dp/1877398241)

Why don’t Students like School?, David Willingham [https://www.amazon.co.uk/Why-Dont-Students-Like-School/dp/047059196X](https://www.amazon.co.uk/Why-Dont-Students-Like-School/dp/047059196X)

Understanding How we Learn, a visual guide, Yana Weinstein and Megan Sumeracki with Oliver Caviglioli [https://www.amazon.co.uk/Understanding-How-We-Learn-Visual/dp/113856172X](https://www.amazon.co.uk/Understanding-How-We-Learn-Visual/dp/113856172X)

The Eureka Factor: Aha Moments, Creative Insight and the Brain, John Kounios and Mark Beeman. Explains how creativity requires both analytical and insightful thought, and how these differ. [https://www.amazon.co.uk/Eureka-Factor-Moments-Creative-Insight/dp/1400068541](https://www.amazon.co.uk/Eureka-Factor-Moments-Creative-Insight/dp/1400068541)
Education Research sources:

Institute of Education Studies (US), funds large scale education research, and collates education research, evaluation and statistics in formats aimed at a variety of audiences. Part of the US Department of Education. [https://ies.ed.gov/](https://ies.ed.gov/)


ResearchEd, evidence-based teaching network. They are evangelical about evidenced-based instruction and cognitive science, and run cheap CPD events open to all. There are different branches in different countries, here’s the UK one: [https://researched.org.uk/](https://researched.org.uk/)

Education Research web resources:

A Private Universe, an excellent 20 minute film revealing how pervasive and sticky misconceptions can be. Highly recommended. [https://www.learner.org/series/a-private-universe/](https://www.learner.org/series/a-private-universe/)


Constructivist Perspectives on Learning, a 30 minute lecture introduction to Constructivist teaching, aimed at teachers. Delivered by Prof Keith Taber, Prof of Science Education, University of Cambridge. [https://www.youtube.com/watch?v=50IVLYAXzYE](https://www.youtube.com/watch?v=50IVLYAXzYE)

Tackling Misconceptions


Debunking: A Meta-Analysis of the Psychological Efficacy of Messages Countering Misinformation, Chan et al., Psychological Science 2017, Vol. 28(11) 1531-1546. This influential paper is the source of the structured debunking strategy described in many articles including the previous reference. [https://journals.sagepub.com/doi/full/10.1177/0956797617714579](https://journals.sagepub.com/doi/full/10.1177/0956797617714579)


I write a column about misconceptions for the International Planetarium Society’s “Planetarian” magazine. These are available on the IPS website or in my blog at [www.jennyshipway.com](http://www.jennyshipway.com).