



WELCOME TO THE COGNITIVE SCIENCE NETWORK

Dear fellow networker,

Welcome to membership of the Cognitive Science Network class of 2022. We are both excited about the possibilities and opportunities that this new network has and are honoured that you have chosen to join us.

The Cognitive Science Network was inspired by **two challenges** that we were hearing about during our work with schools and colleges.

The first was that, with the volume of research published each year, **how could schools hope to stay up-to-date with their understanding of the research literature?** Practically, it can be difficult as research is often behind paywalls, not easy to locate and not written for those who need it the most (i.e. teachers).

The second was **the difficulty of translating research findings into best practice in the classroom.** Instead of a long voyage of trial-and-error, we knew that the process could be sped up by connecting like-minded teachers and experts who were wrestling with the same questions together into a network.

We know research has its limitations. It can only ever provide guidelines or suggestions. But these need to be applied into your specific context. William James, often considered to be one of the founding fathers of modern psychology, once wrote that *“psychology is a science and teaching is an art. Sciences never generate arts directly out of themselves. An intermediary inventive mind must make the application, by using its originality”*. **The Cognitive Science Network class of 2022 aims to help all of us make that application better.**

Thank you for making us part of your school's/college's journey. We are excited about what we can all develop together.

Regards,



Bradley Busch
InnerDrive Psychologist



Edward Watson
InnerDrive Founder

MEET INNERDRIVE

“ **Understanding how students learn is fundamental to great teaching.** ”

Who we are

InnerDrive is a teaching & learning coaching company.

Over the last 14 years, we have worked with hundreds of schools and colleges in the UK and around the world to help improve teaching & learning.

Why we do it

We want to make the world a better place by changing lives. We believe that **learning effectively and efficiently is the key that unlocks every individual's true potential.**

How we do it

We translate cognitive science research so that it can be applied in the classroom to improve teaching & learning.

We do this through a mixture of in-person and online workshops, writing and one-to-one coaching.

We help teachers to understand, reinforce and improve their skills through our **teacher CPD workshops**. We work with students to improve their learning, resilience and mindsets through our comprehensive set of **student workshops**. We also help parents to support their children to flourish in education through our **parent workshops**.



Bradley Busch

Bradley Busch is a HCPC registered psychologist and director of InnerDrive. Within education, he has worked with over 300 schools helping them use psychological research to help improve learning. His main area of interest is on the research on retrieval practice, cognitive load, spacing and interleaving. He is the co-author of the best-selling book *The Science of Learning* and used to write two education blogs for The Guardian.

Outside of education, he works in sport psychology, including with Premiership footballers from Manchester United, Manchester City and Tottenham, as well working with Team GB Olympians and Paralympians who have medalled at London 2012, Rio 2016 and Tokyo 2020.



Edward Watson

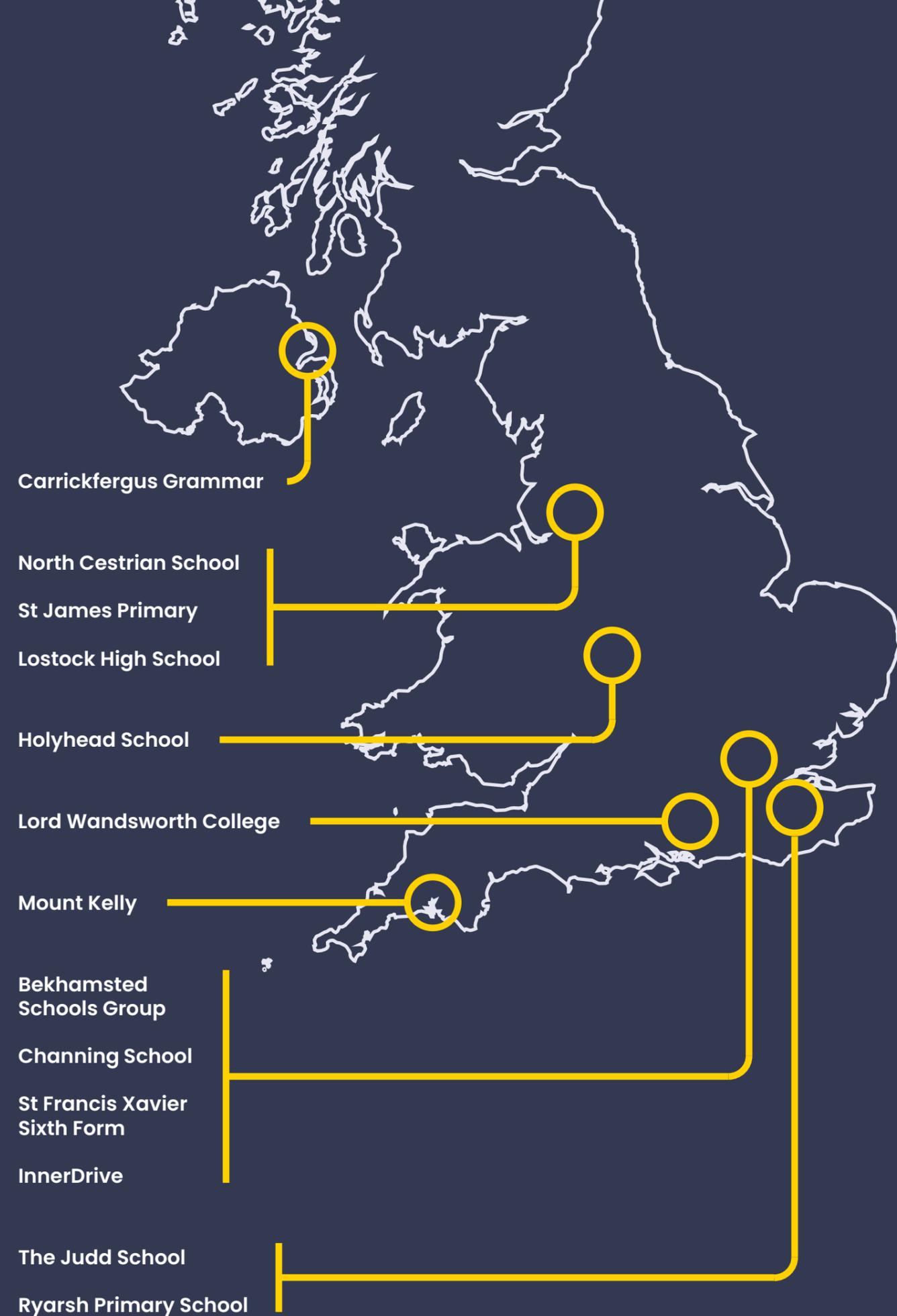
Edward Watson read Chemistry at Oxford University before serving seven years in the army. After completing an MBA at London Business School, he worked as a strategic management consultant and then in the computer games industry. In 2006, he founded InnerDrive, a teaching & learning coaching company that helps people develop the right mindsets to do well at school, in business, in sport and in life.

Over the past decade, Edward has designed and delivered student workshops, parent workshops and teacher CPD for hundreds of schools in the UK and around the world. He is co-author with Bradley of *The Science of Learning*, *A Parent's Guide to The Science of Learning* and *Release your Inner Drive*.

MEET THE MEMBERS

As a group, the class of 2022 covers the whole range of the education landscape. What connects and binds us all is that all the schools and colleges in the Cognitive Science Network share the desire to be at the forefront of applying cognitive science to their teaching.

After our conversations with every school or college that has joined the network, we can say that the collective knowledge, experience and understanding of cognitive science research among the class of 2022 is already at an incredibly high level. It is exciting to think of what we can all achieve together.



THE SCHEDULE

Our aim has been to recruit some of the most renowned experts in each field to help inform and develop the Cognitive Science Network. We are honoured and excited to hear each of our speakers present on the research out there and the potential application of it within schools and colleges.

All online masterclasses will take place from 16.30 to 18.00.

SEPTEMBER

14 September

Everything you Need to Know about the Cognitive Science Network: An Introduction, 17.00

21 September

How Cognitive Load Theory Changed my Teaching
Bradley Busch & Zach Groshell

28 September

Retrieval Practice, Spacing and Interleaving: The latest research and mistakes to avoid
InnerDrive

OCTOBER

5 October

Pitfalls and Chokepoints in Learning (and How Cognitive Science Can Help)
Blake Harvard

12 October

Becoming an Evidence-Based School
Jade Pearce

19 October

4 Counterintuitive Concepts on How we Learn
Sarah Cottingham

NOVEMBER

3 November

Developing Metacognitive Science *
Jennifer Webb

9 November

Translating Cognitive Science into Excellent Classroom Practice
Dr Tom Perry

16 November

Applying Cognitive Science to Your Curriculum Design
Lekha Sharma

23 November

Applying Cognitive Science to SEND Students
Dr Pippa Busch & Bradley Busch

30 November

A Headteacher's Perspective on Applying Cognitive Science
Bruce Robertson

DECEMBER

7 December

Final Reflections
Bradley Busch & Edward Watson

JANUARY

7 January

Gala Dinner
18.30 for 19.00 at The Ivy, 1-5 West Street, London, WC2H 9NQ

** Date subject to change*

MEET THE SPEAKERS



Zach Groshell

How Cognitive Load Theory Changed My Teaching, 21 September

Zach is an experienced primary school teacher, having taught 2nd-5th grade in the USA, Vietnam, Sudan, and China. He has just completed his PhD in Education with a specialisation in instructional design. Zach maintains an active professional presence on Twitter (follow him @mrzachg) and on his blog, educationrickshaw.com.

Why we have asked Zach to speak: Zach has incredible knowledge and experience applying Cognitive Load Theory in the classroom. One of his blogs, on how the theory has transformed his teaching, is one of the best we have ever read on the topic.



Blake Harvard

Pitfalls and Chokepoints in Learning (and How Cognitive Science Can Help), 5 October

Blake Harvard is an AP Psychology teacher at a high school in Alabama. He reads and writes about the application of cognitive psychology in the classroom to improve learning outcomes at his website, [The Effortful Educator](http://TheEffortfulEducator.com). Blake has worked with the National Center for Education Research, Chan Zuckerberg Initiative, ISTE, COGx, and Deans for Impact in an advisory role.

Why we have asked Blake to speak: Every time we have heard Blake present, we have been blown away by his ability to explain cognitive science in a clear and meaningful way. The study that he is presenting on is one of our favourites as it offers real insight into student learning.



Jade Pearce

Becoming an Evidence-Based School, 12 October

Jade Pearce is an Assistant Headteacher leading on Teaching and Learning and professional Development at Walton High School in Staffordshire. She is an Evidence Lead in Education for Staffordshire Research School and a member of the Education Endowment Foundation's Expert Voices Group. She is the author of the evidence-based book *What Every Teacher Needs to Know*. You can find her on Twitter at @PearceMrs.

Why we have asked Jade to speak: It is no exaggeration to say that we are in awe of Jade's knowledge of the research. Having seen her present several times and read her book, we are in no doubt that she can offer incredible insight into how to embed cognitive science guidelines across a whole school.



Sarah Cottingham

4 Counterintuitive Concepts on How We Learn, 19 October

Sarah Cottingham was an English teacher and now works as a teacher educator working on the NPQs and supporting schools with their professional development. Sarah recently completed an MA in Educational Neuroscience and blogs at overpractised.com.

Why we have asked Sarah to speak: Sarah is a real fountain of knowledge when it comes to cognitive science. Her blogs and Twitter threads on the topic are legendary. She is one of our go-to people whenever we have any questions on cognitive science.



Jennifer Webb

Developing Metacognitive Science, 3 November

Jennifer Webb is an English Teacher, Assistant Principal and Research Lead at Trinity Academy Cathedral in Wakefield. She is an education author, blogger and speaker with interests in cognitive science, literacy, disadvantage and EDI. Jennifer curates *The Reading List Project*, the *Amplify* blog, hosts a regular online CPD program and is privileged to act as chair of Trustees for the Maternity Teacher Paternity Teacher Project. She has written a number of best-selling books for teachers, including *The Metacognition Handbook* (JohnCatt, 2021). She is currently writing *Essential Grammar* with Marcello Giovanelli, which will be released by Routledge in early 2023.

Why we have asked Jennifer to speak: Jennifer's book, *The Metacognition Handbook* is in our opinion, the best and most comprehensive book on applying metacognition in education.



Dr Tom Perry

Translating Cognitive Science into Excellent Classroom Practice, 9 November

Tom Perry researches and teaches at the University of Warwick, with a focus on research methods and evidence-informed policy and practice. He led the recent EEF Cognitive Science in the Classroom Review and has researched topics including school progress measures, educational disadvantage and inequalities, school mobility, and effective professional development. Tom works with teachers, school leaders and researchers to better understand how we can generate, exchange and use evidence to improve education.

Why we have asked Tom to speak: As the lead researcher for the Education Endowment Foundation's *Cognitive Science Approaches in the Classroom*, it is hard to think of anyone who has a better grasp of the research. We can't wait to hear his thoughts on what we do and don't know when it comes to applying cognitive science.



Lekha Sharma

Applying Cognitive Science to your Curriculum Design, 16 November

Lekha Sharma is a Head of School and the author of *Curriculum to Classroom* (John Catt). She is a Postgraduate student at the University of Oxford studying Learning and Teaching, and has previous experience as a Vice Principal leading on Quality of Education as well as being the Evidence Lead in Education for the Greenshaw Research School.

Why we have asked Lekha to speak: Lekha's book, *Curriculum to Classroom* is such a good read. As it is impossible to separate pedagogy from curriculum, we have asked Lekha to present on how to apply and weave cognitive science principles into curriculum design. This area is undoubtedly a vital consideration for all schools and colleges.



Dr Pippa Busch

Applying Cognitive Science to SEND students, 23 November

Dr Pippa Busch is a Child and Exercise Psychologist, specialising in working with SEND students. Dr Busch has worked with thousands of teachers from hundreds of schools, helping them translate psychological research into day-to-day strategies that they can use in their classroom.

Why we have asked Pippa to speak: Supporting SEND students is more important now than ever. Having worked with hundreds of schools, Pippa has unique experience and skills in helping schools identify what adaptations they can make to help them successfully apply cognitive science principles to their SEND students.



Bruce Robertson

A Headteacher's Perspective on Applying Cognitive Science, 30 November

Bruce Robertson is the Rector of Berwickshire High School and author of *The Teaching Delusion* trilogy, published by John Catt Educational. As a Chemistry teacher and senior leader, he has been working in education for almost 20 years. In recent years, Bruce has been in high demand as a consultant and conference presenter. He works closely with primary and secondary schools, keeping teaching and learning improvement at the centre of everything he does.

Why we have asked Bruce to speak: Bruce's book series, *The Teacher Delusion* are some of our favourite education books. Being in charge of a school and having such great knowledge of applying cognitive science means he can offer a rare insight into what has worked well and what mistakes we could all avoid.

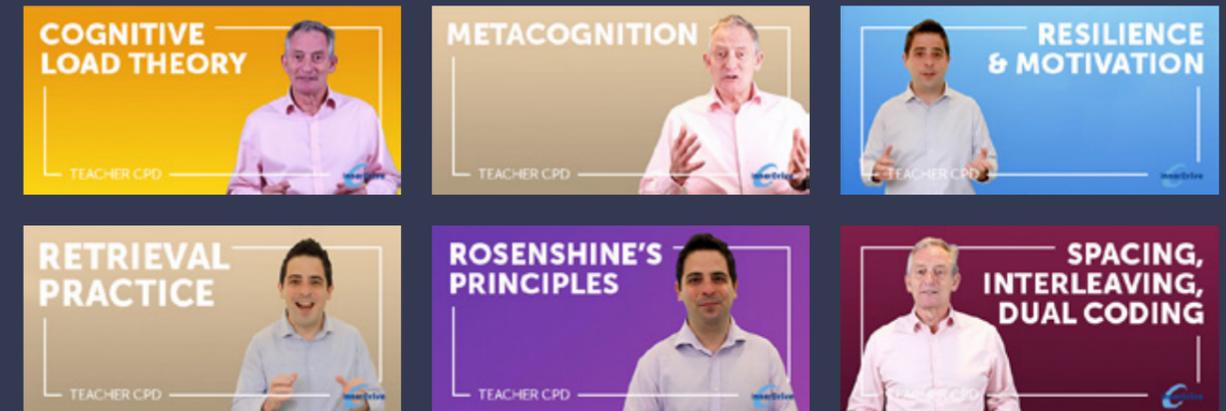
THE OTHER PERKS OF THE COGNITIVE SCIENCE NETWORK

Access, instructions and login details for both your InnerDrive Online Academy and Cognitive Science Network Hub profiles will be sent to before the start of the term, so keep an eye on your inbox.

The InnerDrive Online Academy

As part of your membership of the Cognitive Science Network, you get **free access to the InnerDrive Online Academy**.

There, you will be able to access current online modules on the practical use of cognitive science within schools. These modules can be accessed at any time through a browser.

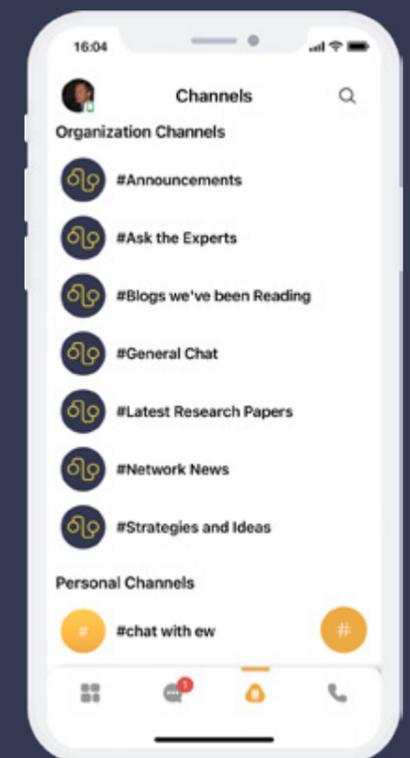


The Cognitive Science Network Hub

The aim of the Cognitive Science Network is to develop and share best practice in the use of cognitive science research in education.

Easy, effective communication between members combined with a durable repository for the resultant conversations, ideas and resources is essential.

The Cognitive Science Network Hub will provide a simple way to communicate with each other as well as give access into the future to all the gold dust generated. The Hub will be available on iOS, macOS, Linux, Android, Windows, and via a browser.



HOW TO GET IN TOUCH

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