



Thinking & Learning Events

DAVID SOUSA



MELBOURNE

Friday 22 - Monday 25 May 2015

There is a keynote session each morning and
then all breakout sessions for this conference are 1.5 hours in length

Friday 22 May 2015

DIFFERENTIATION & THE BRAIN Institute

David Sousa & Carol Ann Tomlinson

The emerging field of neuroscience offers fascinating and useful insights into how the brain learns. Understanding ways in which teachers can develop brain-friendly classroom practice greatly enhances both the quality of teaching and of learning. Brain science affirms the educator's observations that students differ as learners, even as they bring commonalities to the classroom.

In this one-day institute, David Sousa, an expert on brain science and its implications for teaching and learning, and Carol Ann Tomlinson, an expert on teaching with student differences in mind, combine their areas of interest to help educators explore ways in which neuroscience can inform development of learner-friendly classrooms, F-12. The institute will probe ways in which neuroscience can inform and enhance teacher planning for learning environments that improve student development, the impact of formative assessment, attention to student variance and creates meaningful curriculum and effective classroom management.

Saturday 23 May 2015

Session One | 9:30 am– 11:00 am

How Technology is Changing the Brain – and What to Do About it

Our brain continually reorganises itself based on input from its environment, a process called neuroplasticity. Technology is a dominant part of our lifestyle and the brain is adapting accordingly. But not all neural adaptations have beneficial outcomes for teaching and learning. Explore the profound impact that technology has on the brain's ability to focus, persist, remember, multi-task and get much-needed sleep. Technology is here to stay and teachers need to be aware of its impact in order to plan more successful lessons.

Session Two | 11:30 am– 1:00 pm

How the Brain Learns Mathematics

Learn how the brain processes mathematical concepts and why some students develop maths anxiety! Examine the latest neuroscientific findings and discuss the impact this information has for teaching mathematics. We will look at the cognitive mechanisms for learning mathematics and the environmental and developmental factors that contribute to student difficulties. Learn the instructional strategies and activities for a mathematics-friendly classroom.

Session Three | 2:00 pm– 3:30 pm

Update on How the Brain Learns to Read

Look at the latest neuroscience of reading. Learn how young brains make sense of printed language and how teachers can use that information to reach students of all ages and skill levels. Tailor strategies to the unique needs of students with dyslexia and other reading difficulties. Come find out what is new so you can ensure a brighter future for your students in the classroom and beyond.

Sunday 24 May 2015

KEYNOTE: Designing Brain-Friendly Schools in the Age of Accountability

This cutting-edge keynote discusses some remarkable findings on brain research about how we learn and their implications for everyone involved in building, leading and teaching in schools. Can we really embrace school change in the age of high stakes testing and accountability? There will definitely be some surprises!

Session One | 9:30 am– 11:00 am

How Technology is Changing the Brain – and What to Do About It

Repeat Session from Saturday 23 May; Session One

Sessions Two and Three | 11:30 am– 3:30 pm

From STEM to STEAM: Integrating the Arts for Greater Success (this is a two-part session)

Several countries, including Australia, have focused on initiatives to improve student achievement in science, technology, engineering and mathematics – the so-called STEM subjects. But are they really working? We need to build the skills mathematicians and scientists need! "A" is for the arts, as well as for the advantage that students gain when you integrate the arts into daily STEM instruction. As research in cognitive and social neuroscience shows, arts activities enhance creativity, problem solving, memory systems and analytical skills – all of which are critical for achieving success in the STEM disciplines.

In Session one, we explore the details of brain research connecting STEM and the arts and discuss the advantages of integrating art activities into STEM instruction. Examine teacher-tested techniques for fitting the arts into STEM classrooms so teachers work smarter, not harder. In Session two, discover more lesson plans and a teacher-tested template for planning STEAM lessons.

Monday 25 May 2015

Session One | 9:30 am– 11:00 am

How the Brain Influences Behaviour

Explore recent research on how the brain learns, as well as practical applications to the teaching/learning process. The session includes topics such as the brain's information processing system, what the "wired" brain of today's student expects in school, the effects of emotions and the self-concept on learning, understanding memory and improving recall. David will update the participants on brain research into learning, so they can consider which strategies are more likely to result in successful learning.

Session Two | 11:30 am– 1:00 pm

How the Brain Learns Mathematics

Repeat Session from Saturday 23 May; Session Two

Session Three | 2:00 pm– 3:30 pm

Update on How the Brain Learns to Read

Repeat Session from Saturday 23 May; Session Three

SYDNEY

Wednesday 27 - Thursday 28 May 2015

There is a keynote session each morning and
then all breakout sessions for this conference are 2 hours in length

Thursday 28 May 2015

Sessions One | 8:30 am– 10:30 am

How Technology is Changing the Brain – and What to Do About it

Our brain continually reorganises itself based on input from its environment, a process called neuroplasticity. Because technology is becoming such an integrated and dominant part of our lifestyle, the brain is adapting accordingly. But not all neural adaptations have beneficial outcomes for teaching and learning. This interactive session explores the profound impact that technology is having on the brain's ability to attend, focus, persist, remember, multi-task (is there really is such a thing?) and get much-needed sleep. Technology is here to stay and teachers need to be aware of its impact in order to plan more successful lessons. There will definitely be some surprises!

Session Two | 11:00 am– 1:00 pm

How the Brain Learns Mathematics

Learn how the brain processes mathematical concepts and why some students develop maths anxiety! In this session, we examine the latest neuroscientific findings in practical, understandable terms and discuss the impact this information has for teaching mathematics at all year levels. We will look at the cognitive mechanisms for learning mathematics and the environmental and developmental factors that contribute to mathematics difficulties. Teachers of mathematics at all levels will find this session helpful for deciding which instructional strategies and activities to use in creating a mathematics-friendly classroom.

Session Three | 2:00 pm– 4:00 pm

Update on How the Brain Learns to Read

No skill is more fundamental to our students' education than reading. In this interactive session, we look at the latest neuroscience of reading. We ask how exactly do young brains learn to make sense of printed language and how can teachers use that information to reach students of all ages and skill levels. We will also examine ways to tailor strategies to the unique needs of students with dyslexia and other reading difficulties, including those receiving instruction through successful intervention models. No school can afford to teach reading skills from an outdated knowledge base. Come find out what is new so you can ensure a brighter future for your students on the page, in the classroom and beyond.



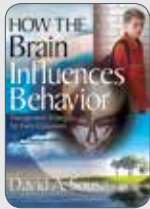
DAVID SOUSA

David (EdD) is an author and international consultant. He taught high school science and served as a K–12 director of science, a supervisor of instruction and a district superintendent in New Jersey schools. He has also been an adjunct professor of education at Seton Hall University and a visiting lecturer at Rutgers University.



MELBOURNE

22–25 May

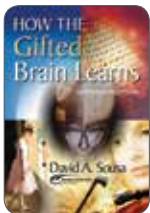


How The Brain Influences Behavior

David Sousa • 9781742394701

This guide provides methods for teaching self-control and fostering positive relationships with troubled students, including case studies that match effective strategies with specific behaviours. Sousa presents current information on brain development, highlighting factors that affect social and emotional decision making, as well as negative behaviours.

CO0175 • \$50.00

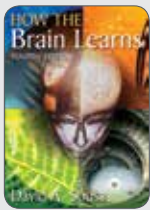


How the Gifted Brain Learns, 2nd Ed.

David Sousa • 9781742393438

This edition leverages the latest neuroscientific findings to provide teachers with strategies for becoming intellectually advanced learners. This guide enables teachers not only to recognise and challenge their gifted learners, but also to support gifted students who underachieve. The text includes chapters dedicated to talents in language, maths and the arts.

CO3438 • \$55.95



How the Brain Learns, 4th Ed.

David Sousa • 9781760013509

In this new edition of *How the Brain Learns*, Sousa integrates the most current developments in neuroscience, education and psychology, informing your instruction and enhancing your students' learning. This indispensable volume will help you rediscover the joy of seeing students reach their full potential.

CO3509 • \$38.95



Mind, Brain & Education

David Sousa • 9781742397580

What are the neurological foundations of learning and of individual differences in learning? How did educators get involved with neuroscience, and where might this involvement lead? What does neuroscience reveal about the brain's ability to use language, to use mathematics and to think creatively? *Mind, Brain & Education* features the insights of leading researchers in the emerging field of educational neuroscience into the learning process and explores its implications for

educational theory and practice.

SOT7580 • \$39.95



How the ELL Brain Learns

David Sousa • 9781742398419

Teachers are more likely to succeed if they have a deeper understanding of the challenges students face in trying to learn English and course content simultaneously. *How the ELL Brain Learns* combines current research on how the brain learns language with strategies for teaching English language learners in P–12 classrooms.

CO8413 • \$42.95

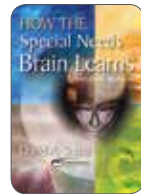


Brainwork

David Sousa • 9781743306048

Outsmart the competition by understanding the way your internal and external customers think, plan and come to conclusions. Sousa compiles the most progressive and provocative brain research in the field to help build a better brain for business.

SOT6048 • \$21.95



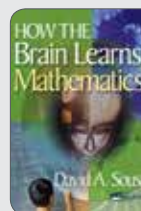
How the Special Needs Brain Learns, 2nd Ed.

David Sousa • 9781742394701

In this revised edition, Sousa examines learning strategies that can be adapted for students with learning disabilities such as ADHD/ADD; learning disabilities; emotional and behavioural disorders; autism; and Asperger's syndrome. Emphasising lifelong independent learning, increased retention and cognitive flexibility, Sousa offers real strategies for real classrooms. This

book is an indispensable tool for all educators and administrators, as well as parents who want to better understand the way their children process and retain information.

CO4701 • \$49.95



How the Brain Learns Mathematics

David Sousa • 9781741704570

This book covers the cognitive mechanisms for learning mathematics, the factors that contribute to difficulties and ways to differentiate instruction. The text offers a unique and simplified four-tier model for teaching mathematics to P–12 students that helps teachers consistently relate what learners experience in the classroom to concrete, real-world applications. Teachers of mathematics at all levels will find this book invaluable for choosing which instructional strategies and

activities to use in creating a mathematics-friendly classroom.

CO457X • \$60.00



How the Brain Learns to Read, 2nd Ed.

David Sousa • 9781743307472

No recent book has done more to advance our understanding of the neuroscience behind the fundamental skill of reading than *How the Brain Learns to Read*. Sousa reveals at last how exactly young brains learn to make sense of printed language and how you can use that information to reach students of all ages and skill levels. With this new edition of Sousa's modern classic, you can ensure a brighter future for your students, on

the page, in the classroom and beyond.

CO7472 • \$43.95



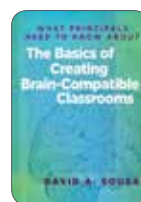
Differentiation and the Brain

David Sousa, Carol Ann Tomlinson • 9781742398037

This book examines the principles of differentiation in light of current brain based research, addressing differentiation and student readiness, student interest, and student learning profiles. The authors provide multiple suggestions of how to design and implement strategies such as tiering, student contracts and anchor activities. It also explains the brain science behind differentiation and clarifies why certain strategies are

more successful than others.

SOT8037 • \$39.95



What Principals Need to Know About

David Sousa • 9781742392080

Designed to meet the unique needs of P–8 principals and administrators, this guide examines the basics of brain-compatible learning. Sousa guides principals through a tour of brain structures and reveals the latest discoveries of how the brain works. Sousa presents applications of educational neuroscience to build productive and successful brain-compatible classrooms. The overview of educational

neuroscience presented is designed to help principals construct meaningful professional development that enhances teachers' knowledge and skills about brain-compatible learning.

SOT2080 • \$21.95