Differentiation and the Brain: How Neuroscience Supports the Learner-Friendly Classroom

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Date Available: 14 October 2010
ISBN: 978 1 74239 8037
Code: SOT8037
RRP: $39.95
Format: A4, 212 pages
Year Level: Years P–12
Category: Differentiated Learning
Subject: Thinking Resources

Summary:
This book examines the principles of differentiation in light of current brain based research. It provides a detailed overview of differentiation in practice, answering questions regarding differentiation and student readiness, student interest, and student learning profiles. The book provides multiple suggestions of how to design and implement strategies such as tiering, student contracts and anchor activities. It also aims to explain the brain science behind differentiation and clarify why certain strategies are more successful than others. Case studies are provided including typical classroom situations which offer suggestions for improvement, as well as scenarios to help teachers envision differentiation strategies working in their own classrooms. Each chapter concludes with exercises and questions for teacher reflection so teachers can make the best choices to meet the needs of an increasingly diverse student population.

Supporting Resources:
- The Leadership Brain: How to Lead Today’s Schools More Effectively (CO0701)
- How the Brain Learns to Read (CO071X)
- How the Brain Learns (CO0965)
- Differentiated Instruction: Strategies for Addressing Academic Diversity in the Middle Years (NM6118)
- Smart in the Middle Grades: Classrooms that work for Bright Middle Schoolers (HB3301)

Key Words: Differentiation, differentiated, differentiating, differentiate, brain research
Hawker Brownlow Education

Curriculum, assessment, neuroscience, learning, tiering, student contracts, student readiness, student learning profiles, strategies, exercises, reflection, science, ZPD, Sternberg, practical intelligences, multiple intelligences, thinking caps