NEUROSCIENCE & THE CLASSROOM: MAKING CONNECTIONS

Exciting developments in the field of neuroscience are leading to a new understanding of how the brain works that is beginning to transform teaching in the classroom. Neuroscience & the Classroom: Making Connections brings together researchers and educators in a dialog about how insights into brain function can be harnessed by teachers for use in their own classrooms to address their own particular challenges. Course components include 42 video segments interwoven with an online text and other useful resources on a comprehensive Web site. The Web also includes interactive simulations of neuroscience research tools, glossary, and course guide for teachers to use for sustained professional development. Produced by Science Media Group at the Harvard-Smithsonian Center for Astrophysics in association with the Mind, Brain, and Education program at the Harvard GSE; and the Brain and Creativity Institute and Rossier SOE at the University of Southern California. 2012.

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24. Attention and Magic
25. Working Memory and Attention
26. Implicit Learning
27. Success Story: Dr. Alexander Goldowsky
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29. Success Story: Kent Sinclair
30. Success Story: Dr. Temple Grandin
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33. DiscoTests: A New Approach to Assessment
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35. Scaffolding: Johanna and Her Mother with Commentary
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7. Learning From Others: Learning in a Social Context
8. Watch It, Do It, Know It: Cognitive Apprenticeship
9. Thinking About Thinking: Metacognition
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30-MINUTE PROGRAMS

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2. By Leaps and Bounds
3. Babies Are Children, Too
4. Dealing With Feelings
5. I’m Glad I’m Me
6. Listening to Families
7. Everybody’s Special
8. Getting Along Together
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12. Let’s Talk About It
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  The Whole Child, by Weissman et al., Prentice Hall, 2001
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  The Whole Child, by Weissman et al., Annenberg/CPB, 2001

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LOOKING AT LEARNING...AGAIN, PART 2

Through personal interviews, teacher discussions, and classroom footage, this workshop encourages teachers to analyze major theories about how children learn, as well as their own beliefs, and then examine how those beliefs might influence teaching. Each workshop features a different expert’s learning theory and provides the opportunity to discuss, critique, and apply the ideas presented. Produced by the Harvard-Smithsonian Center for Astrophysics. 2000.

60-MINUTE PROGRAMS

1. Behind the Design
2. Mathematics: A Community Focus
3. Learning To Share Perspectives
4. Conceptual Change
5. Infusing Critical and Creative Thinking
6. Algebra and Calculus: The Challenge
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8. Learning To Listen

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