Effective Practice Briefings

A series of audio conversations with national experts focusing on evidence based practice in education

How to Explain the Brain With Dr. Robert Sylwester

Interview Outline

Part I

Recent discoveries in neuroscience in context with teaching and learning and the basic human need for movement

- Many school practices don't currently relate to how the brain learns
- Teachers have observed much of what neuroscience is showing
- Why do we even have a brain?
- Learning is more than getting the right answer on the test the process and experience of learning make good brain sense



Part II Mirror Neurons and how they work

- Learning
- The development of empathy

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Mirror Neurons and how they work continued

- Language acquisition
- Autism as a non-robust mirror neuron system



How it all relates to teaching and learning

- Mirror neurons tell us HOW we interact with kids and move through time with them is central to what they learn
- The importance of cooperative learning, particularly in middle and high school
- Learning and memory assessing dangers and opportunities in our time space world
- How birth 20 brain development relates to learning
- Providing opportunities to take measured risks
- The opportunity and responsibility to apply brain research in your classroom practice

Produced by Dr. Shannon Simonelli, Center on Disability Studies, University of Hawai`i at Manoa www.sig2.hawaii.edu