

Brain Research Implications for Learning

Setting the Climate FOR Thinking

Nonverbal signals	Room Arrangement
DOVE Guidelines	Sensory Input
Wait-Time	Language Stimulation
People Search	Learning Centers
Blocks of Time	Three-story Intellect
Fat/Skinny Questions	
Emotional Intelligence	
Moral Intelligence	
Response Strategies	
Socratic Dialogue	
Student Groupings	
Year-Round Schools	
Equipment and Supplies	

Teaching the Skills OF Thinking

Collaborative
Thinking
Technological
Performance
Problem Making
Communication
Research
Word Processing
Direct Instruction
Developmental Path
Embedded Application
Peak Performance
FLOW

Structuring the Interaction WITH Thinking

Case Studies	Cooperative Structures
Projects	Graphic Organizers
Themes	Multiple Intelligences
Verbal	Integrated Curriculum
Logical	Naturalist
Bodily	
Musical	
Spatial	
Interpersonal	
Intrapersonal	
Problem-Based Learning	

Thinking ABOUT Thinking

Personal Relevance
Construct Knowledge
Deep Understanding
Generalizations
Cognitive Mediation
Metacognitive Reflection
Application
Transfer
Traditional Assessment
Portfolio Assessment
Performance Assessment

Key Elements in Applying Brian Research to Teaching and Learning

Climate:	Techniques that set a safe climate and an enriched environment
Skills:	Processes that foster thinking, communicating, and getting along with others
Interaction:	Approaches that engage the learner actively and experientially
Metacognition:	Strategies for reflection, application, and transfer