

Professional Development Resource

(Available through the MUSD Teacher Development Center)

Revised 8/12/04

Topic: This book attempts to make clear how to effectively match teaching practice to brain functioning. It provides an understanding of brain functions, it explores how the brain encodes, manipulates, and stores information and devotes several chapters to practical classroom applications and brain-compatible teaching strategies.

Type of Material: Book

Title: BRAIN MATTERS – TRANSLATING REASEARC INTO CLASSROOM PRACTICE

Author: Patricia Wolfe

Publisher: Association for Supervision and Curriculum Development

Date of Publication: 2001

Contents:

Part I: The Structure and Function of the Human Brain

1. Opening the Black box of the Brain
2. Brain Anatomy-A Short Course: Neurons
3. Brain Anatomy- A Short Course: The Cortex
4. How Neurons Communicate

Part II: From Sensory Input to Information Storage

1. Sensory Memory: Getting Information into the Brain
2. Working Memory: the Conscious Processing of Information
3. Long term Memory: The Brain's Storage System

Part III: Matching Instruction to How the Brain Learns Best

1. Making Curriculum Meaningful Through Problems, Projects, and Simulations
2. Using the Visual and Auditory Sense to Enhance Learning
3. A Toolkit of Brain-Compatible Strategies