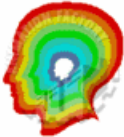


W

The Brain Gym a Scan or Scam



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Me!

- o Family, Taught 22 yrs. at JCES
Working on Special Ed. Masters
"2010"




The Brain

- o By the end of the lesson you will have a better understanding of brain based learning theory.
- o Understand brain exercise can affect learning.
- o Know appropriate times to use brain exercise.


Lesson from a Tree Trunk

- We all may look alike on the outside, but on the inside is what matters!



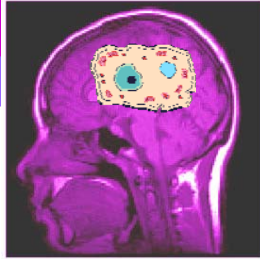
Terms

- Brain Based Learning-The understanding of how the brain was designed and how we can enhance our student's learning through differential teaching strategies.
- Brain Gym – stimulating learning through movement, release, or relaxing students.
- Multiple Intelligences-Gardner's theory that we have nine different styles in which we may learn.



**What changes our brains?
Outside effects and inside development.**

The Brain Facts



- weighs 1300 - 1400 g
- "the most complex living structure on the universe" Society for Neuroscience
- makes us who we are
- made up of about 100 billion neurons
- Neurons - axon sends message synapse receives message
- Divided in two parts left brain and right brain

How do neurons connect to make learning/memory take place?
Demo-Peanut butter and Jelly
Answer: Neurons must fire together!

Different Types of Brains

SPECT



Normal

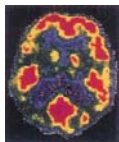


ADD-5% of children



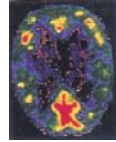
Depression

The medical field just released a report that states obese people have thinner brain tissues?



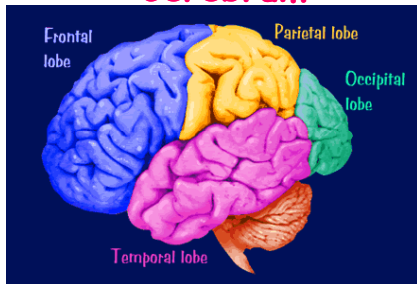
Normal

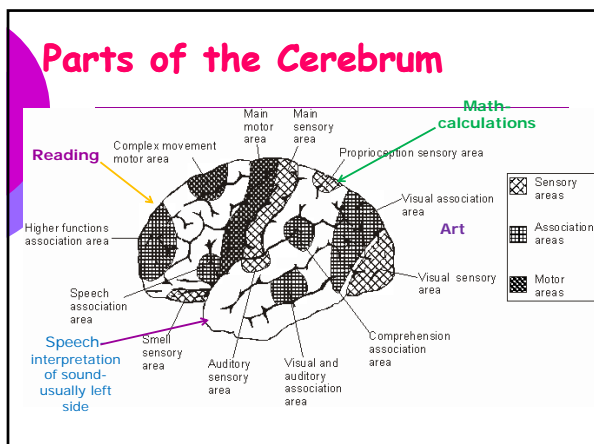
PET



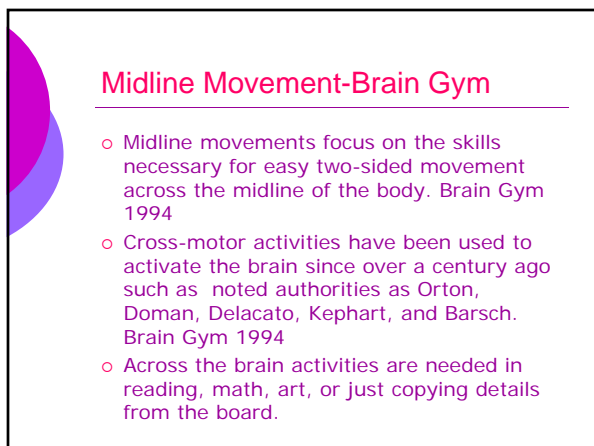
Murderer

Identifying Parts of the Cerebrum





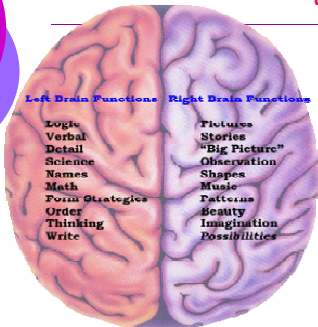




Multiple Intelligences Theory

- o Verbal-Linguistic
- o Logical-Mathematical
- o Spatial (art)
- o Musical
- o Interpersonal (group)
- o Bodily-Kinesthetic
- o Naturalistic
- o Existential (reflections/thinking)

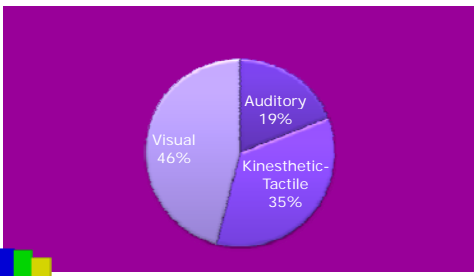
Multiple Intelligences and the Brain




Left Brain Functions	Right Brain Functions
Logic	Pictures
Verbal	Stories
Detail	"Big Picture"
Science	Observation
Names	Shapes
Math	Music
Form	Tactile
Order	Beauty
Thinking	Imagination
Write	Possibilities

We have a preference, that is we tend to favor one or two senses over the others when gathering information to deal with complex learning situations.
Sousa, 2001

Sensory Preferences



Sensory Preference	Percentage
Visual	46%
Kinesthetic-Tactile	35%
Auditory	19%




The Brain and Learning

- o The brain is two parts and many theories to inform us on how we should be teaching.

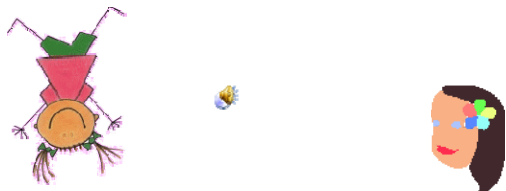
What is a teacher to do?

- o Mix and Match what works for you.




Brain Gym Purpose

- o Early detection of problems-
Ex. "Walley Oucha" Dr. Jean




Brain Gym...contiued

- o Can promote learning though brain stimulation.
Ex. "I've Got the Whole Globe in my Hands" drjean.org



Brain Gym...continued


- o Give the brain a break
- Ex. "Tooty Tot" drjean.org



Brain Brakes for Upper Ele.

- o After 15-20 min. of teaching have the students repeat 3 facts they have learned to a partner.
- o After teaching a lesson give a pop quiz to do with a partner. Each student must sign their name to the question they answered.
- o Have a fun warm-up – Insect song- drjean.org
- o Rehearse facts like a cheer

Teacher-An insect has how many legs?
I say legs.....you (students) say 6
legs.....six
legs.....six




Thoughts on Brain Based Teaching

- o Not all methods are valid and reliable.
- o Should we base all our teaching on brain based learning or multiple intelligences?
- o It costs time/energy to teach to every learning style.
- o Add were you can!

Conclusion



- Do we know everything about the brain and learning ?
- There is a paucity of research that is need in this research topic.
- If the human brain was simple enough for us to understand, we'd be so simple we couldn't.



What Did You Learn

- Can you tell the difference between a normal brain and that of one with learning problems?
- Does brain development influence learning and how you teach?
- Do you know two pros/cons to brain based learning and teaching?

How will this change your teaching style?

Resources


"Brain Gym Teacher" Edition Revised" Published by Brain Gym®, 1994

"Brain-Based Strategies to Reach Every Learner", Author J. Diane Connell, Published by Scholastic

"How the Special Needs Brain Learns", Author David A. Sousa, Published by Corwin Press, Inc., 2001

Different Brains, Different Learners-How to Reach the Hard to Reach, Author Eric Jensen, Corwin Press, Inc., 2000

Songs: By Dr. Jean Fellmen- drjean.org



**THANK YOU FOR LISTENING!
DON'T FORGET TO FILL OUT
THE EVALUATION FORM !**

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