



Global Thinking:

Parallel Processing in Education

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INTELLIGENCE I

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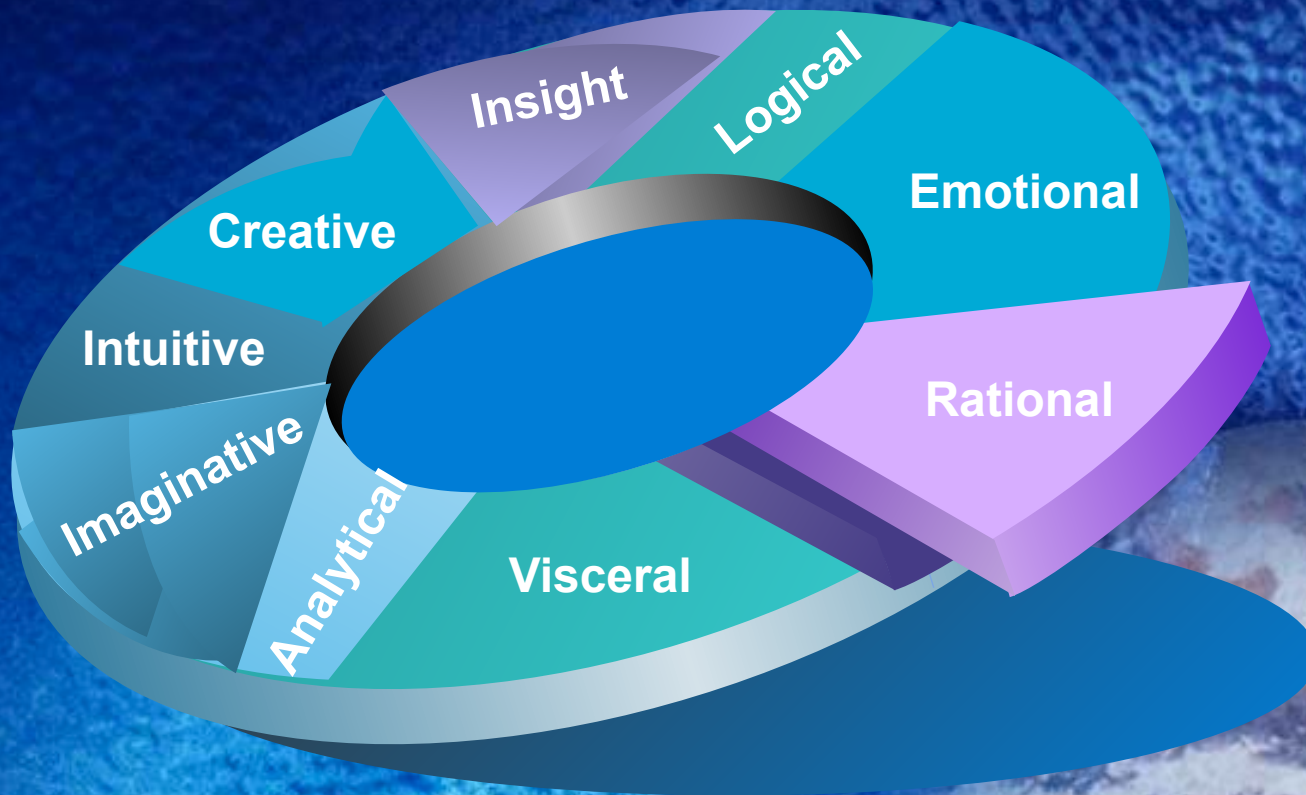


INTELLIGENCE II

- The Nativists versus Empiricist Argument Regarding Intelligence: Is Intelligence hereditary or due to the environment?

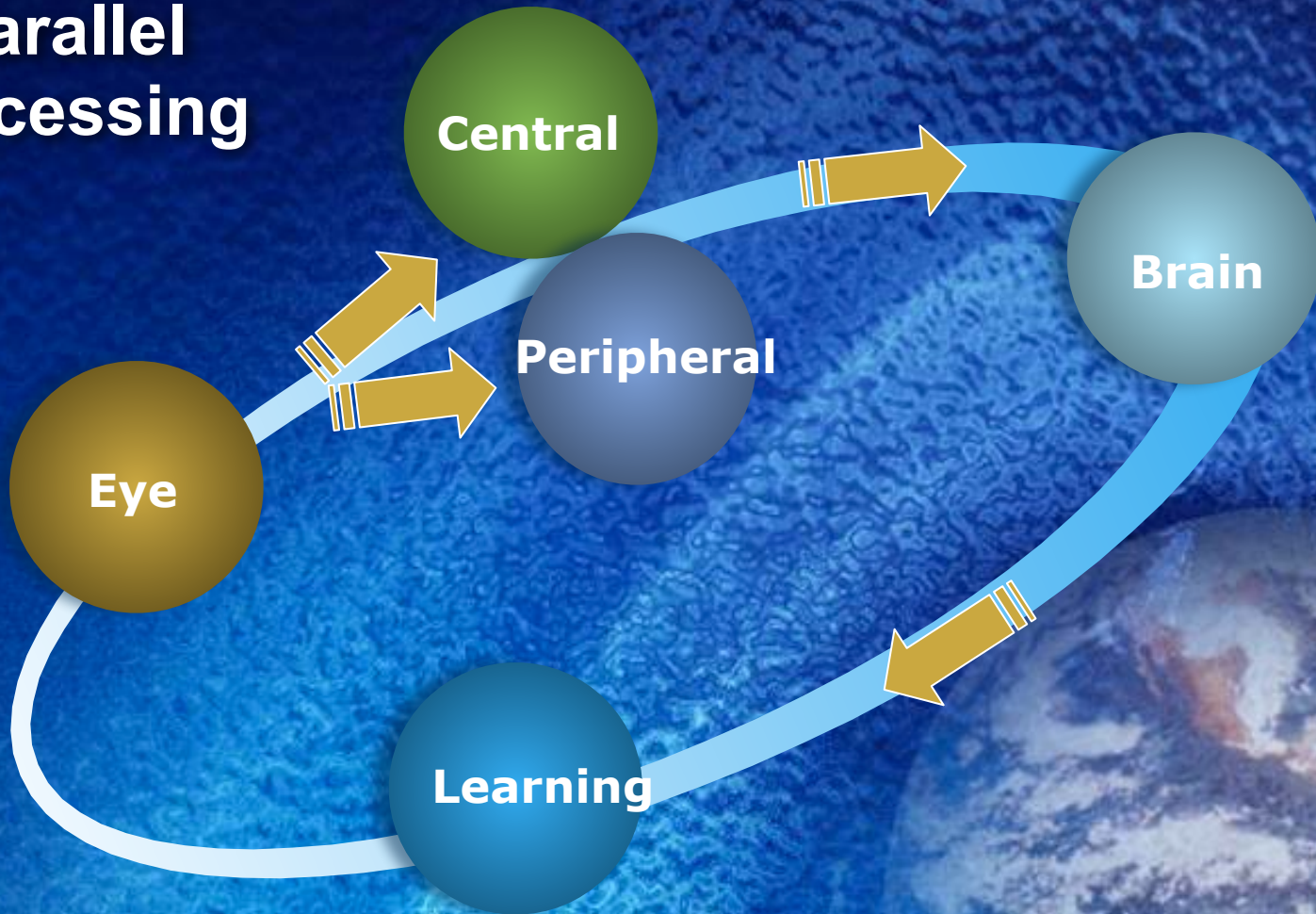


Multiple Intelligence



Learning Cycle Diagram

**Parallel
Processing**



Progress Diagram

Phase 1

Phase 2

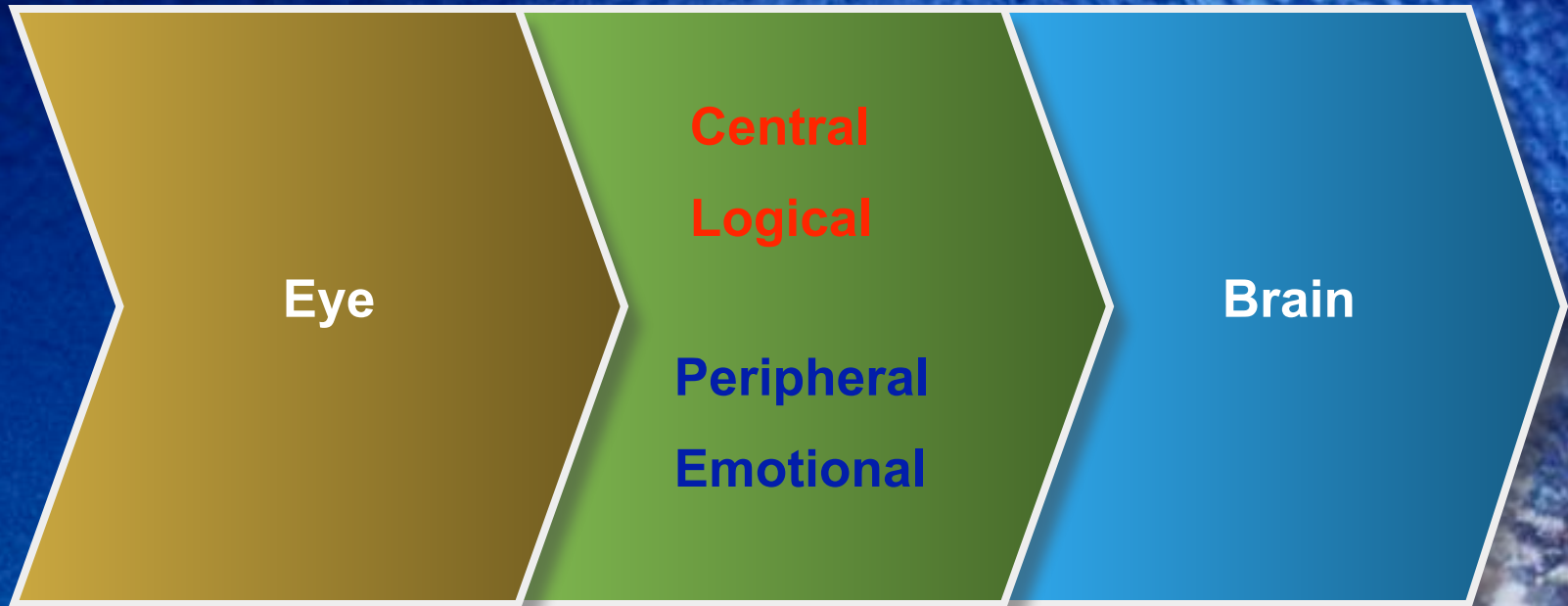
Phase 3

Eye

Central
Logical

Peripheral
Emotional

Brain



Brain Waves



IN THE ZONE

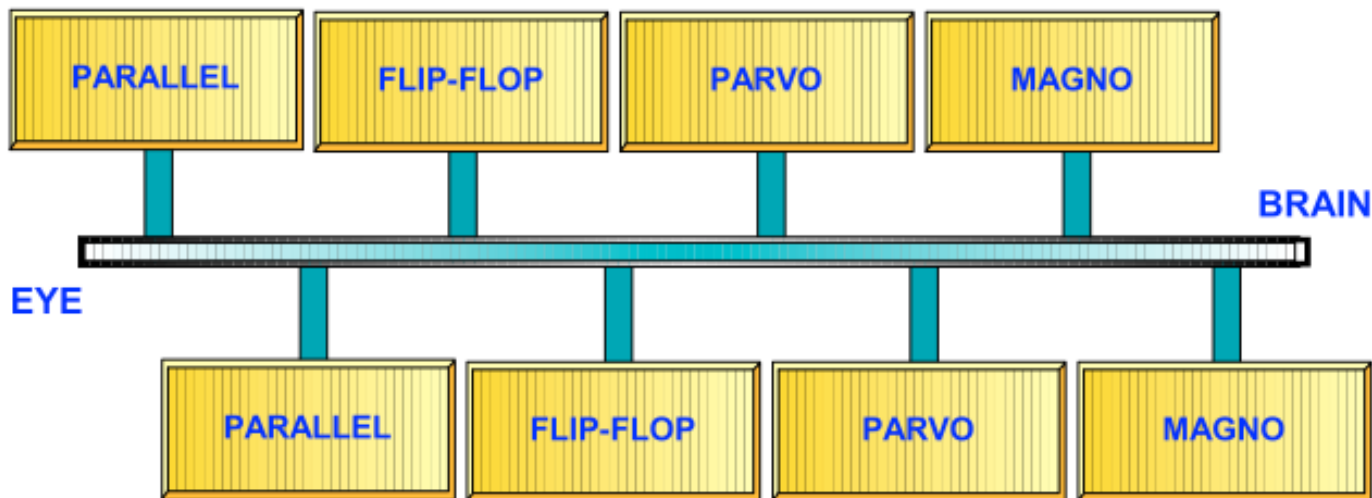
- The “In the Zone” concentration of the athlete is the same skill used by successful business executives to multi-task, and by academicians to speed read and display remarkable photographic memories.
- This type of concentration is accomplished by Parallel Processing Central and Peripheral Information.



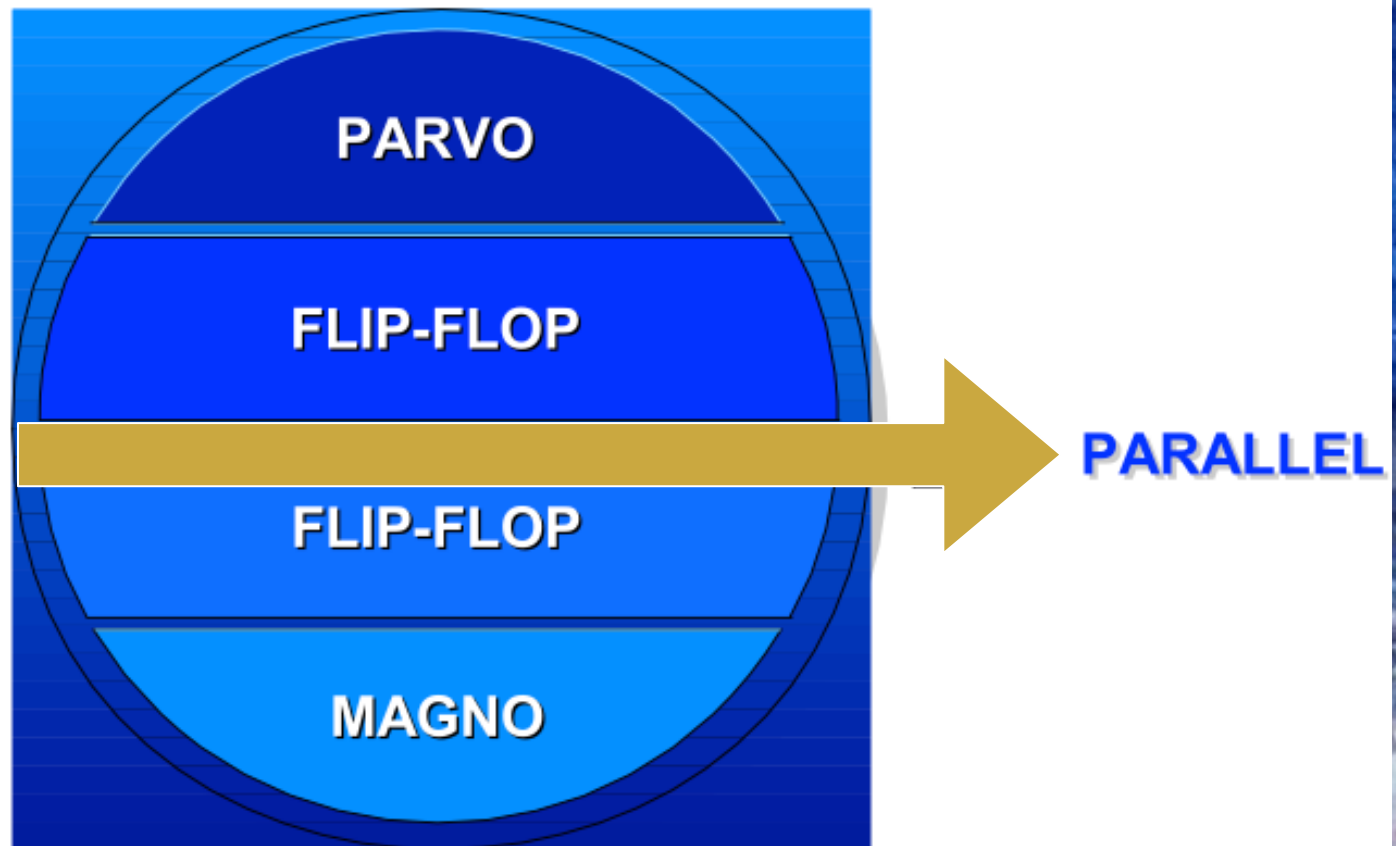
MODEL OF INFORMATION PROCESSING

- ▲ PARALLEL
- ▲ FLIP-FLOP
- ▲ PARVO
- ▲ MAGNO

THE VISION SYSTEM: EYE-BRAIN RELATIONSHIP



INFORMATION PROCESSING: GRAPHIC MODEL



INFORMATIONAL SPACE

A **LINE**, A **PLANE** AND A **SPHERE** ALL HAVE AN INFINITE SET OF POINTS. HOWEVER, AS WE CAN SEE FROM THE NEXT SCREEN, THERE ARE DIFFERENT TYPES OF INFINITE SETS. FOR EXAMPE:

A **LINE** AND A **PLANE** HAVE A **CONVERGENT** SET OF INFINITE POINTS, WHILE A **SPHERE** HAS A **DIVERGENT** SET OF INFINITE POINTS.

INFORMATIONAL SPACE

 **LINE: A Convergent Series**

$$\sum_{n=1}^{\infty} z_n = S$$

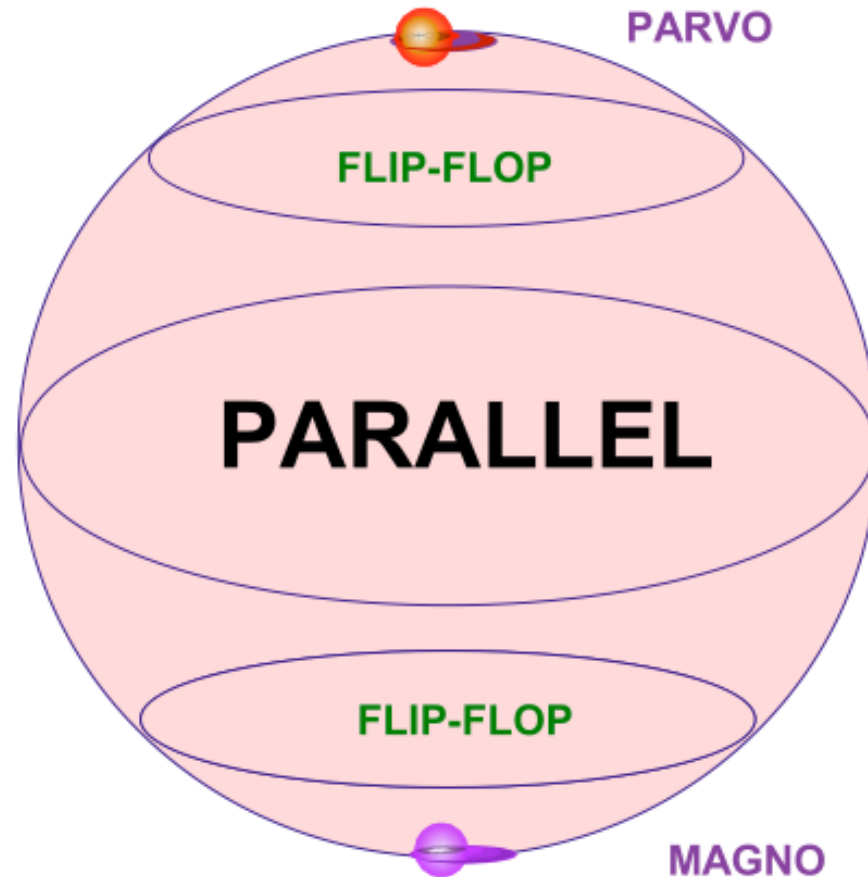
 **PLANE: A Convergent Series**

$$\sum_{n=1}^{\infty} z_n = S$$

 **SPHERE: A Divergent Series**

$$\sum_{n=1}^{\infty} z_n \neq S$$

3-D MODEL OF INFORMATION PROCESSING



3-D MODEL OF INFORMATION PROCESSING

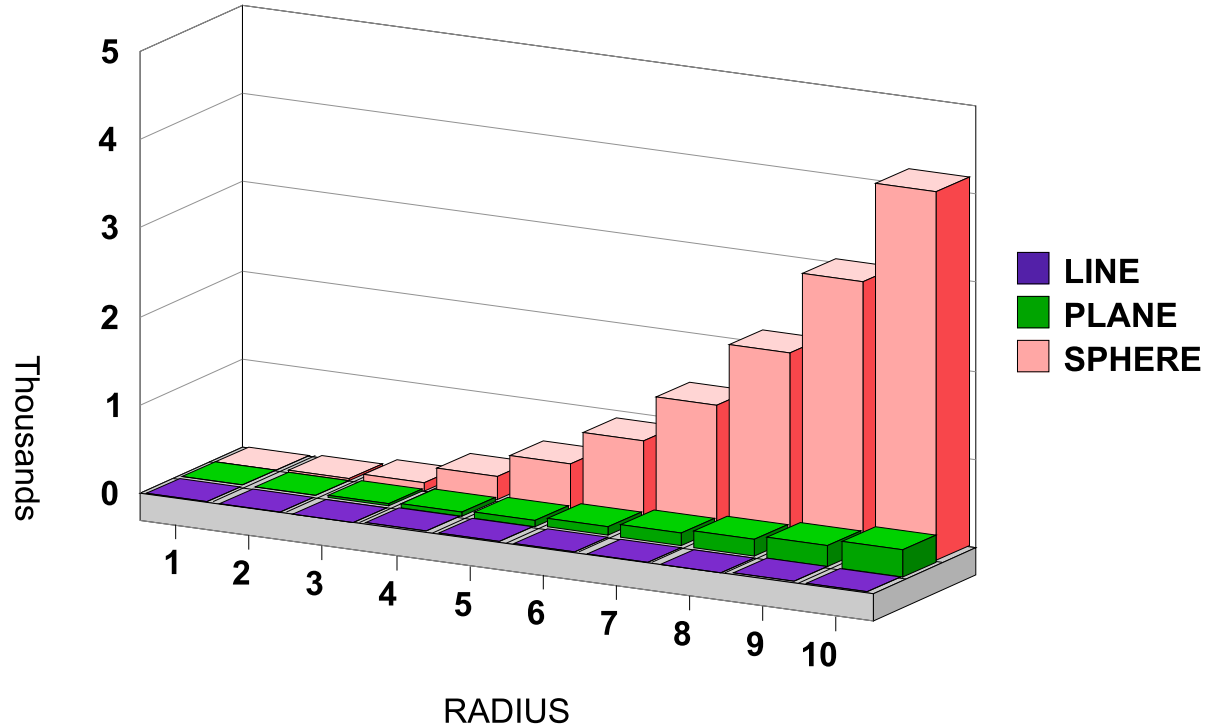
LINE: A LINE IS ONE-DIMENSIONAL, AND IS DESIGNATED BY ITS **LENGTH**.

PLANE: A PLANE IS TWO-DIMENSIONAL AND FOR A CIRCULAR PLANE THE FORMULA FOR THE AREA IS: πr^2

SPHERE: A SPHERE IS THREE-DIMENSIONAL AND THE FORMULA FOR THE VOLUME IS: $\frac{4}{3}\pi r^3$

Parallel Processing

INFORMATION RATIOS



Hypothalamus

MEMORY	BODY FLUID LEVELS
THERMAL	RETINA
PITUITARY	EYE FOCUSING
BLOOD PRESSURE	SLEEP
GROWTH	BLOOD SUGAR LEVEL
POSTURE	EMOTIONS
SEXUAL FUNCTIONS	BRAIN WAVE SYMMETRY
HUNGER	IMMUNE SYSTEM
THIRST	NEUROTRANSMITTERS

Motivation

- How to reach a child?
- Educate the child according to his way
- Emotional Engagement
- Cognitive Engagement
- Tell a story
- Have the child tell a story



EDUCATIONAL MODEL

INPUT AND ADJUSTMENT

EMOTION

ANALYTICAL

INSIGHT

WISDOM

IN THE ZONE

- Teaches the balance between input and adjustment.
- Provides a dialog with the nervous system.
- Redirect stress into productive energy.
- Improves vision, concentration, and attention.
- Unlocks patterns of failure.

Educate the child according ...

- Some children are central processors, while others are peripheral processors. Younger children tend to be more peripheral than central. If a child is not learning, perhaps the mode of instruction does not fit the child's mode of processing.

For More Information

Joseph N. Trachtman, O.D., Ph.D.

Elite Performance and Learning Center, PS

1020 NE 63rd Street, #101

Seattle, WA 98115

206-412-5985

tracht@accommotrac.com

www.accommotrac.com