

Brain Facts

HOW MUCH DO YOU KNOW ABOUT YOUR AMAZING BRAIN?

Left Brain

CONTROLS THE RIGHT SIDE OF THE BODY

- Logic
- Reasoning
- Math/Science
- Spoken/Written Language
- Analytical Skills
- Objectivity

Neurons

CONTAINS 100 BILLION NEURONS

Neurons begin forming 4 weeks after conception and make the most connections between the ages of 3-12.

Right Brain

CONTROLS THE LEFT SIDE OF THE BODY

- 3D Shapes
- Music/Art
- Intuition
- Creativity
- Emotions

Energy

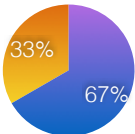
CONSUMES MORE ENERGY THAN ANY OTHER ORGAN

The brain uses enough energy to power a 25-watt light bulb. One-third of that energy is spent on cell maintenance.



ENERGY ALLOCATION

- Cell Signals
- Cell Maintenance



3 POUNDS
6 PARTS



- Parietal - intelligence, language, reading, senses, time, spatial orientation
- Frontal - executive function, behavior/impulses, personality, planning
- Temporal - memory, understanding, hearing, speech, visual recognition
- Cerebellum - balance, coordination, gross/fine motor skills, fear/pleasure
- Occipital - visual processing, colors, dreams
- Brain Stem - involuntary functions, heart beat, breathing, alarm center

ON AVERAGE, THE NUMBER OF TIMES EACH NEURON FIRES PER SECOND

200

13

THE NUMBER OF MILLISECONDS IT TAKES THE BRAIN TO PROCESS VISUAL IMAGES

50%



We use more than 50% of our brain to process visual images.

60K



We process visual information 60,000 times faster than text.

90%



We forget 90% of the data we process in a week.

6

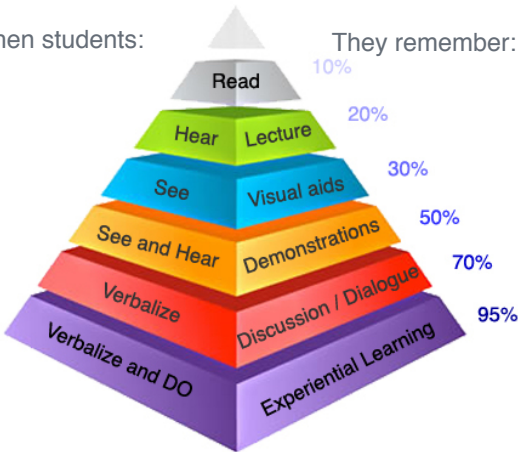


There are six key elements of whole-brain learning.

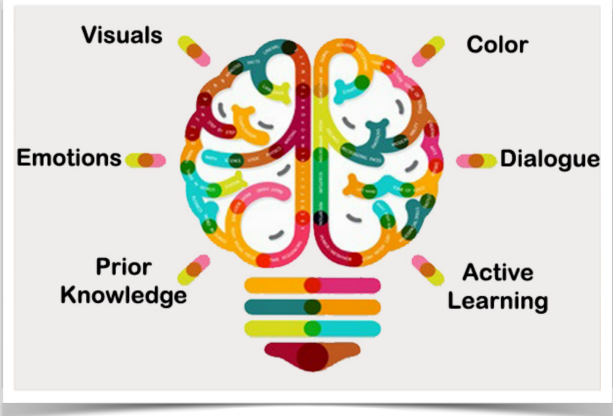
THE LEARNING PYRAMID

When students:

They remember:



Adding visual material substantially increases retention because the visual memory system in the brain is designed for both storage and recall. With 70% of our sensory receptors in our eyes, our brains are wired to make sense of visual information. Recent brain-based research now proves that when we engage multiple parts of the brain by seeing, hearing, verbalizing and creating meaning through experiential opportunities, we are better able to process, retain, recall, and apply what we learn.



VariQuest
Visual Learning Tools

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