



BrainWare SAFARI: Brain- Building at Its Best

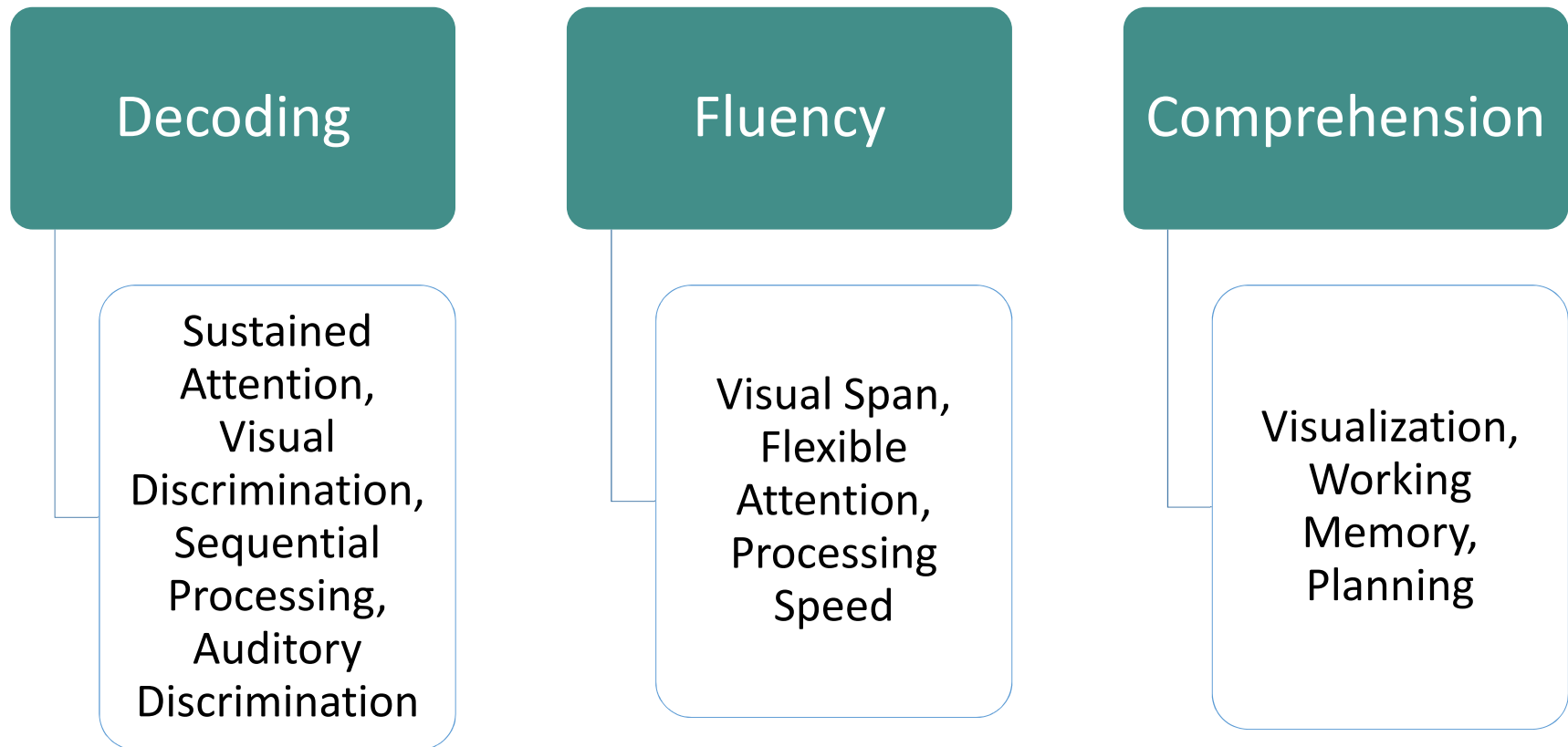
COGNITIVE SKILLS : THE FOUNDATION FOR LEARNING



Impact of Cognitive Development

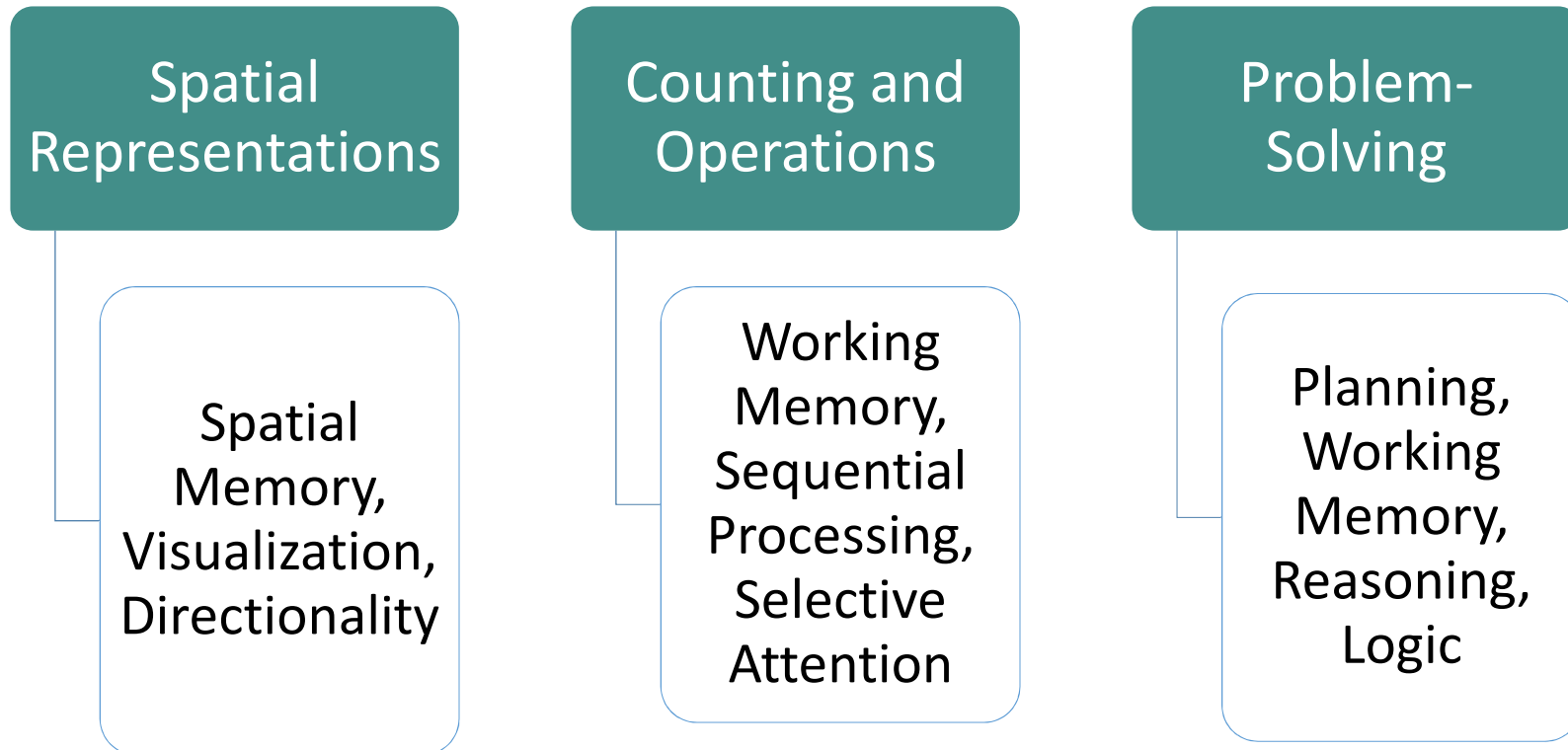


Cognitive Processes Associated with Reading



Anthony & Francis, 2005; Evans, Floyd, McGrew & Leforgee, 2001; Florello et al., 2006; Volker, Lopata, & Cook-Cottone, 2006)

Cognitive Processes Associated with Math



Iguchi, 2008; Geary, 2004; Murphy, Mazzocco, Hanich & Early, 2007

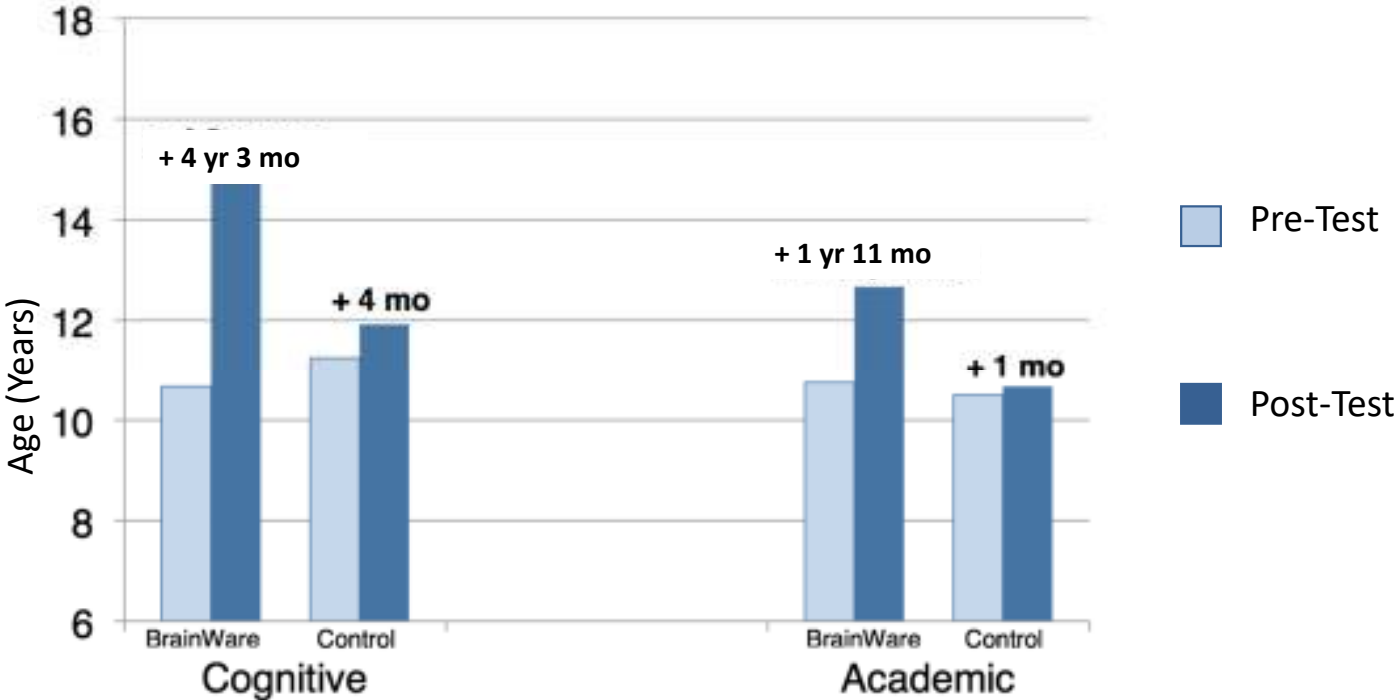
Executive Functions Crossover

| Skill | What it is | Academic Example | Social/Emotional Example |
|------------------------------|--|---|--|
| Working Memory | The ability to hold information in our mind while we think about it. | Holding multiple aspects of a problem in mind and keeping track of where we are in a multi-step solution. | Holding someone else's point of view in mind, comparing and contrasting it to other points of view, considering alternative ways to respond. |
| Inhibitory Control | The ability to suppress a thought or idea, to refrain from doing something we otherwise would. | Not leaping to the first possible solution but questioning assumptions and considering other alternatives. | Not blowing out the candles on someone else's birthday cake. Not blurting out "That's stupid," when you disagree. Also, deferring gratification (longer term). |
| Cognitive Flexibility | The ability to change our mindset when the rules of the world around us change. | When our original approach to a problem doesn't work, finding other approaches. Looking at problems from different points of view and being able to change direction on the basis of new information. | Looking at personal experiences from different points of view and being able to change direction on the basis of new information. |

BrainWare SAFARI

- Software that develops 41 cognitive skills critical for learning
 - Comprehensive
 - Integrated
- Grounded in neuroscience and derived from clinical therapy best practices
- Delivered in an engaging digital game-based format
- Recommended usage:
 - 10-14 weeks
 - 30-45 minutes
 - 3-5 times/week
- For ages 6 to 106

BrainWare SAFARI – Published Research



Students 1st through 7th Grades – Range of Abilities, Woodcock Johnson III

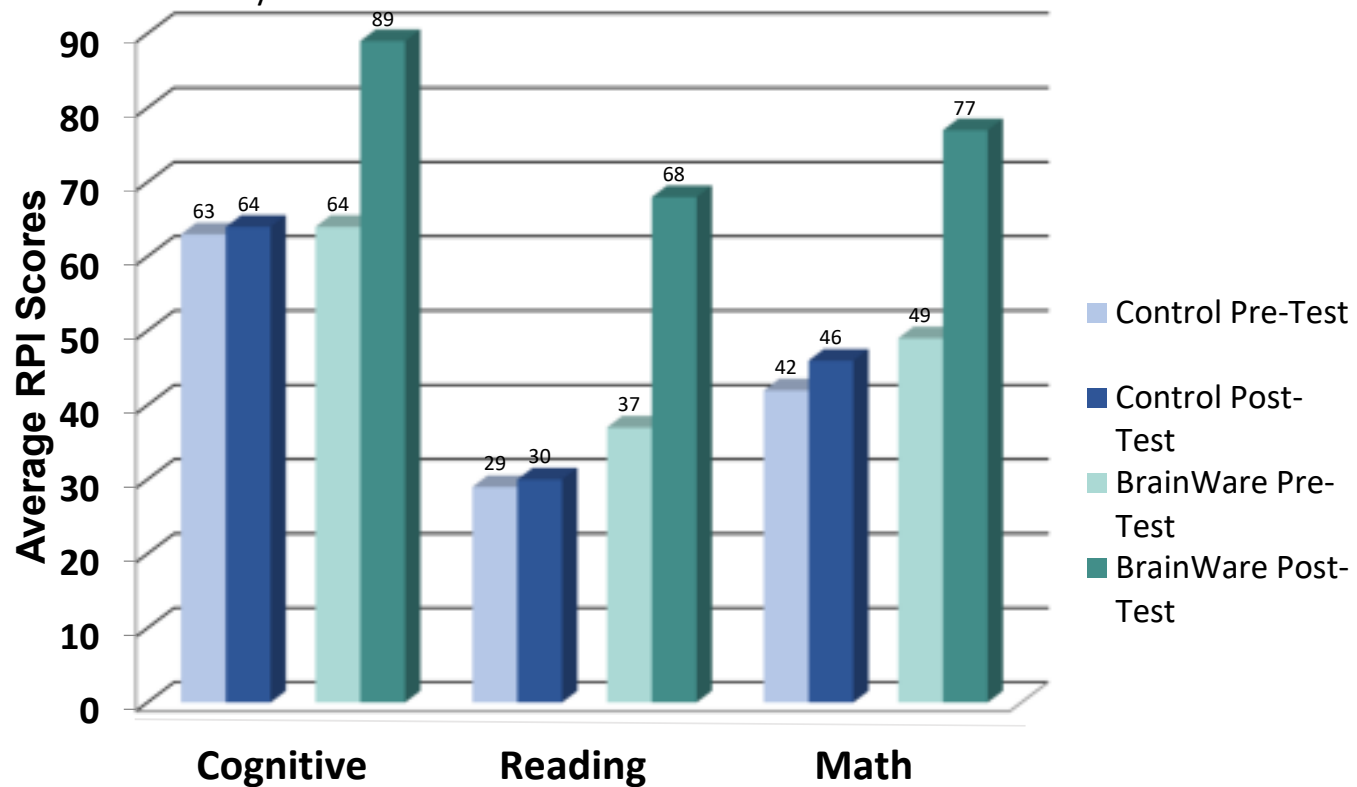
“A Study of the Effectiveness of Cognitive Skill Therapy Delivered in a Video-Game Format” Helms, D. and Sawtelle, S.M., Optometry & Vision Development, Volume 38, Number 1, 2007.



BrainWare SAFARI Published Research – Students with Specific Learning Disabilities (SLD)

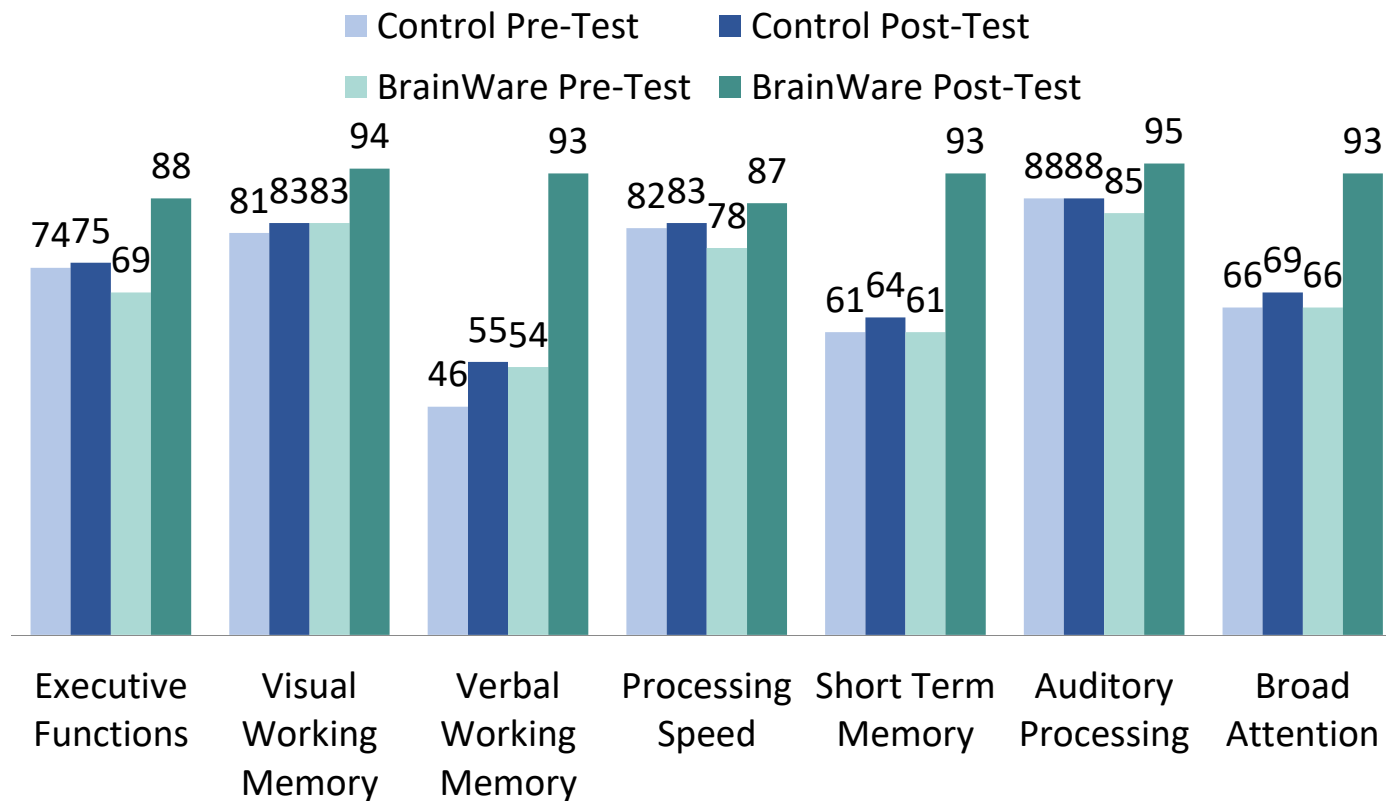
90% is Expected RPI of Normally Developing Student

RPI – Relative Proficiency Index



"Effect of Neuroscience-Based Cognitive Skill Training on Growth of Cognitive Deficits Associated with Learning Disabilities ..." Sarah Abitbol Avtzon. *Learning Disabilities: A Multidisciplinary Journal*. 2012

Growth in Proficiency Levels by Cognitive Process – Students with SLD – Published Research with BrainWare SAFARI



"Effect of Neuroscience-Based Cognitive Skill Training on Growth of Cognitive Deficits Associated with Learning Disabilities ..." Sarah Abitbol Avtzon. *Learning Disabilities: A Multidisciplinary Journal*. 2012

Demonstration


Criteria for an Effective Cognitive Training Program

- **Evidence that it works.**
 - Where does the methodology come from? Is it speculative or has it worked?
 - Is there research that shows that the program improves cognitive skills? What skills and how much improvement has been seen?
 - Is there research that shows that the cognitive improvement translates to academic and real-life performance?
- **Progressive challenge.**
- **Cross-Training.**
- **Feedback and coaching.**
- **Engagement.**
- **Protocols to achieve specific goals.**

The 3 Big Secrets

- This is the key to growth mindset. The brain can change!
- It's all about fidelity – a 40-hour investment.
- Everything else you do will be more effective – a force multiplier effect.

Questions?



Let's stay
connected

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