

Our Vision: Every Child Becomes a Reader

- Team of experts in brain science, language development, child psychology, reading development, children with special needs, and research
- Grounded by many years of hands-on experience in early childhood settings and with individual children and families
- Highly successful in creating tools and professional development that combine the best science with practical materials and concepts that ANY early childhood educator can use

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Our Focus is on Children 0-8

- Language and literacy foundation is built from birth, if not before
- 40% of entering kindergartners are behind, and half are behind by 2 years or more
- Science has proven what it takes for nearly every child to become a reader
- Nemours is lending expertise as a health imperative

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- Reading aloud to infants helps stimulate brain development yet only half of infants are routinely read to by their families

 By age 3, a 30 million word gap is evident among children of diverse home environments

 40% of children enterior ##

- Low literacy adds \$238 billion per year to U. S. health care costs
- Adults with low literacy are 3 times more likely to have an adverse health outcome than adults with higher literacy skills (Weiss & Palmer, 2004)
- For non-pregnant adult patients on Medicaid, those with <3rd grade reading skills had Medicaid charges >3.5 times higher than those with better reading skills (Weiss et al., 1992)



What Causes Reading Failure?







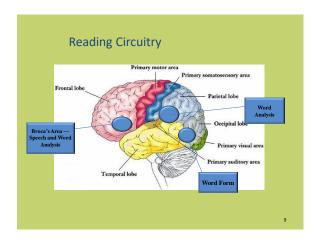
Reading Is An Unnatural Act!

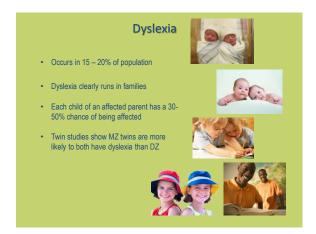
- Humans are genetically and neurologically hard-wired for speech
- Not true for reading, which must be learned through conscious effort
- Reading makes high demand on brain's integration capacity



Learning to Read

Word Recognition
Print Awareness
Phonological Awareness
Decoding
Sight Recognition
Language Comprehension
Vocabulary
Verbal Reasoning
Language Structures









Big Idea 1

64% of America's 4th graders score "below proficient in reading (Nation's Report Card, 2015)

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Why Is This Important for Early Childhood Providers?

- The foundation for reading is built starting from BIRTH
- It is built word by word, song by song, book by book, through daily strategies and routines
- Your have the power to change these statistics

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What Can You Do About It?

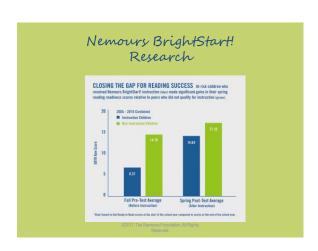
- Know this fact and why it happens
- Understand how reading skill development happens
- Be intentional every day in your programs
- Advocate for children in your communities

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Big Idea 3

By age 3, children from a language rich environment know about 1,100 words. Their peers from impoverished environments know only about 500.

http://www.zerotothree.org/policy/images/zt tword-gap.jpg)
Nemours BrightStart!



Why Is This Important for Early Childhood Providers?

- Some of your children are likely to have lower vocabulary knowledge
- You have a great opportunity to build vocabulary
- Young brains are BUILT to learn language

Nemours BrightStart!



What Can You Do About It?

- Talk, read and sing
- Use a variety of words (nouns, verbs, adjectives, adverbs)
- Explain how words relate to one another
- Provide lots of experiences and opportunities that encourage vocabulary Nemous Brightstart!



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Big Idea 5

700-1,000 new neural connections form each second in a baby's brain.

(Harvard University, Cambridge, MA, Center for the Developing Child. Brain architecture. Retrieved November 30, 2015, from http://developingchild.harvard.edu/science/keyconcepts/brain-architecture/).



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Why Is This Important for Early Childhood Providers?

- You work with children and families starting from infancy
- You have as much opportunity to influence brain development as anyone
- If you don't know this fact, you will miss critical opportunities to enhance brain development





What Should You Do About It?

Recognize the opportunity and take advantage

Share key facts and ideas with parents

Learn to spot babies' communication cues

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Lessons from Brain Science

- What gets "fired" gets "wired" (Use it or lose it)
- Movement helps learning and memory
- Multi-sensory learning is great for everyone
- Emotions impact learning remove anything punitive or threatening, promote safe and supportive environment

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Lessons from Brain Science

- The brain naturally seeks patterns and compares "new" to "existing" to determine if it "fits"
- Promote general and specific curiosity
- Encourage making predictions
- Highlight key features of what you want to teach

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Lessons from Brain Science

- Use "parentese" freely with infants (highlights salient, distinguishing language and speech features)
- Color code, vary size or texture, for instructional target (e.g., letter of the week)
- Provide developmentally appropriate activities and solvable challenges to build problemsolving and resilience

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Lessons From Brain Science

- Humans are inherently wired for sociall contextualized learning and imitation
- Sleep is critical, for brain rest, and consolidation of experiences and new learning

(From Sousa, D. A. (2010). Mind, brain and education. Bloomington, IN: Solution Tree Press)

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References

- Bailet, L. L., Repper, K. K., Murphy, S. P., Piasta, S. B., & Zettler-Greeley, C. M. (2013). Early literacy intervention for
 prekindergarteners at risk for reading failure: Years two and three of a multi-year study. *Journal of Learning Disabilities*, 45(2), 13
- Bailet, L. L., Repper, K. K., Plasta, S. B., & Murphy, S. P. (2009). Early literacy intervention for prekindergarteners at risk for reading
- Bailet, L. L., Zettler-Greeley, C. M., & Lewis, K. (2017). Psychometric profile of an experimental emergent literacy screener for preschoolers. School Psychology Review, http://dx.doi.org/10.1037/spa0000222.
- Lewis, K., Zettler-Greeley, C., & Bailet, L. L. (2017). The influence of parental beliefs on prekindergarten children's literacy skills Manuscript in preparation.
- More D. Hart C. McCon D. & DiSchola C. (1997). Houlib Status Of Elevate Mullior Database Discount And Houlib Status Associa
- Weiss BD, Palmer R. Relationship between health care costs and very low literacy skills in a medically needy and indigent Medicaid population. J Am Board Error Bend 2000/d17/M 47.
- Zettler-Greeley, C. M., Bailet, L. L., Murphy, S., DeLucca, T., & Branum-Martin, L. (2016). Building emergent literacy skills in prekindergarten children at-risk for later reading failure: Influence of intervention on child outcomes. Manuscript submitted fo
- Zettler-Greeley, C., Schierle, C., Raimondo, B., & Bailet, L. (in preparation). Empowering parents to enhance emergent literacy sk
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