## SOUNSFORLITE RACY Language and Literacy Develop Hand in Hand



## EVERY CHILD WANTS TO READ AND WRITE

building a literate nation JULY 2010

White Paper

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Every child wants to read. Every child wants to write. The handprint on the cave wall was only the beginning of the human story. That primordial urge has not dwindled, yet millions remain illiterate. What can we do to ensure that all can leave their message and that their message can be read?

As rich in texture, talent, and opportunity as we are in the United States, we are not achieving success building a nation of readers. Current national data confirms that almost 38% of our fourth grade students across all socioeconomic levels do not have basic reading skills. Further data show that if a child is not reading at grade level by the third grade, he or she probably will never read at grade level. Enormous investments in time, resources, and intellect have been directed toward a solution. However, the problem persists, exacerbated by a growing immigrant population of non-English speakers and a challenging economic environment. How can we reach children in a way and at a time that can help build a literate nation? One avenue is through Head Start, Early Head Start, and other high quality early childhood programs. Another is through public library systems offering programs for infants, young children, and parents as well as outreach programs for community childcare centers. Working together we can help children learn to read and write.



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## SOUNS FOR LITERACY Language and Literacy Develop Hand in Hand

If you do not know letter sounds, you cannot sound out words. If you cannot sound out words, you cannot read. If you cannot read, you will become another statistic in the list of drop outs or broken dreams.

Brain research confirms that infants and toddlers have a natural window during which the tools of printed language are most easily learned. It is also known that the hand and brain work to-gether to learn. Therefore, learning letter-sound associations early and through informal, hands-on activities is the natural and timely way to make a measurable difference in reading readiness for preschool children.

Further research indicates the best predictor of end-of-kindergarten literacy skill is beginningof-kindergarten literacy skill (Walpole, Chow, & Justice, 2004). Clearly, it is critical to provide literacy tools for infants and toddlers in this window of learning to discover, interact with, and explore through play. The right information (letter-sound knowledge) at the right time (birth to three years), and in the right way (kinesthetically and incidentally) makes a powerful difference in building literacy skills.

The wealth of material on how the brain learns offers the promise of simple, effective, and measurable new strategies for the work of building literacy. One such strategy is demonstrated through Souns, a literacy program designed primarily for infants and toddlers. Souns is an evidence-based program demonstrating that early language skills and early literacy skills are complementary and should be experienced hand in hand.

In building a nation of readers inclusive of our immigrant population, focusing on letter-sound associations makes a difference. For all the languages that use the Latin alphabet the majority of the letters represent the same sounds. An /m/ is the same sound in Spanish, English, or Zulu. The Souns program is based solely on letter-sound associations, the first step to literacy and an effective bridge between languages.



Souns places specifically designed and sequenced letters of the Latin alphabet into the hands of young children at their most language and shape-sensitive period, between 5 months and 36 months. The hand reaches out to hold, play with, and explore the letters, providing an alternate way of learning: a concrete, touchable concept of printed language rather than an abstract one. Whether children are typically developing or have special needs, the collaboration between the hand and the brain is fundamental to learning. The work of Maria Montessori and Jean Piaget confirms, what the hand experiences, the mind remembers.

Souns is particularly relevant as children work at sorting out the individual sounds of their language. An isolated sound introduced with the respective symbol dramatizes the uniqueness of each sound, helping a child to distinguish the differences between the letters. Souns is a powerful tool for children with a history of ear infections or learning disabilities such as dyslexia who often have difficulty sorting out sound-symbol relationships. This better arms the child for later success in reading, and writing.

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Letter-sound associations are effortlessly learned by a child if the timing is right, the experience is fun, and the child's hands are involved. Object labeling is central to natural development for the infant and toddler. The child is driven to adapt to his or her environment and needs to know the labels of things to communicate



successfully. Young children have an object "ball" to connect to the word "ball." The Souns program provides objects - letters - for the individual sounds of his or her language. "Ball" is in the eye, the ear, and the hand of the child; the sounds of his or her language are in the eye and ear, and, with Souns, can be in the hand as well. The tools of print in association with their most common sounds placed in the hand become fixed in the mind.

Providing one label for one object allows the child to construct well-defined categories. Lettersounds are the most direct link to reading and writing and are, therefore, the most useful to the child. We speak in sounds. Writing is the recording of sounds, and reading is the decoding of letters into sounds. One label for one object - in this case the most common letter-sound association for each letter - is the best way to ensure success for early reading and writing. As the child demonstrates confidence in individual letter-sounds, new information can be added incrementally, one small piece at a time. Allow each letter-sound association to be fully explored and assimilated before proceeding to new information. Keeping it simple makes a difference.



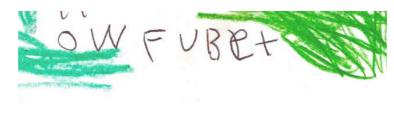
Beginning early and continuing incrementally is the best way to build a foundation of learning for children. Children cannot learn the multiplication tables at the same time they are being introduced to algebra. Their cognitive resources are too busy negotiating the numbers to consider the algebraic concepts. Being strategic with cognitive resources makes a difference in learning to read and write as well, which are the most difficult skills a child will ever learn. Building literacy needs to begin early, progressing slowly and with certainty.

A child who is certain about letter-sound associations will eagerly explore language as he or she moves into the early stages of literacy. For instance, you may hear children stretching out words as they speak. They listen intently to the sequence of sounds as they say the words. Armed with the tools of their language, many young children demonstrate a voracity for writing. By three to four years of age, paper, cardboard, whatever they can find, becomes a promising surface for personal expression. Parallel to this explosion in writing is the beginning stage of reading, the slow sounding out of simple words. This is a natural step of exploration for a child who is confident with letter-sound associations. Writing often comes before reading with Souns - first by manipulating the Souns letters and then with his or her hand. Inventive spelling is what you will see. If you observe the process, you will see that the child is literally recording on paper the sounds she is speaking as she writes. The focus is on expression, not spelling. The more a child listens, writes, is read to, and progresses as an independent reader, the more he will learn about spelling. No error in letter formation or not writing all the sounds in a word is as important as the child's self-confidence.

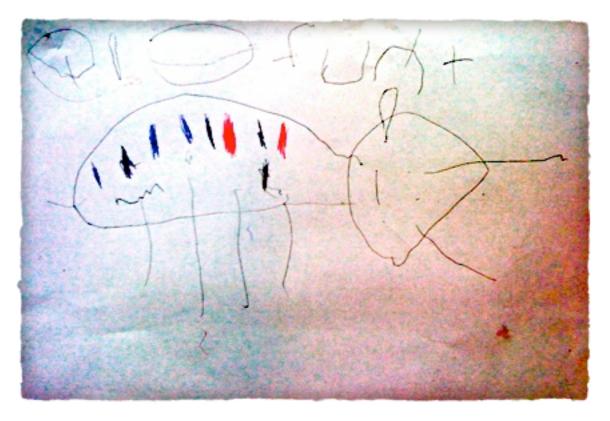


" b a c e d l d r " (back end loader) " b l " (ball) "t u c " (truck) writing with Souns by a 3 year old

Celebrate with, "Yes! Those are sounds in back end loader."

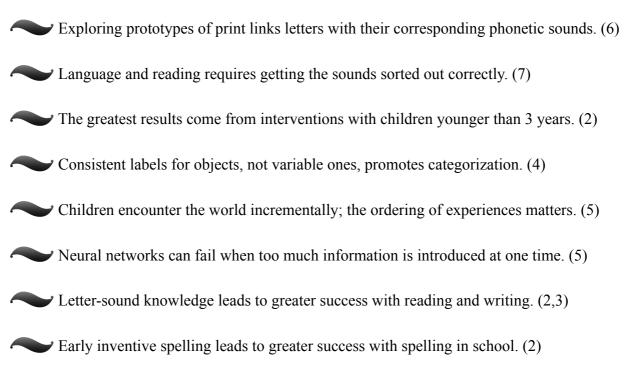


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"e l e f u n t" (elephant) by a 3 year old

The Souns early childhood literacy program is based on research:



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Preliminary data from parent observation surveys in 2009 (n=33) compared to national statistics from the US Department of Education (DOE) in 2000

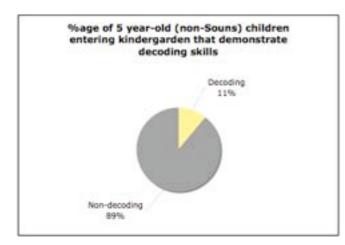
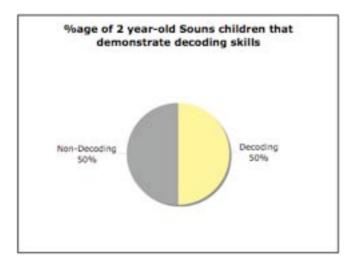
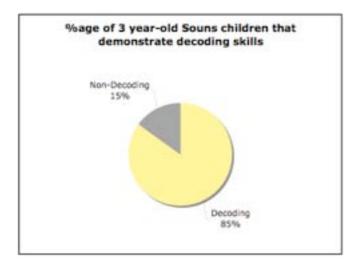


Chart 1. Data from US DOE National Center for Educational Statistics Report in 2000 (1).



**Charts 2 and 3.** Percentage of children age 2 (24-36 months) and age 3 (36-48 months) using Souns for at least 1 month that can decode written words.



Souns users experience success in decoding.

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All proceeds from Souns go to a not-forprofit 501(c)3 organization dedicated to literacy efforts locally and globally. Souns was first introduced to infant/toddler programs in public libraries and childcare centers through the Rotary Club of Peachtree City in Rotary District 6900. The Souns program is in participating centers in Georgia, Illinois, California, Colorado, and Oregon in the United States and, through efforts in Rotary Districts 9350 and 9400, in Cape Town, Knysna, and Pretoria in South Africa. Souns has received major funding from United Way of Metropolitan Atlanta. Souns projects have been supported by

grants from community foundations as well as Rotary Clubs and Districts.

It is important to begin early - the younger we are, the more alike we are.

## References:

1. National Center for Education Statistics. (2000). "Entering Kindergarten: Findings from The Condition of Education." US Department of Education, Office of Educational Research and Improvement. NCES 2001-035.

2. National Early Literacy Panel. (2008). "Developing Early Literacy: A scientific synthesis of early literacy development and implications for intervention." National Center for Family Literacy.

3. Ritchey, K. D., & Speece, D. L. (2006). From letter names to word reading: The nascent role of sublexical fluency. Contemporary Educational Psychology, 31, 301–327.

4. Xu, F. (2007) Sortal concepts, object individuation, and language. Trends in Cognitive Sciences, 11, 400-406.

5. L. Smith and M. Gasser (2005). Artificial Life. <u>Vol. 11, Issues 1-2, pp. 13 - 30</u> - Winter-Spring 2005. <u>Special Issue on Embodied and Situated Cognition</u>.

6. Minogue, J. & Jones, M.G. (2006). Haptics in Education: Exploring an Untapped Sensory Modality. Review of Educational Research, 76 (3), 317-348.

7. Kuhl, P. K. 2002. Born to learn: Language, reading, and the brain of the child. Early Learning Summit for the Northwest Region, Boise, Idaho,

http://www.ed.gov/teachers/how/early/earlylearnsummit02/kuhl.doc.