Enhancing Phonological Awareness, Print Awareness, and Oral Language Skills in Preschool Children

PAIGE C. PULLEN AND LAURA M. JUSTICE

The preschool years are critical to the development of emergent literacy skills that will ensure a smooth transition into formal reading. Phonological awareness, print awareness, and oral language development are three areas associated with emergent literacy that play a crucial role in the acquisition of reading. This article presents an overview of these critical components of emergent literacy. The overview includes a brief review of recent research and provides strategies for developing phonological awareness, print awareness, and oral language in the preschool classroom.
The literacy concepts, knowledge, and skills developed in early childhood are excellent predictors of children’s future success in reading (Adams, 1990; Donaldson, 1978; Snow, Burns, & Griffin, 1998; Whitehurst & Lonigan, 1998). Children who grow up in rich literate environments enter school with an advanced understanding of the concepts underlying reading; some of these children may, in fact, already know how to read before entering school (Adams, 1990; Dickinson & Tabors, 2001). In contrast, recent research in the field of reading has provided compelling evidence that children who start off poorly in reading typically remain poor readers throughout their schooling and beyond (Adams, 1990; Francis, Shaywitz, Stuebing, Shaywitz, & Fletcher, 1996; Juel, 1988; Stanovich, 1986; Torgesen & Burgess, 1998). Stanovich described this phenomenon as the Matthew Effect—the rich get richer and the poor get poorer. If we are to make a difference in the lives of children, we must provide appropriate supports and experiences during the early childhood years to prevent the development of reading difficulties.

A growing body of research has indicated that three emergent literacy factors associated with later reading achievement are (a) phonological awareness, (b) print awareness, and (c) oral language (Whitehurst & Lonigan, 1998). In fact, these areas of emergent literacy represent a significant source of the individual differences in later reading achievement (e.g., Lonigan, Burgess, & Anthony, 2000; Stuart, 1995). This article provides an overview of the research on the relationship of these emergent literacy skills to reading acquisition and describes strategies to enhance the development of each of these areas.

Precursors to Literacy: An Overview

Phonological Awareness

A powerful predictor of reading achievement that has garnered much attention over the last two decades is phonological awareness (e.g., Blachman, 1984, 2000; Bradley & Bryant, 1983; Byrne & Fielding-Barnsley, 1991; for review, see National Reading Panel [NRP], 2000). Phonological awareness refers to an individual’s implicit and explicit sensitivity to the sublexical structure of oral language. Running speech comprises various phonological units ranging in size from large (words, syllables) to small (morphemes, phonemes). Children gradually become aware of the phonological composition of spoken language, with awareness moving from larger to smaller units; the most sophisticated level of phonological awareness represents the ability to analyze oral language at the level of the phoneme (Lane, Pullen, Eisele, & Jordan, 2002; Lonigan et al., 2000). A lack of this awareness may impede an individual’s ability to acquire accurate and fluent word reading skills, and as such, is a primary source of difficulty for children with reading disabilities (Torgesen, Wagner, & Rashotte, 1997). Convergent evidence from both correlational and training studies has shown that phonological awareness is critical to the acquisition of early decoding skills (e.g., Ball & Blachman, 1991; Brady, Fowler, Stone, & Winbury, 1994; Byrne & Fielding-Barnsley, 1991; Rack, Snowling, & Olsen, 1992; Stanovich, 1992; Torgesen & Wagner, 1998).

Although phonological awareness is necessary to the development of skilled decoding, it is not sufficient for acquiring the ability to read words (NRP, 2000; Stanovich, 1992; Tunmer, Herriman, & Nesdale, 1988). In addition to phonological awareness, understanding of the alphabetic principle is necessary for developing word recognition and decoding skills (Chard, Simmons, & Kameenui, 1998); however, the alphabetic principle makes little sense to children with deficits in phonological awareness (Uhry & Shepherd, 1997). The alphabetic principle refers to the systematic relationship between letters and sounds; children must understand that the individual phonemes in words are represented by letters and that those sounds can be analyzed and synthesized in the decoding process (Nicholson, 1997). Children without this understanding are unable to develop adequate word recognition and decoding abilities.

The preschool period is an important source of development for phonological awareness (Ball & Blachman, 1991; Lonigan et al., 2000). In fact, very young preschool children’s performance on phonological awareness tasks has been shown to be a robust predictor of early reading achievement (Blachman, 2000; Bryant, Bradley, Maclean, & Crossland, 1989; Lonigan et al., 2000; for review, see Scarborough, 1998). The development of phonological awareness occurs along a continuum reflecting a transition from shallow to deep levels. In other words, children...
gradually move from shallow to more heightened levels of awareness, with awareness of the phoneme representing the most sophisticated level of skill (Stanovich, 1992). Accordingly, preschool phonological awareness indicators examine children’s performance on shallow tasks, that is, tasks examining sensitivity to large phonological features (e.g., words, syllables).

In the earliest stages of development, phonological awareness is best represented by children’s abilities to produce and comprehend rhymes (Chaney, 1992; Goswami & East, 2000; Maclean, Bryant, & Bradley, 1987) and sort words on the basis of beginning, middle, or ending sounds (Bradley & Bryant, 1983; Lonigan et al., 2000; Maclean et al., 1987). Additional indicators of the advent of phonological awareness include word awareness (understanding that sentences contain words) and syllable awareness (understanding that words comprise syllables). Promoting the development of these foundational aspects of phonological awareness in young children may help avoid “a causal chain of negative effects” initiated by the absence of phonological sensitivity (Stanovich, 1986, p. 364).

**Print Awareness**

In addition to phonological awareness, young children’s knowledge of the forms and functions of written language influences their later reading attainment (Adams, 1990; Badian, 2001; Stuart, 1995; Weiss & Hagen, 1988). This knowledge is acquired by most children during the preschool years and sets the stage for eventual reading achievement. Three aspects of print awareness have received particular attention: print concepts, environmental print recognition, and alphabet knowledge.

According to numerous research studies, assessments measuring a child’s understanding of print concepts have successfully predicted future reading success (e.g., Badian, 2001; Clay, 1993; Stuart, 1995; Tunmer et al., 1988; for review, see Adams, 1990, or Scarborough, 1998). Furthermore, awareness of print concepts has been related to other measures of reading readiness, such as phonological awareness. According to Adams (1990) and to Mason (1980), a child’s awareness of the forms, functions, and uses of print provide the foundation upon which reading and writing abilities are built.

Children begin building concepts about print through literacy-based interactions with the adults in their lives at a very young age. Infants as young as 8 months of age begin handling books, turning pages, and actually babbling in a “reading-like” manner (see Snow et al., 1998). This foundation, however, is not built automatically. It requires active participation with adults in print-focused interactions that are age appropriate in a cognitive, emotional, social, and physical sense (Adams, 1990; Snow et al., 1998).

Indeed, it is during the preschool years that children come to know that print conveys meaning, and they acquire an increasingly sophisticated understanding of print forms (Justice & Ezell, 2001). Through experiences in being read to, children move beyond this understanding to a more comprehensive view of “book knowledge.” Clay (1991) asserted that children who have heard many stories read to them develop awareness that book language, or literary forms of language, is different from spoken language. Clay’s assertion was supported in a series of recent applied studies by Justice and Ezell (2000, 2002; Justice, Weber, Ezell, & Bakeman, 2002), which showed that adult–child shared storybook reading experiences that involve discussion about print increases children’s knowledge of important print concepts.

A child with well-developed print concepts knows several essential points that are necessary to reading acquisition. For example, a child may know that

1. the print tells the story,
2. text on a page is read from left to right,
3. progression through text moves from the top of the page to the bottom of the page,
4. when one page of text is read, the story continues on the following page, and
5. the white spaces between groups of letters represent a break between spoken words or word boundaries (Clay, 1993; Justice & Ezell, 2001).

A student’s knowledge about concepts of print has been found to support reading acquisition (Clay, 1993) and to moderately predict reading ability in the primary grades (for review, see Scarborough, 1998, or Snow et al., 1998).

In addition to knowledge about the concepts of print, children’s interaction with environmental print is another key aspect of the attainment of print awareness. The knowledge that a symbol can stand for an actual object is a prerequisite to understanding the sound–symbol relationship of the alphabetic principle. For example, as described by Snow et al. (1998), very young children recognize the golden arches as a representation of McDonald’s®. This is believed to be an important first step in understanding the concept of print-to-speech mapping, critical to attainment of the alphabetic principle. Not until children are able to move from understanding that print is like pictures and that written words comprise letters that map to speech sounds, will they be able to begin visual word recognition (Snow et al., 1998). Consequently, although environmental print is a necessary step in reading attainment, children must move beyond that understanding to an understanding of the alphabetic principle.

Another critical area of emergent literacy is letter knowledge, which is a reliable and particularly robust predictor of a child’s later reading achievement (Adams, 1990; Catts, Fey, Zhang, & Tomblin, 1999; Scanlon & Vellutino, 1996; Whitehurst & Lonigan, 1998). In fact, knowl-
edge of the alphabet has been described as the best predictor of future reading attainment. In a study of 1,000 kindergarten students, Scanlon and Vellutino (1996) found that 83% of the children would have been correctly identified as being successful or having difficulty with learning to read using a letter identification assessment. Although simple letter recognition can be as successful a predictor of future reading success compared to any other assessment, Adams (1990) posits that it is much more than simply naming the letters that supports reading acquisition—an overall familiarity with the letters and their sounds is necessary in the attainment of early reading skills.

Oral Language

Oral language proficiency has also long been associated with later reading achievement, particularly in the area of reading comprehension. Prediction studies have consistently shown that prekindergarten and kindergarten children’s performance on vocabulary (semantic) and grammar (syntax) tasks accounts for a significant amount of variance in later elementary-grade reading ability (e.g., Catts et al., 1999, 2001; for review, see Scarborough, 1998). Likewise, investigations of poor readers’ oral language abilities have shown semantic–syntactic language abilities to represent particular, albeit occasionally subtle, areas of weakness (e.g., Bishop & Adams, 1990; Catts et al., 2001; Scarborough, 1990).

In a particularly interesting and innovative study of oral language precursors to later reading achievement, Scarborough (1990) followed 52 children from approximately 2 years of age through second grade and conducted six evaluations of oral language skills (e.g., vocabulary knowledge, grammatical abilities) when children were between 2 and 5 years of age. Thirty-four children were at significant risk for developing reading problems due to familial incidence of reading disability. Of these children, 22 (65%) developed substantial reading problems by second grade. Detailed examination of these 22 children’s oral language development over the preschool years showed a relatively greater number of grammatical errors at 2 years of age and poorer receptive and expressive vocabulary knowledge at 4 years, relative to those children who did not develop reading problems.

To this end, Scarborough (1990) has argued that preschool oral language difficulties represent an early manifestation, or symptom, of reading disability. This assertion, which has been supported by more recent studies (e.g., Lombardino, Riccio, Hynd, & Pinheiro, 1997), holds true even for children who are not at explicit risk for developing reading problems (see Snow et al., 1998). Generally speaking, children who show early difficulties with the development of vocabulary knowledge and grammatical skills are more likely to experience literacy problems, relative to children acquiring oral language, according to expected milestones. Taken together, such findings argue the need for promoting semantic–syntactic proficiency during the critical years of early childhood.

Strategies for Promoting Emergent Literacy

Phonological Awareness Activities

Support for phonological awareness should be integrated into the everyday activities of the preschool classroom. Indeed, phonological awareness for children at particular risk for early literacy achievement may best be encouraged through formalized lessons. That is, for young children with limited opportunities for language play at home, or who are at risk for developing a reading disability, explicit instruction in phonological awareness should be provided daily. Explicit does not refer to drill-like activities but rather the structuring of engaging, meaningful, and enjoyable activities that help children to actively attend to the phonological structure of oral language. Activities should focus on those skills acquired during the preschool years, which have been identified as predictive of later reading achievement. These include activities to promote rhyme and alliteration awareness, as well as those designed for promoting blending and segmenting skills. Blending and segmenting skills should begin at the word and syllable level and for older and more capable preschool children may include activities that help children begin developing skills at the onset–rime and phoneme levels.

For children in the emergent stages of literacy development, it is critical to realize that exposure long precedes mastery; increasing explicit engagement in and exposure to phonological awareness activities is more important than relentlessly pursuing mastery of such concepts. Likewise, it is also important to note that children’s attainment of phonological awareness moves from shallow to increasingly deep levels of awareness; fostering attention to larger phonological units, such as words and syllables, precedes awareness of phonemes.

Rhyming and Alliteration. Both rhyme and alliteration awareness reflect shallow levels of phonological awareness, based on the perspective that awareness ranges from shallow to deep levels. Preschool children acquire shallow sensitivity to phonological structure of language, which precedes and develops into eventual deep understanding. In this way, rhyme and alliteration awareness can be viewed as foundational to later attainment of deep levels of phonological awareness.

Both rhyme and alliteration reflect children’s ability to focus sublexically on the phonological structure of spoken language, that is, to consider the sound structure of language as separate from meaning. Rhyme refers to two words’ sharing of a rime structure (the part of a word
following the onset, as in at in cat, flat, or splat), whereas alliteration refers to two words’ sharing of a phoneme in the initial, medial, or final position (as with s in sat and sun or m in plum and ram).

Rhyme and alliteration can be difficult concepts for children to acquire, especially for young children with weak oral language skills (Boudreau & Hedberg, 1999) or limited oral language experiences. Explicit, repeated instruction may be necessary to promote the development of these skills. Rhyme instruction should begin with easier tasks such as rhyme recognition and move to more difficult tasks such as rhyme generation. The same holds true for alliteration awareness. Multiple exposures and opportunities should be provided. Table 1 provides specific examples of rhyming activities appropriate for young children, and Table 2 provides examples of alliteration activities.

### BLENDING AND SEGMENTING ACTIVITIES

Although rhyming activities are important in the development of phonological awareness, alone these activities may not be adequate in preparing young children for the task of learning to read (Blachman, 2000). In numerous studies of nonreading children in kindergarten, blending and segmenting activities have been shown to improve the skills of children with low phonological awareness (Fox & Routh, 1984; O’Connor, Jenkins, & Slocum, 1995; Torgesen, Morgan, & Davis, 1992). For example, Torgesen and associates investigated the effects of blending and segmenting tasks for children in kindergarten with low levels of phonological awareness. Children were assigned to one of three intervention groups: (a) blending tasks, (b) blending and segmenting tasks, and (c) language experience (no phonological awareness). Children who received instruction in blending and segmenting performed better on phonological awareness tasks and on a reading analog task than either of the other two groups.

The success demonstrated by nonreaders who received blending and segmenting instruction on reading analog tasks may be because these phonological skills are most similar to reading and spelling. Children utilize blending skills as they learn to decode words and learn segmenting skills in spelling words (NRP, 2000). Instruction at the preschool level necessarily must begin with

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<th>Table 1. Activities to Promote Rhyming Abilities</th>
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<td><strong>Activity</strong></td>
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<td>Read aloud rhyming</td>
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<td>Explicit instruction in concept of rhyme</td>
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<td>Sorting rhymes</td>
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<td>Rhyme pockets</td>
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<th>Table 2. Activities to Promote Alliteration</th>
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<td>Alliterative sentences</td>
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easier blending tasks, such as blending syllables or onsets and rimes into words. Segmenting tasks can therefore focus on tapping and counting syllables in words or words in sentences or segmenting words into onsets and rimes. Table 3 provides specific examples of activities to promote blending and segmenting skill.

### Print Awareness Activities

Two powerful ways to support the development of print awareness in young children is through adult–child shared storybook reading and print-enriched play. Children benefit in many ways from daily doses of such opportunities (Justice & Ezell, 2002; Neuman & Roskos, 1990; Whitehurst et al., 1988); in addition, these interactions can be explicitly structured to accelerate children's print awareness.

**ADULT–CHILD SHARED STORYBOOK READING.** One strategy for encouraging the development of print concepts, environmental print awareness, and alphabet knowledge is by increasing children's participation in reading interactions that feature books with salient print. Salient print features include large narrative print, redundant text, and contextualized print embedded within the illustrations (Justice & Kaderavek, 2002). Children are more likely to visually attend to print when they are reading books in which print is a salient feature (Justice & Lankford, 2002). Reading of electronic storybooks, in which print is made particularly salient through graphic means (e.g., highlighted links), appears to help children internalize knowledge of print concepts and features (de Jong & Bus, 2002). Additionally, when reading typical storybooks, adults can encourage children to attend to print features (including print embedded within illustrations) by asking questions, making comments about print, and tracking the print while reading.

Studies have shown that adult use of these print-referencing behaviors can be a powerful strategy for enhancing preschool children's print awareness. For instance, Justice and Ezell (2002) recently used these print-referencing strategies (i.e., talking about print, tracking the print) during an 8-week reading program for 3- to 5-year-old children in Head Start. Children made substantial gains on a variety of print awareness measures, including environmental print recognition (for words occurring in the storybooks), alphabet knowledge, and print concepts. Accelerated growth in print awareness has also been observed when parents use these print-referencing strategies during home-based reading interactions (Justice & Ezell, 2000). However, despite the benefits of doing so, adults are unlikely to reference print, verbally or nonverbally, when reading with children (Ezell & Justice, 2000); therefore, teachers and parents may need instruction in structuring book reading interactions to include an explicit focus on print.

**PRINT-ENRICHED PLAY.** Children in preschool classrooms frequently engage in play-based interactions, in-

### Table 3. Activities to Promote Blending and Segmenting Abilities

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<th>Activity</th>
<th>Teacher’s role</th>
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<td>Sound tapping</td>
<td>Preschool children love to play with percussion instruments such as sand blocks, cymbals, and rhythm sticks. These instruments can be used to segment the units of sounds in sentences and words. As the teacher reads a short sentence aloud, the child can tap for each word in the sentence. Likewise, given a multisyllable word, the child can segment the word into syllables by tapping the percussion instruments (Lane &amp; Pullen, 2004).</td>
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<td>Bead counting</td>
<td>Bead counting can be used with individual children, small groups, or large groups. String six large wooden beads of a single color on thick cord (see Figure 1). Ask children to count the words in sentences or the syllables in words and to move a bead, one word or syllable at a time. After children complete the targeted segmenting task, ask them to hold up their bead strings. The teacher can quickly assess the children’s responses (Lane &amp; Pullen, 2004; Sindelar, Lane, Pullen, &amp; Hudson, 2002). This activity can be modified for the various levels of phonological awareness as children progress in phonological awareness.</td>
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<td>Nursery rhyme sound blending</td>
<td>Recite a common nursery rhyme to your class. Segment some words into syllables or onset–rime units. Pause and ask children to blend the sounds together to make the whole word. For example, “Jack be nimble, Jack be quick, Jack jump over the candle stick. What did Jack jump over?” Children would blend the onset and rime together to form the word stick.</td>
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A number of studies have shown that integrating literacy artifacts into children’s play settings can encourage children’s print awareness (e.g., Neuman & Roskos, 1990, 1992). Such artifacts may include functional signs, such as building labels (e.g., grocery store, post office), as well as literacy tools (e.g., paper, pens, books). Children will naturally integrate these artifacts into their play at increasing rates when made available.

An additional strategy for increasing children’s print awareness through play is to use adult mediation. Applied studies have indicated that adults can play an important role in encouraging children to embed literacy artifacts into their play and that this can produce more powerful effects on print awareness relative to simply providing increased access to such artifacts (Christie & Enz, 1992; Neuman & Roskos, 1993). Adults can guide children in how to use artifacts during play (e.g., writing a shopping list prior to going to the grocery store); these mediated opportunities provide additional support for children’s increased understanding of the forms and functions of written language. Table 4 provides examples of materials that can be added to classroom centers to increase literacy-related play.

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<th>Table 4. Literacy-Enriched Play Materials for Centers</th>
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Oral Language Activities

The intricate and robust association between oral language and other aspects of emergent literacy—namely, phonological awareness and print awareness—argues the importance of helping children to develop a strong oral language foundation. As previously described, critical oral language domains include semantics and syntax. The preschool years provide the developing child a brief and singularly critical window of opportunity to develop sophisticated oral language skills; at the end of the preschool years, children's rapid pace of oral language growth slows, as many adults who have attempted to acquire a foreign language know. Importantly, emergent and conventional literacy abilities are built upon this oral language foundation.

Two approaches identified in the language intervention literature that may be particularly useful for enhancing preschool children's oral language performance are focused stimulation and interactive storybook reading. These approaches are described in the following sections.

Focused Stimulation. Children acquire language proficiency through their interactions with others, such as parents, teachers, and peers. Indeed, despite their innate biological propensity for language acquisition, without environmental input children will not develop language to any substantial degree. The quality and quantity of input experienced by young children serve as important sources of variation in vocabulary and syntactic development (Baumwell, Tamis-LeMonda, & Bornstein, 1997; Bloom, 1993; Tamis-LeMonda, Bornstein, & Baumwell, 2001).

Adults interacting with young children can emphasize the use of various input strategies known to be particularly influential for oral language growth. These input strategies help children to map the associations between the environment and particular linguistic forms and functions; their use provides substantial opportunities for children to hear oral language models and to produce increasingly sophisticated productions of their own. The specific strategies discussed here can be integrated into myriad daily activities, including classroom routines (e.g., snack time) and dramatic play interactions (Fey, Cleave, Long, & Hughes, 1993; Girolametto, Pearce, & Weitzman, 1996):

1. Self-talk and parallel talk are two adult-input strategies that provide frequent models of key linguistic forms and labels; these models are incorporated into children's common daily routines. Self-talk refers to an adult's ongoing description of her own activities or thoughts (e.g., I am washing the baby); with parallel talk, the adult provides an ongoing description of the child's activities (e.g., You are putting on the diaper). Self-talk and parallel talk can be structured to provide increased exposure to specific language concepts, for instance, adjectival comparisons (e.g., big vs. little), syntactic devices (e.g., interogatives, pronouns, auxiliary verbs, elaborated nouns), and discourse events (e.g., questions vs. comments vs. requests).

2. Repetitions, in which children's utterances are followed by the adult's exact reproduction of what the child said (e.g., Child: Boy eating; Adult: Boy eating), also provide children with increased exposure to language use and help children recognize the associations between their own language use and their communicative environment. Repetitions can be coupled with praise and encouragement (e.g., You're right! Boy eating) to show children the importance and emerging accuracy of their communicative behaviors.

3. Expansions occur when children's utterances are followed by the adult's production of a slightly more sophisticated rendition (e.g., Child: Boy eating; Adult: The boy is eating). The adult's expansion provides one additional element of semantic or syntactic information beyond that which was provided in the child's utterance. By their very nature, expansions provide children a language model that is only slightly beyond their current level of linguistic independence; therefore, expansions serve as an excellent stimulation strategy. Expansions may be coupled with requests for elaboration to encourage the child's exposure to and use of more sophisticated linguistic productions (e.g., Child: Walking. Adult requests elaboration: Who walking? Child: Boy walking. Adult expands: The boy is walking!).

Again, it is important to recognize that children acquire increasingly refined knowledge of oral language forms and labels through exposure. Exposure that is lacking in quality or quantity, as may occur when children are exposed to little language or to language of little variation, can have an inverse relationship with the rate of oral language acquisition. To this end, it is particularly relevant to point out that children do not need to produce language to acquire language; exposing children to linguistic models of high quality is effective on its own. What this means is that children do not need to imitate language models, nor is there any evidence showing the benefit of young children's participation in language drills. Indeed, these kinds of activities do little to promote oral language expertise.

Interactive Reading. In addition to accelerating children's print awareness, as discussed previously in this article, storybook reading has been found to be a powerful enhancer of oral language proficiency, particularly in the area of vocabulary development (e.g., Bus, van Ijzendoorn, & Pellegrini, 1995; Ninio, 1983; Pellegrini, Galda, Jones,
Adult–child storybook reading interactions have been used in a number of recent studies as a deliberate context for encouraging children’s oral language proficiency, as seen in a research program conducted by Whitehurst and his colleagues (e.g., Crain-Thoreson & Dale, 1999; Whitehurst et al., 1988, 1994). These studies, as well as several others, have unequivocally shown that adults’ reading with young children can incorporate specific interactive strategies into book reading interactions to encourage oral language development. Although book reading by itself has been positively associated with oral language achievements (see Scarborough & Dobrich, 1994), the following strategies, when incorporated directly into reading interactions, appear to accelerate the pace of language growth. Such strategies are designed to

1. **Repetitions:** The adult repeats what the child says verbatim.
2. **Expansions:** The adult repeats what the child says but adds additional linguistic information.
3. **Open-Ended Questions:** The adult asks the child questions requiring more than a yes/no response, such as *who* or *what* questions.
4. **Praise:** The adult gives the child positive feedback regarding participation in the book reading activity.

The research program conducted by Whitehurst and colleagues (e.g., see Whitehurst et al., 1988, 1994) has shown adults’ use of the following behaviors during storybook reading to be effective for advancing oral language skills in preschool children, including those who are at risk. Use of these strategies has been shown to influence vocabulary knowledge as well as mean length of utterance, a general index of syntactic development.

- **Active Participation:** Active participation occurs when children are asked to name and point to items with novel names occurring in illustrations; this is more powerful to oral language growth than simply hearing new words spoken in the context of a story.
- **Repeated Readings:** Ongoing exposure to new words through repeated storybook readings positively influences children’s receptive vocabulary skills; children are more likely to acquire words that they have heard repeatedly.
- **Story Props:** Providing children with opportunities to interact with props associated with particular stories (e.g., musical instruments for a story involving a musician) increases the likelihood that children will acquire new words associated with the stories.

**Summary**

The preschool years are critical to the development of emergent literacy skills that will help prevent later reading problems. Early literacy skills, such as phonological awareness and letter knowledge, represent the best predictors of later achievement in reading (see Adams, 1990; Snow et al., 1998), and oral language is highly correlated with emergent literacy knowledge. Parents and teachers of preschool children play an important role in helping to develop these skills, and fortunately, activities that promote phonological awareness, oral language development, and print awareness can be easily incorporated into preschool activities at home and at school.

Throughout the school day, teachers should look for opportunities to incorporate activities that promote emergent literacy skills. Circle time provides the opportunity to play group games that develop phonological awareness; share big books, focusing on print concepts; and engage children in meaningful conversation that develops oral language. Parent volunteers are an excellent resource for shared storybook reading; train volunteers to engage in storybook reading that promotes oral language development and print awareness. Centers throughout the preschool classroom can incorporate literacy-related props, and parents and teachers can guide children’s play in meaningful ways. Incorporating activities that promote phonological awareness, print concepts, and oral language development can enhance the preschool experience for young children. The activities presented in this article provide opportunities for parents and teachers of young children to capitalize on this critical learning period and help ensure children a smooth transition into formal reading.

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**Authors' Note**

Several of the phonological awareness activities described in this manuscript are based on collaboration between the first author and Dr. Holly B. Lane at the University of Florida.

**References**


Appendix A:
Children’s Literature with Multiple Rhyme Patterns