Phonological Awareness Is Child’s Play!

Both Miss Binder and Ms. Mahalingam had thoughtfully planned these experiences to engage the children in activities that stimulate interest in and experimentation with the sounds of language. They are supporting phonological awareness, a crucial part of reading development.

What is phonological awareness?

Phonological awareness is sensitivity to the sound structure of language. It demands the ability to turn one’s attention to sounds in spoken language while temporarily shifting away from its meaning. When asked if the word *caterpillar* is longer than the word *train*, a child who answers that the word *caterpillar* is longer is demonstrating the ability to separate words from their meanings. A child who says the word *train* is longer has not separated the two; a train is obviously much longer than a caterpillar!

Children who can detect and manipulate sounds in speech are phonologically aware. The children who added a sound to E-I-E-I-O demonstrated some phonological awareness.

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Syllable awareness

The ability to discern syllables (that the word friend has one syllable, cubby has two, tricycle has three, and so on) occurs early in the developmental progression of phonological awareness. When our own children were 4, they enjoyed playing word games in which they identified the word that would result if syllables were combined. Driving down the street, one of us might say, “I see a mar—ket,” and our children would be delighted to respond, “Market! You see a market! More, Mommy!” “OK. I see a lan—tern.” “Lantern, Mom!” Blending the syllables together to form words seemed relatively easy for them; they caught on to the game quickly.

Our children found it more difficult to break words apart to provide the syllable clues. Their ability to segment words into syllables took longer to develop. “Mom, I want to try it. I want to give the broken word. Ready? I see an . . . apple!” they might say, attempting to give the clue but instead blurting out the entire word. They recognized that they had not done something quite right, but they were not sure what it was or what to do about it. Eventually, however, our 4-year-olds could segment words into syllables, and they enjoyed trying to stump us with multisyllabic words: “Guess what I am saying: Dal—ma—tian; tric—ycle; hel—i—copter.” We called this play with syllables the best stump us with multisyllabic words: “Guess what I am saying: Dal—ma—tian; 4-year-olds could segment words into syllables, and they enjoyed trying to were not sure what it was or what to do about it. Eventually, however, our word. They recognized that they had not done something quite right, but they they might say, attempting to give the clue but instead blurting out the entire “Mom, I want to try it. I want to give the broken word. Ready? I see an . . . apple!” they might say, attempting to give the clue but instead blurting out the entire word. They recognized that they had not done something quite right, but they were not sure what it was or what to do about it. Eventually, however, our 4-year-olds could segment words into syllables, and they enjoyed trying to stump us with multisyllabic words: “Guess what I am saying: Dal—ma—tian; tric—ycle; hel—i—copter.” We called this play with syllables the broken word game.

Onset-rime awareness

Reflecting on onsets and rimes—smaller units within syllables—is a more complex skill. Onsets are the consonant sounds that precede a vowel in a syllable. For instance, the sound c is the onset in the one-syllable word cat; r is the onset in the two-syllable word window, w is the onset in the first syllable (win), and d is the onset in the second syllable (dow). Some syllables have no onsets. An, for instance, has no onset; no sound precedes the vowel.

Important Understandings about Phonological Awareness

- Phonological awareness is the ability to attend to and manipulate units of sound in speech (syllables, onsets and rimes, and phonemes) independent of meaning.
- Phonemic awareness is one aspect (and the most difficult) of phonological awareness. It is the ability to attend to and manipulate phonemes, the smallest sounds in speech.
- Phonological awareness includes matching, synthesis (for example, blending, adding), and analysis (for example, counting, segmenting, deleting) of spoken sounds. Analysis tasks are generally more challenging; production is typically more difficult than recognition.
- Phonological awareness and phonemic awareness are different from phonics. Phonics is a means of teaching reading in which the associations between letters and sounds are emphasized.
- Phonological awareness is highly related to later success in reading and spelling.
- Phonological awareness can be taught. Instruction should be child-appropriate and intentional.
- Although instruction should generally progress from larger to smaller units of sound, phonological awareness development is not lockstep and children need not master one level before being exposed to other levels of phonological awareness.
- Concrete representations of sound units (such as chips and blocks) may help make mental manipulations of sounds easier for some children. Pictures and objects may help reduce memory load.
All syllables have a rime unit. Rimes consist of the vowel and any sounds that follow it in the syllable. For example, the rimes in cat and frog are at and og, respectively. The rime in the first syllable of window is in, and the rime in the second syllable of window is ow. A rime may consist only of the vowel if no consonant follows. Children who identify the onset-rime level of speech can, among other manipulations, blend mmm—an together to form the spoken word man and separate the r from the rime ipe to say rrr—ipe.

**Phoneme awareness**

Smaller still—in fact, the smallest unit of speech that makes a difference in communication—are phonemes. These are the individual sounds of spoken language. The number of sounds in speech varies greatly among languages, from as few as about 10 phonemes in Múra-Pirahã (spoken in a region of Brazil) to more than 140 phonemes in !Xu (spoken in a region of Africa). English speakers use about 44 sounds. Spanish speakers use about 24. Thinking about and manipulating these smallest sounds of speech is the most complex of the phonological awareness skills and is referred to as phoneme awareness or phonemic awareness. Typically it is the last and deepest understanding of speech that children acquire (Stahl & Murray 1994). It involves knowing that the spoken word light consists of three sounds (i-light-t) and the spoken word black consists of four (bl-ack).

In the remainder of this article, sounds are represented by letters between slash marks; for example, /s/ represents the sound at the beginning of the word soap. Letter names are represented by capitals.

Why is phonological awareness important in reading development?

In English—and many other languages—the written language is predominantly a record of the sounds of the spoken language. With a few exceptions, the English language is written out sound by sound. (Exceptions include but are not limited to symbols such as $, %, #, and &, which represent ideas rather than the sounds of speech; you can’t sound out these symbols!) For example, to write the word cat, we listen to the individual sounds in the word (the phonemes) and then use the symbols that represent those sounds: C-A-T. Sometimes sounds are represented by letter combinations rather than a single letter. The three sounds in fish (/f/-/i/-/sh/) are written with four letters: F-I-S-H; the combination of S and H represents the single sound /sh/.

We must be able to notice and have a firm grasp of the sounds of our speech if we are to understand how to use a written...
system that records sounds. Individuals who are unaware that speech is made up of small sounds—those who don’t notice and cannot mentally grab hold of and manipulate them—have difficulty learning to read a written system based on sounds. A child’s ability to reflect on language itself, specifically the sounds of language and especially the phonemes, supports the child’s understanding of the logic of the written code. That we use symbols to represent small sounds makes sense because the English language consists of small sounds. Indeed, in the last several decades a preponderance of evidence has revealed that noticing and being able to manipulate the sounds of spoken language—phonological awareness—is highly related to later success in reading and spelling (see Adams 1990 and Ehri et al. 2001 for reviews). The developmental origins of this awareness can be traced to the preschool period (Lonigan, Burgess, & Anthony 2000; Ehri & Roberts 2006; Lonigan 2006; Phillips, Clancy-Menchetti, & Lonigan 2008).

How can preschool teachers support phonological awareness development?

Young children have a natural propensity to play with language, and the early years are an optimal time to foster and extend their explorations. For instance, in Ms. Garcia’s room, the children learned the Spanish chant “Bate, Bate Chocolate,” which helps children break down syllables: “Uno, dos, tres, CHO! Uno, dos, tres, CO! Uno, dos, tres, LA! Uno, dos, tres, TE!” Four-year-old Franco later adapted this chant as he played with and named animal figurines, spontaneously chanting, “Uno, dos, tres, O! Uno, dos, tres, SO!” and “Uno, dos, tres, BU! Uno, dos, tres, RRO!” In Mr. Hernandez’s room, 3-year-old Jessie pounded a few blocks together and vocalized, “Boom boom bam bam boom boom bim!” Another time, Mr. Hernandez heard Molly singing quietly, “Molly, dolly, polly, jolly, Molly, dolly, polly, jolly.” Insightful preschool teachers notice children’s spontaneous play with the sounds of language, respond to it, and encourage it, often joining in themselves. Mr. Hernandez, for example, joined Jessie, tapped two blocks together, and chanted, “Zoom zoom zam zam zoom zoom zim! Have you got another way?” He extended Jessie’s play with sounds.

In addition to watching for these spontaneous teachable moments, Mr. Hernandez deliberately establishes a phonologically rich environment (Torgesen & Mathes 1998) similar to a print-rich environment. Children learn about print when they see it used in a variety of contexts and for a variety of purposes. So too can children benefit from being surrounded by the sounds of language—as they sing, chant, listen to books, and play games that focus on sound manipulation.

Furthermore, Mr. Hernandez deliberately engages children in activities that target different levels of phonological awareness, planning experiences that move from targeting larger sound units to smaller ones. He models sound manipulations, later guiding the older children to perform them. He considers the type of manipulation, recognizing that blending is typically easier than segmenting. He shows pictures of animals and, after ensuring that the children can identify them, has them point to the one he means when he says /ze/-/bra/. In small groups, children play the coin sound game, in which they represent sounds by moving coins or chips, or they play with interlocking blocks, pulling them apart as they segment words into sound chunks.

Below we share five suggestions that preschool teachers can easily implement as they support young children’s development of phonological awareness.

**Read aloud books that play with sounds**

Preschool teachers can read aloud books that draw attention to sounds (Yopp 1995; Yopp & Yopp 2000). For example, Los Niños Alfabeticos, by Lourdes Ayala and Margarita Isona-Rodríguez, uses alliteration and rhyme throughout. Sound substitution is the focus of Cock-a-doodle-MOO! by Bernard Most, which describes a rooster’s dismay when he loses his voice. The rooster enlists the aid of a cow to awaken the farm residents. Unable to say “cock-a-doodle-doo,” the cow says, “mock-a-moodle-moo,” “sock-a-noodle-moo,” and other mixed-up versions of the morning greeting.

Reading aloud books like these help draw even very young children’s attention to the sounds of language. Teachers of older preschoolers—ages 4 and 5—may extend the learning by deliberately focusing on the phonological features. For instance, teachers can encourage children to predict rhyming words or alliterations and to repeat and add to the silly sound manipulations: “The cow said ‘Mock-a-moodle-moo!’ How silly! We can do this, too. How about ‘dock-a-doodle-doo’ or ‘pock-a-poodle-poo’? Who has another way?”

Noticing and being able to manipulate the sounds of spoken language—phonological awareness—is highly related to later success in reading and spelling.
After reading aloud Bernard Waber’s *Bearsie Bear and the Surprise Sleepover Party*, Ms. Hansen chatted with the children in her class about the names of the animals in the story—Moosie Moose, Foxie Fox, Goosie Goose, and others. She repeated the names a few times, then shared a collection of small stuffed animals and encouraged the children to name them. Ms. Hansen placed the animals in a play center, along with the book and a box with blankets. For days, children reenacted the story, created their own versions, and—most important—repeated and continued to play with the sounds in the animals’ names.

Alphabet books are another valuable resource for promoting phonological awareness. Teachers and children talk about sounds (in addition to letters) as they look at and read alphabet books. (For more books—in English and Spanish—see “Read-Aloud Books That Play with Language.”)

When using any book to stimulate phonological awareness in 4- and 5-year-olds, do the following:

- Select a book that makes obvious use of sound play. Read it yourself before reading it to children. This will ensure smooth reading and prepare you to comment on, highlight, explain, and extend the book’s language play.
- Comment on the book’s language play. Invite children to share their observations about the language and to add their own play with sounds. Appreciate and visibly enjoy children’s efforts.
- Read the book several times in a period of a few weeks. Encourage children to participate by chanting along or predicting the sound manipulations as you read.

**Books in English**


**Books in Spanish**


• Place the book in a readily accessible location for several weeks or longer, and encourage children to revisit the book on their own.
• Share book-related objects that encourage further interaction with the story and that might stimulate additional story-related language play. Model the use of the objects, but appreciate children’s creativity.
• Reread the book on subsequent occasions, exploring the language play again.

**Share poetry that plays with sounds**

Teachers may share poetry with children and encourage older preschoolers to recite the poems and add to them. For example, after children have heard and chanted “Hickory Dickory Dock” several times, suggest they create a poem titled “Hickory Dickory Dare.” Ask the children where the mouse might go. Some children might appropriately substitute the onset by saying “The mouse ran to the fair” or “The mouse ran through the hair.” Other children might offer responses such as, “The mouse ran to the store.” Chuckle and appreciate this response for its image, but gently guide the child to offer a word that fits the sound pattern. Provide feedback, such as “Good idea! I can picture in my head a mouse running to a store! Let’s see if we can use a word that rhymes with dare: ‘Hickory Dickory Dare,’ the mouse ran to the bear.’ What else rhymes with dare? Care? Share? Let’s try!” Invite enthusiastic children to offer other variations of the poem: “Hickory Dickory Doo,” “Hickory Dickory Dub,” “Hickity Dickity Diddle.”

Poetry anthologies for young listeners often include poems that play with sounds. Shel Silverstein’s collections have many such poems, including one of our favorites, *Falling Up*. Silverstein retells the story of Pinocchio, referring to him as the wooden bloke-io, whose nose grew as he spoke-io, thought life was a joke-io (and got in trouble), but by the end of the two-page poem everything was okey-dokey-o. *The Random House Book of Poetry for Children*, compiled by Jack Prelutsky, and *Here’s a Little Poem: A Very First Book of Poetry*, selected by Jane Yolen and Andrew Fusek Peters, are also good resources for English speakers. *Los Pollitos Dicen/The Baby Chicks Sing*, by Nancy Abraham Hall and Jill Syverson-Stork, and *Mother Goose on the Rio Grande*, by Frances Alexander, are appropriate for Spanish speakers.

When sharing poetry (or songs) to stimulate phonological awareness in 4- and 5-year-olds, do the following:
• Select a poem that has sound play as a dominant feature.
• Read the poem to the children several times. Be sure to enjoy the poem as you recite it. Keep the sharing oral so the focus is on listening. Display the printed poem later if you wish.
• Encourage children to learn short poems well enough to say them with you. This may take several days and multiple repetitions. With long poems, encourage children to learn a few lines or phrases that they can chant.
• Comment on the language play, drawing attention to obvious alliterations and other sound manipulations (such as the “io” in Silverstein’s “Pinocchio”). Invite children’s responses.
• Encourage, but do not require, the children to be creative with the poem, making their own versions or extensions. Provide prompts, as in the case of “Hickory Dickory Dock.” Write children’s creations on posters, and display them in the room for further sharing. Consider compiling a classroom poetry book. Keep a copy in the library corner, and make copies to send home.
• Revisit poems periodically during the year.

**Share songs that play with sounds**

Many children’s songs include sound play. “Willoughby Wallaby Woo,” for instance, prompts children to sing their own names, substituting /w/ for the initial sound (the onset) in the first syllable:
Willoughby Wallaby Woo,
An elephant sat on you.

Willoughby Wallaby Wee,
An elephant sat on me!

Willoughby Wallaby Weter,
An elephant sat on Peter.

Willoughby Wallaby Willy,
An elephant sat on Billy.

In “Down by the Bay,” a moose kisses a goose, llamas wear pajamas, and a whale has a polka dot tail. In “The Bee and the Pup,” children sing about a bee-i-ee-i-ee who sat on a wall-i-all-i-all and went buzz-i-uzz-i-uzz. In “Oo-pples and Boo-noo-noos,” children substitute vowel sounds to sing about apples and bananas in silly ways. Children become enthusiastic participants in these playful songs and often improvise original lyrics. Some songs are particularly well suited for this type of play (Yopp 1992; Yopp & Yopp 2002). The recommendations for poetry use apply to the use of songs as well.

Play games that draw attention to sounds

One frequently requested game Miss Son plays with 4- and 5-year-olds is the guessing game “I Spy.” She says, “I spy with my little eye something all of you are wearing that begins like this: /sh/.” The children look at one another, and several exclaim, “Shoe!” “Yes. Shoe begins with /sh/. Listen: shhhhhhoe,” she draws out. Next she says, “I spy with my little eye something on the wall that begins like this: /m/.” Guesses from the children include “mirror” and “map.”

Tommy, noting that Miss Son appears to be looking in the direction of the book corner, says, “Books.” Miss Son gently reinforces the correct responses by exaggerating the initial sound, and she comments that Tommy thought of an object that begins with the sound /b/.

On another day, Miss Son introduces the puppet Ziggy Zebra. She says that Ziggy is silly because he always pronounces names by substituting /z/ at the beginning. Ziggy pronounces Miss Son’s name, Miss Zon, and Tommy is called Zommy. Over the next few days, she introduces other puppets: Benny Beetle, who says everyone’s name with a /b/ sound at the beginning; Lizzy Ladybug, who says everyone’s name with an initial /l/ sound; and so forth.

Later, Miss Son will use the puppets to model segmentation of phonemes. A puppet will tell the children it can run /l/-/a/-/s/-/t/ and ask if the children know what it said. It will say that it likes to eat /p/-/ea/-/s/-. The children participate enthusiastically and then use the puppets on their own.

Teachers can create many games that play with sounds (see “Games for Phonological Awareness” for additional examples). In doing so, they should consider the following:

- Select games that stimulate language play among participants.

**Modifications of Familiar Songs**

Here are a number of songs that lend themselves to children’s word play—changing the onset (the opening consonant sound of a syllable) or the rime (the vowel sound and following consonants in a syllable). If you are not familiar with the tunes, you might find them online on YouTube.

**Old MacDonald’s Farm**

Old MacDonald had a farm
He-hi-he-hi-ho!
And on that farm he had a pig
He-hi-he-hi-ho!
With a hoink hoink here
And a hoink hoink there,
Here a hoink,
There a hoink,
Everywhere a hoink hoink,
Old MacDonald had a farm
He-hi-he-hi-ho!

**Head and Shoulders, Knees and Toes**

Nead and noulders, nees and noes, nees and noes,
Nead and noulders, nees and noes, nees and noes,
And neyes and nears and nounth and nose,
Nead and noulders, nees and noes, nees and noes!

**John Jacob Jingleheimer Schmidt**

Pohn Pacob Pingleheimer Schmidt,
His name is my name too.
Whenever we go out,
The people always shout,
There goes Pohn Pacob Pingleheimer Schmidt.

**I’ve Been Working on the Railroad**

Ke-ki-kiddly-i-o
Ke-ki-kiddly-i-o-o-o-o
Ke-ki-kiddly-i-o00o
Ke-ki-kiddly-i-o!

**The Farmer in the Dell**

The farmer in the dell,
The farmer in the dell,
Mi-mo the merry-o,
The farmer in the dell.

**This Old Man**

This old man, he played one,
He played bick-back on his thumb,
With a bick-back, paddy wack, give a dog a bone,
This old man came rolling home.
• Ensure that games are enjoyable (even silly) and stress-free for participants.
• Encourage, but do not require, children to participate. Some will contribute and others will listen.
• Participate in the game and model an interest in and excitement about language.
• Respond positively and enthusiastically to children’s attempts to manipulate the sounds of their language.

**Involve families**

The home, too, provides fertile ground for sound play (Bishop, Yopp, & Yopp 2000). Teachers can share books, poems, songs, and games with families to enjoy with their children at home. This practice communicates to families the value of engaging in what might seem to be silly, nonsensical sound play with their children. Encourage families who speak a language other than English to use their home language to engage in language activities that manipulate sounds (Dickinson et al. 2004; Yopp & Stapleton 2008). Many cultures have traditional rhymes, chants, and songs that use sound play. Families who share these with their children are supporting their literacy development in many ways, one of which is by stimulating a sensitivity to sounds in spoken language. Research suggests that phonological awareness transfers from one language to another (Durgunoglu & Oney 2000). When children have opportunities to explore speech sounds of any language, they build insight about the nature of speech and carry that insight to a second language.

When encouraging family involvement, teachers can do the following:
• Share the value of language play in the home language at drop-off and pickup times, during conferences, and through newsletters and other communications.
• Invite family members to visit and observe phonological awareness activities in the classroom.
• Read aloud books and poems, sing songs, and demonstrate games at family meetings to model appropriate language play with young children. Ensure that family members view these as joyful and important experiences.
• Send home lists of highly recommended read-aloud books. Provide a handout with poems and song lyrics to share with children at home.
• Ask bilingual/multilingual family members, colleagues, and community members to be classroom resources. Ask them to share with you books, traditional poems, and songs in their home language that play with sounds. Pass these along to other families who speak the same language.

**Conclusion**

We titled this article “Phonological Awareness Is Child’s Play!” because we believe that, for young children, developmentally appropriate phonological awareness activities are a form of play. Riddles, games, singing, and dramatization will bring on laughter, silliness, and experimentation.

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### Games for Phonological Awareness

**Clapping Syllables**
- Explain to children that the game is to clap the beats (or chunks) of the words they speak.
- Begin with clapping the syllables in children’s names. For instance, clap three times as you slowly chant “Erica.” Clap two times as you say “Kareem.” Clap one time as you say “Dan.”
- Clap every child’s name during a group activity. It is important to slow down and emphasize each syllable.
- Clap all the syllables in other words. Try table, chair, carpet, bookcase, lunch, paper, carpet, bookcase, playground, basketball. Clap on a variety of occasions. For instance, clap the names of foods you are eating for lunch. Let children offer words to clap.
- Say a sentence slowly, and then invite children to repeat the sentence with you while you all clap the syllables (“The children went outdoors” will have six claps).

**Guess Which Object**
- Hold up two objects. (Photographs or picture cards will also work.) Be sure that the objects begin with different sounds, such as a leaf and a marker. Identify each object with the children to ensure that you all are using the same label.
- Tell the children that the object of the game is for them to guess which of the objects you are thinking of. Let them know that you will give them a clue.
- Tell children the first sound in the word you are thinking of (/l/ if you are thinking of the leaf). Or tell children all the individual sounds of the word (“I’m going to say what I’m thinking of in a funny way. I’m thinking of the /l/-/ea/-/f/”). Or remove the initial sound of the word (“I’m going to leave off part of the word. Do you know what I’m thinking of? It’s the eaf”).
- Congratulate children for correct responses. Chuckle with them if you were able to “trick” them.
- Repeat with other objects.
- Offer children the opportunity to be the person who is thinking of the object and provides the clue.
However, knowledgeable educators know that phonological awareness is much more than play. It is also serious business. These educators recognize that they play a key role in promoting phonological awareness. They know that its development will contribute to a child’s successful launch into literacy and deserves thoughtful and careful attention.

References


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