<http://www.readingrockets.org/article/phonemic-activities-preschool-or-elementary-classroom>

Listening to sequences of sounds

Objective

To develop the memory and attentional abilities for thinking about sequences of sounds and the language for discussing them.

Materials needed

Objects that make interesting, distinctive sounds. Some examples follow:

|  |  |
| --- | --- |
| banging on wall/table/lap blowing blowing a whistle blowing nose clapping clicking with tongue closing purse coloring hard on paper coughing crumpling paper cutting with a knife cutting with scissors dropping (various things) drumming with fingers eating an apple folding paper hammering hopping noisy chewing | opening window or drawer pouring liquid ringing a bell rubbing hands together scratching sharpening a pencil slamming a book smashing crackers snapping fingers stamping stirring with teaspoon tearing paper tiptoeing turning on computer walking whistling writing on board writing with a pencil |

Activity

In this game, the children are challenged first to identify single sounds and then to identify each one of a sequence of sounds. Both will be very important in the language games to come. The children are to cover their eyes with their hands while you make a familiar noise such as closing the door, sneezing, or playing a key on the piano. By listening carefully and without peeking, the children are to try to identify the noise.

Once the children have caught on to the game, make two noises, one after the other. Without peeking, the children are to guess the two sounds in sequence saying, "There were two sounds. First we heard a \_\_\_\_, and then we heard a \_\_\_\_."

After the children have become quite good with pairs of noises, produce a series of more than two for them to identify and report in sequence. Again, complete sentences should be encouraged.

Remember that, to give every child the opportunity to participate mentally in these games, it is important to discourage all children from calling out their answers until they are asked to do so. In addition, both to support full participation and to allow assessment of individual students, it is helpful to switch unpredictably between inviting a response from the whole group and from individual children of your designation.

*Note:* Because of the importance of the skill exercised through this game, invest special care in noting every child's progress and difficulties. Extra opportunities should be created to work with children who are having trouble with the concept of sequences or in expressing their responses.

Variations

* With the children's eyes closed, make a series of sounds. Then repeat the sequence, but omit one of the sounds. The children must identify the sound that has been omitted from the second sequence.
* Invite the children to make sounds for their classmates to guess.
* These games also offer good opportunities to review, exercise, and evaluate children's use of ordinal terms, such as first, second, third, middle, last. It is worth ensuring that every student gains comfortable, receptive, and expressive command of these terms.

Nonsense

Objective

To develop the children's ability to attend to differences between what they expect to hear and what they actually hear.

Materials needed

Book of familiar stories or poems

Activity

Invite the children to sit down and close their eyes so that they can concentrate on what they will hear. Then recite or read aloud a familiar story or poem to the children but, once in a while, by changing its words or wording, change its sense to nonsense. The children's challenge is to detect such changes whenever they occur. When they do, encourage them to explain what was wrong. As the game is replayed in more subtle variations across the year, it will also serve usefully to sharpen the children's awareness of the phonology, words, syntax, and semantics of language.

As illustrated in the following list, you can change any text in more or less subtle ways at a number of different levels including phonemes, words, grammar, and meaning. Because of this, the game can be profitably and enjoyable revisited again and again throughout the year. Even so, in initial plays of the game, it is important that the changes result in violations of the sense, meaning, and wording of the text that are relatively obvious. Following are some examples of the "nonsense" that can be created within familiar poems and rhymes:

|  |  |
| --- | --- |
| *Song a sing of sixpence* | Reverse words |
| *Baa baa purple sheep* | Substitute words |
| *Twinkle, twinkle little car* | Substitute words |
| *Humpty Dumpty wall on a sat* | Swap word order |
| *Jack fell down and crown his broke* | Swap word order |
| *One, two shuckle my boo* | Swap word parts |
| *I'm a tittle leapot* | Swap word parts |
| *The eensy weensy spider went up the spouter wat.* | Swap word parts |
| *One, two, buckle my shoe Five, six, pick up sticks* | Switch order of events |
| *Little Miss Muffet, eating a tuffet Sat on her curds and whey* | Switch order of events |
| *Goldilocks went inside and knocked on the door.* | Switch order of events |
| *The first little piggy built himself a house of bricks.* | Switch order of events |

*Note:* Don't forget to switch unpredictably between asking the whole group or individual children to respond.

Clapping names

*From chapter 6: Awareness of syllables*

Objective

To introduce the children to the nature of syllables by leading them to clap and count the syllables in their own names.

Activity

When you first introduce this activity, model it by using several names of contrasting lengths. Pronounce the first name of one of the children in the classroom syllable by syllable while clapping it out before inviting the children to say and clap the name along with you. After each name has been clapped, ask "How many syllables did you hear?"

Once children have caught on, ask each child to clap and count the syllables in his or her own name. Don't forget last names, too! It is easy to continue clapping other words and to count the syllables in each. If a name has many syllables, you may need to let children count the syllables as they are clapping.

Variations

* Ask the children to clap and count the syllables of their first and last names together.
* After determining the number of syllables in a name, ask the children to hold two fingers horizontally under their chins, so they can feel the chin drop for each syllable. To maximize this effect, encourage the children to elongate or stretch each syllable.
* As follows, this activity can be done to a rhythmic chant, such as "Bippity, Bippity Bumble Bee":

Bippity, bippity bumble bee, Tell me what your name should be.

(Point to a child; that child responds by giving his name. Class repeats name out loud. Continue with one of the following:)

* + "Clap it!" (Children repeat name, enunciating and clapping to each syllable.)
  + "Whisper it!" (Children whisper each syllable while clapping.)
  + "Silent!" (Children repeat name, silently enunciating syllables with mouth movement.)

Finding things: Initial phonemes

*From chapter 7: Initial and final sounds*

Objective

To extend children's awareness of initial phonemes by asking them to compare, contrast, and eventually identify the initial sounds of a variety of words.

Materials needed

Picture cards

Activity

This game should be played as an extension of Activity 7B: Different Words, Same Initial Phoneme. [Editor's note: this activity is found in the authors' book]. Spread a few pictures out in the middle of the circle. Then ask the children to find those pictures whose names start with the initial sound on which they have just been working. As each picture is found, the child is to say its name and initial phoneme as before (e.g., *f-f-f-f-ish*, */f-f-f-f/, fish*).

Variations

* As the children become more comfortable with the game, spread out pictures from two different sets, asking the children to identify the name and initial phoneme of each picture and to sort them into two piles accordingly.
* Pass pictures out to the children; each must identify the initial phoneme of her or his picture and put it in the corresponding pile. This game works well with small groups.
* Sound-traition: Pass pictures of objects or animals to the children, naming each picture and placing it face down on the table or carpet. Children take turns flipping pairs of pictures right side up and deciding if the initial sounds of the pictures' names are the same. If the initial sounds match, the child selects another pair; otherwise, another child takes a turn. This game works well with small groups.

Word pairs I: Take a sound away (analysis)

*From chapter 7: Initial and final sounds*

Objective

To help the children to separate the sounds of words from their meanings.

Activity

By showing the children that if the initial phoneme of a word is removed a totally different word may result, this activity further helps children to separate the sounds of words from their meanings. With the children seated in a circle, explain that sometimes when you take a sound away from a word, you end up with a totally different word.

To give the children an example, say "*f-f-f-ear*," elongating the initial consonant, and have the children repeat. Then say "*ear*," and have the children repeat. Ask the children if they can determine which sound has been taken away and repeat the words for them (i.e., *f-f-f-f-ear – ear – f-f-f-f-ear – ear*).

In this way, the children are challenged to attend to the initial phonemes of words even as they come to realize that the presence or absence of the initial phoneme results in two different words. Across days, gradually work up from the easier initial consonants to harder ones. Sample word lists are provided at the end of the chapter.

*Note:* Most children can identify the "hidden word" but have a great deal of difficulty in identifying what is taken away. Children may also be inclined to produce rhyming words rather than to focus on initial sounds. With this in mind, take care not to flip back and forth between the activities involving rhyming and initial sounds.

Variations

* To help the children notice that the initial sound makes a big difference in the words' meanings, ask them to use each word in a sentence.
* When the children are comfortable with this game, play it with game 7I: Spider's Web. [Editor's note: this activity is found in the authors' book].
* Call the children to line up by naming their first names without the initial sound (e.g., *[J]-onathon*). The children have to figure out whose name has been called and what sound is missing. You may want to delete initial blends as a unit until after blends have been introduced in Chapter 8 (e.g., *[St]-anley*).

Word pairs II: Add a sound (synthesis)

*From chapter 7: Initial and final sounds*

Objective

To introduce children to the challenge of synthesizing words from their separate phonemes.

Activity

Seat the children in a circle, and begin by explaining that sometimes a new word can be made by adding a sound to a word. As an example, say "*ox*," and have the children repeat it. Then ask what will happen if they add a new sound to the beginning of the word such as f-f-f-f-f: "*f-f-f-f-f…ox, f-f-f-f…ox, f-f-f-f-ox*." The children say, "*fox!*" You should then explain, "We put a new sound on the beginning, and we have a new word!"

Until the children catch on, you should provide solid guidance, asking the children to say the word parts with you in unison (e.g., "ice…m–,–,–,…ice…m-m-m-ice…mice"). Again, it is appropriate to work up gradually, across days, from the easier initial consonants to harder ones and, only after the latter are reasonably well established, to consonant blends (e.g., *mile-smile*).

Variations

* Invite the children to use each word of a pair in a sentence to emphasize the difference in their meanings.
* When the children are good at this, play it with 7I: Spider's Web. [Editor's note: this activity is found in the authors' book].

Two-sound words

*From chapter 8: Phonemes*

Objective

To introduce the children to the challenges of analyzing words into phonemes and of synthesizing words from phonemes.

Materials needed

* Blocks
* Two-phoneme word cards

Activity

These two-sound games serve to introduce the procedure and logic of the more difficult phonemic analysis and synthesis activities that follow. In addition, two-sound words provide an unfettered medium for giving children practice with the sounds of the various phonemes, both in isolation and as blended together in phonologically minimal words.

In view of this, it is more helpful to revisit them as needed by individuals or by the group than to dwell too long in any given session. Because of their foundational importance, however, it is critical that every child grasp this concept before moving on to the more advanced activities.

On the first day, it is sufficient to do analysis only. On subsequent days, begin with analysis and shift to synthesis. Similarly, for the first few days, it is wise to separate play with initial consonant words from play with final consonant words for clarity. Once the children have caught on, the two types of words could be freely intermixed. Finally, because the short vowels are so much more variable and less distinctive in both sound and articulation, their introduction should be deferred until the children are reasonably comfortable with long-vowel words.

Again, to clarify the children's image of the phonemes and to support their ability to distinguish them one from another, it is valuable to ask them to feel how their mouths change position with each sound or to look at their mouths in a mirror while saying the words. In addition, as in all of the phonemic awareness activities, it is important to ensure that the students are familiar with each word used in these exercises. If you suspect that any of your students are not, it is wise to review the word's meaning and usage.

*Note:* To play these games, each of the children should have two blocks. In addition, you should have two blocks of your own and a set of pictures of two-phoneme words. Also, before beginning, it is important to have read the introduction to this chapter.

**The analysis game**

A child picks a card and names what it depicts. For this example, let us assume that the child chooses a picture of a hair bow. You would repeat the word, but slowly and with a clear pause (about a half-second interval) between its two phonemes (e.g., "*b…ō*"). Then all the children should repeat the word in this same manner, "*b…ō…*." To show that the word *bow* consists of two separate sounds, the teacher now places blocks in two different colors underneath the picture as she enunciates the sound represented by each.

The children then repeat the word sound by sound while representing the sounds of the word, left to right, with their own blocks. The children should repeat the sounds while pointing to the respective blocks and then the word, pausing slightly less between phonemes with each repetition. (e.g., "*b…ō…, bow, b…ō…, bow, b…ō, bow, b-ō…bow*").

**The synthesis game**

This game is just the reverse of the analysis game and likewise requires that you model the procedure before turning it over to the children. Choose a picture and place it face down so the children cannot see it. Then name the picture, phoneme by phoneme (e.g., "*b…ō*"), while placing the blocks beneath the picture. While pointing to their own blocks, the children must repeat the phonemes over and over and faster and faster as they did in the analysis game. When they believe they know the identity of the picture they should raise their hands. The teacher may then ask the group or any individual to name the picture. After resolving any disagreements, the picture is held up for all to see.

After modeling several words in this way, pass the challenge to the children. For each new picture, help them agree on its name and give them time to analyze it on their own. To gain a good sense of who is and is not catching on, ask one or more individuals to share his or her solution to each word. Then the whole group should repeat the solution together, voicing the separate phonemes of the word as they point to their corresponding blocks.

Variations

* Extend the exercise to unpictured words. At the outset of each analysis challenge, be sure to use each word in a sentence for the sake of clarity (e.g., "Chew. Please *chew* your food before you swallow it. Chew.") Similarly, ask the children to use each word in a sentence as part of the wrap-up of each synthesis challenge.
* Later, this game can be used to teach the alphabetic principle by replacing the colored block with letter tokens. If you choose to do so, however, bear in mind that to convey the essential logic of the alphabetic principle, it is best that all words include one letter for each sound, left to right. With this in mind, avoid words with silent letters or digraphs. Use only short vowel words, and, among those, only those that are spelled with two letters (e.g., *in* and *am* are fine, but not *edge* or *itch*).

*Note:* All of the words in the following lists consist of only two phonemes. Nevertheless, due to the vagaries of English, the spellings of many involve more than two letters. For this reason, showing the words' spellings will only confuse the issue for now. The following are examples of two-sound words with initial consonants and long vowels:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| day hay jay may pay ray say way | bee fee gee he knee me pea see she tea we | bye die guy hi lie my pie rye sigh tie why | bow /bō/ doe go hoe low mow no row /rō/ sew /sō/ show toe | boo chew coo do goo moo shoe two who you zoo |

The following are examples of two-sound words with final consonant sounds and long vowels:

|  |  |  |  |
| --- | --- | --- | --- |
| ace ache age aid ail aim ape eight | each ease eat eel | ice | oak oat own |

The following are examples of two-sound words with final consonant sounds and short vowels:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| add am an as ash at | edge Ed | ick if ill in is it itch | odd off on | up us |

Troll talk II: Phonemes

*From chapter 8: Phonemes*

Objective

To reinforce students' ability to synthesize words from their separate phonemes.

Activity

This activity in analogous to that presented in 6E: Troll Talk I: Syllables, [Editor's note: this activity is found in the authors' book] except that the troll describes his treats phoneme by phoneme instead of syllable by syllable. Everyone sits in a circle, and the teacher tells a tale:

Once upon a time, there was a kind, little troll who loved to give people presents. The only catch was that the troll always wanted people to know what their present was before giving it to them. The problem was that the little troll had a very strange way of talking. If he was going to tell a child that the present was a *bike*, he would say "*b–i–k*." Not until the child has guessed what the present was would he be completely happy. Now I will pretend to be the troll. I will name a surprise for one of you. When you figure out what it is, it will be your turn.

Choose one child and pronounce the name of the present, phoneme by phoneme. When the child guesses the word, she or he is to name a present for somebody else. Work up from short (two- and three-sound) words to longer ones as the children become more adept at hearing the sounds. It is best to limit the game to only four or five children on any given day or it becomes a bit long. Examples of gifts include the following:

|  |  |  |  |
| --- | --- | --- | --- |
| ape bean book bow bread brick broom | cheese desk dog dress eel glass ice | moose pan pea pen phone shoe skate | soap stool stump tie train truck |

*Note:* If the students are not familiar with trolls, then substitute another person or creature from folklore such as a leprechaun, unicorn, or elf.

Variation

* Each child gets from one to three "secret" pictures. They may now give the things in the pictures as "presents," one thing at a time, to another child by sounding out the word. The child who receives the present has to guess what it is before she or he can have the picture.

# **How Now Brown Cow: Phoneme Awareness Activities**

http://www.readingrockets.org/article/how-now-brown-cow-phoneme-awareness-activities

By: [Edwin S. Ellis](http://www.readingrockets.org/articles/by-author/60849)

Phonemic awareness training is essential for students who are at risk for reading difficulties. This article describes the components of phonemic awareness and provides activities that special educators can use to provide this training to at risk students.

Research indicates a strong relationship between early phoneme awareness and later reading success, and it links some reading failure to insufficiently developed phoneme awareness skills. Intervention research clearly demonstrates the benefits of explicitly teaching phoneme awareness skills.

Many children at risk for reading failure are in general education classrooms where phoneme awareness training is not part of their reading program. This article presents a set of developmental phoneme awareness training activities that the special educator can integrate collaboratively into existing kindergarten and first-grade reading programs.

## Instructional considerations

Before preparing to conduct phoneme awareness activities in a general education setting, the special educator needs to become familiar with the method being used to teach reading and should observe the class in action.

Most of the phoneme awareness activities should not take more than 15 or 20 minutes to complete and should fit the context of the classroom. Although a particular activity can be selected well in advance, the specific words targeted for phoneme awareness should be selected from material used actively in the class, such as a story or picture book that was just read and discussed, the immediate environment, words fitting a thematic unit being taught, or discussions about a field trip.

Phoneme awareness activities work well in classrooms where teachers implement shared reading. Typically, after previewing the text with the class, the teacher reads aloud a large-print text on a chart or in a big book, the teacher and children read the selection together, and then students complete individual activities related to the selection (Holdaway, 1979). Phoneme awareness activities are a natural extension of the shared reading activities.

To be successful, however, the general educator and special educator must plan ahead for sharing time, space, and teaching together in a collaborative effort. The benefits for the children far outweigh any disadvantages for the teachers. The willingness of the special educator to fit the activities to the contexts of the classroom can help diminish any existing reluctance a general education teacher might have toward phoneme awareness training.

## Specific guidelines

Teachers need to be aware of the developmental requirements of phoneme awareness activities. For example, when teaching children to partition words into parts, segmenting a compound word into its two parts ("What two words do you hear in cowboy?") precedes segmenting syllables and sounds.

Similarly, identification tasks ("Which one doesn't rhyme — cat, hat, sun?") are generally easier than production tasks ("Tell me the first sound in car"). The difficulty level of most activities can be manipulated by changing the input or response modes. For example, "Find the picture that starts with /r/" will be easier than "What sounds do you hear in robe?" A set of guidelines to keep in mind when planning instructional activities is provided below.

### Instructional Guidelines for Planning Phoneme Awareness Activities

1. Identify the precise phoneme awareness task on which you wish to focus and select developmentally appropriate activities for engaging children in the task. Activities should be fun and exciting — "play" with sounds, don't "drill" them.
2. Be sure to use phoneme sounds (represented by / /) and not letter names when doing the activities. Likewise, remember that one sound may be represented by two or more letters. There are only three sounds in the word cheese: /ch/-/ee/-/z/. You may want to target specific sounds/words at first and "practice" beforehand until you are comfortable making them.
3. Continuant sounds (e.g., /m/, /s/, /i/) are easier to manipulate and hear than stop consonants (e.g., /t/, /q/, /p/). When introducing continuants, exaggerate by holding on to them: rrrrrring; for stop consonants, use iteration (rapid repetition): k-k-k-k-katie .
4. When identifying sounds in different positions, the initial position is easiest, followed by the final position, with the medial position being most difficult (e.g., top, pot, setter).
5. When identifying or combining sound sequences, a CV pattern should be used before a VC pattern, followed by a CVC pattern (e.g., pie, egg, red).\*

*\*Note: CV = consonant-vowel; VC = vowel-consonant; CVC = consonant-vowel-consonant*

## Awareness of onset and rime

Phonograms are the common elements in word families (e.g., the letter sequence "and" in sand, hand, band, and land). The initial consonant that changes the meaning of the word is called an onset and the following vowel/consonant combination that remains constant is called a rime. Because an awareness of syllables, onsets, and rimes develops before an awareness of phonemes (Goswami, 1994, p. 36), the first set of suggestions focuses on ways to expose children to word play.

### Literature

A natural and spontaneous way of providing children with exposure to phonemes is to focus on literature that deals playfully with speech sounds through rhymes. Simple rhyme patterns are easily recalled after repeated exposure, and children will get the idea of creating new rhymes.

In There's a Wocket in My Pocket (Seuss, 1974), initial sounds of everyday objects are substituted as a child talks about the strange creatures around the house, such as the "zamp in the lamp." Children can make up their own strange creatures in the classroom such as the "zuk in my book."

Alliteration is the repetition of an initial consonant sound across several words, such as presented in the alphabet book Faint Frogs Feeling Feverish and Other Terrifically Tantalizing Tongue Twisters (Obligato, 1983).

Assonance, the repetition of vowel sounds within words, is often combined with rhyme, as in "It rains and hails and shakes the sails" from Sheep on a Ship (Shaw, 1989) or in humorous ways such as "The tooter tries to tutor two tooters to toot" in Moses Supposes His Toeses Are Roses (Patz, 1983). Some books include music to go with the rhymes, such as Down by the Bay (Raffi, 1987), in which two children try to outdo one another in making up questions that rhyme, such as "Did you ever see a goose kissing a moose?"

Yopp (1995) presented an annotated bibliography of 44 books for young children that deal playfully with language. She also provided guidelines for using these books in class:

1. read and reread the stories;
2. comment on the language use;
3. encourage predictions of sound, word, and sentence patterns;
4. comment on or elicit specific aspects of sound patterns (e.g., "What sound do you hear at the beginning of all those words?"); and
5. be creative in inventing new versions of the language patterns utilized in the stories.

### Word families chart

The exposure to rhymes leads naturally to the use of phonograms and the creation of word family charts. Charts can contain words from one story or a brain-stormed list from the children.

A story that leads naturally to a word family chart is Tog the Dog (Hawkins & Hawkins, 1986), which is constructed so that as each page is turned, a different letter lines up with the rime "og." For example, when Tog takes a jog, the letter "j" lines up with the "og." The children can dictate to the teacher words to be placed on a word family chart. As they begin to develop letter/sound knowledge, they can copy or write the words themselves.

You can use magnetic letters to "create" words for a word family chart. Provide a rime of plastic letters (e.g., at) and have the children take turns placing different letters in the onset position to create new words (e.g., hat, bat, sat, rat). These charts can be used as reference charts (or the children can make their own word families reference book) for spelling and creative writing activities.

### Direct instruction

Children who are struggling with recognizing and creating rhymed words may need more direct intervention. Initial rhyme recognition can be reinforced by direct modeling of instances (nose/rose) and non-instances (bed/car) of rhyming word pairs. The children are then presented other word pairs and asked if the two words sound the same or sound different.

This can be made into a game-like activity by having them respond with a "happy face" card if the words rhyme and a "sad face" card if they don't (or they can use a "thumbs up" and "thumbs down" response). It is important for the teacher to ask a child to repeat the rhyming pairs in this and the following activities to reinforce the verbal production of rhymed words.

Pictures provide visual cues for rhyme recognition and can be used during the modeling phase of instruction. The teacher can then present three pictures and ask the child to select and say the two that rhyme. A variation would be to display two nonrhyming pictures and have the child select the one that rhymes with the word being said by the teacher.

Bradley and Bryant (1983) used an activity called "Odd Word Out," which can be done with or without pictures. Four words, three of which rhyme, are presented by the teacher (e.g., weed, bead, pill, seed). The child determines which word is the odd one that doesn't belong with the others.

The game of concentration or memory is a good practice activity for rhyme recognition. Separate pictures (not printed words) of rhyming word pairs (e.g., cat/bat) are shuffled, and all are placed facedown in a grid pattern. The children take turns turning two cards face-up, trying to match a rhyme pair. If a match is made, the child keeps that pair and takes another turn. If not, the cards are turned facedown and the next child gets a turn.

A summary of activities to heighten awareness of onset and rhyme is offered in the table below.

**Awareness of Onset and Rime**

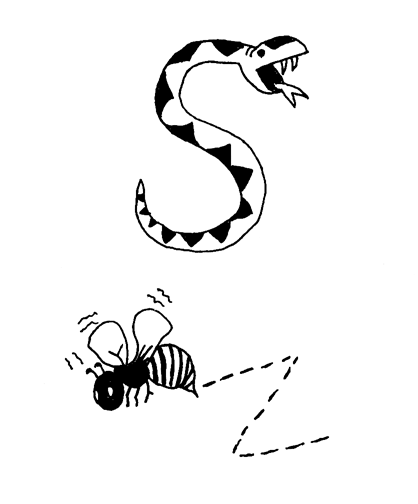
|  |  |  |
| --- | --- | --- |
| **Focus** | **Example** |  |
| Literature | a. Rhyme patterns: | There's a Wocket in My Pocket (Seuss, 1974) |
| b. Alliteration: | Faint Frogs Feeling Feverish and Other Terrifically Tantalizing Tongue Twisters (Obligato, 1983) |
| c. Assonance: | Moses Supposes His Toeses Are Roses (Patz, 1983) |
| Word families chart | a. Phonograms | Create words by adding beginning sounds — /b/ + at = bat  What is another word that sounds like bat?  Use literature — Tog the Dog (Hawkins & Hawkins, 1986  Create individual word family reference books |
| Direct instruction | a. Rhyming word pairs: | Do these sound the same (nose/rose) or different (bed/car) |
| b. Odd word out | Which one doesn't belong? (weed, bead, pill, seed) |
| c. Rhyming word pair concentration | Name the pictures out loud. Find two that rhyme. |

## Simple phonemic awareness

### Isolated sound recognition

As stated by Lewkowicz (1980), "Children should be familiarized with speech sounds in isolation before they attempt to detect sounds within words" (p. 694). Because children are usually unaware that words are made up of individual speech sounds that can be produced in isolation, it is up to the teacher to provide children with a concept of speech sounds.

This is probably best done by associating phonemes with a creature, an action, or an object that is familiar to the child. For example, the phoneme /s/ can be associated with the hissing sound a snake makes — sssssss. A sound personality can be created by calling /s/ the "Sammy snake" sound. Many sounds have natural associations, such as a crowing rooster for /r/, a buzzing bee for /z/, and the "be quiet" sound for /sh/.



*Figure 1. An example of pictures of sound personalities incorporating letter-shape association.*

Sound personalities can be introduced naturally and in context by selecting a particular sound to talk about that is stressed in alphabet or other books that use alliteration. For example, Obligato (1983) presented "smiling snakes sipping strawberry sodas" for the alphabet letter S. It is helpful to create or provide pictures that represent these sound personalities and to post them in the room as each is introduced. A natural connection can sometimes be made between the sound and the letter, such as presenting a picture of "Sammy snake" drawn in the shape of the letter S or "Buzzy bee" flying in a pattern of the letter Z (see Figure 1).

Besides providing a label to facilitate talking about sounds, the pictures provide self-correcting cues for children engaged in initial sound isolation and sound-to-word matching activities.

### Word, syllable, and phoneme counting

Because words and syllables are more salient and more directly perceivable than individual phonemes, activities that involve counting the number of words in a sentence or syllables in a word can be used as initial steps leading to isolated phoneme synthesis and segmentation (Lundberg, Frost, & Peterson, 1988).

Word counting can be done for any sentence selected from a reading or writing lesson. The sentence should be read to the children without being visible. The children listen and place a marker from left to right for each word heard. The teacher can confirm the number of words by showing the printed sentence to the children, pointing to each word as it is read, and having the children touch their tokens in one-to-one correspondence. Or the teacher can reinforce the children's "counting" using auditory input only by repeating the sentence and having them touch each token to confirm the number of words heard.

To count syllables in words, activities can be used such as clapping hands, tapping the desk, or marching in place to the syllables in children's names (Ma-ry), items in the immediate environment (win-dow), or words from a favorite story (wi-shy, wa-shy). Initially, two-syllable words can be targeted, building up to three. Visible, manipulable representation of sounds also helps to clarify and guide counting and segmentation tasks for beginners (Lewkowicz, 1980).

The marker activity used for word counting can be adapted for use in counting syllables by providing each child with two or three horizontally connected boxes drawn on a sheet of paper. The children place a token in each box from left to right as they hear each syllable in a word. These same activities can be used to count sounds in words.

### Sound synthesis

Sound synthesis or sound blending is an essential skill related to later reading ability (Lewkowicz, 1980; Lundberg et al., 1988; Wagner, Torgeson, Laughon, Simmons, & Bashotte, 1993) and one of the easiest phoneme awareness tasks for children to perform (Yopp, 1988).

Sound synthesis can be done using the following sequence: blending an initial sound onto the remainder of a word, followed by blending syllables of a word together, and then blending isolated phonemes into a word.

The teacher can model blending an initial sound onto a word by using the jingle, "It starts with /l/ and it ends with ight, put it together, and it says light." When they have the idea, the children supply the final word.

An element of excitement can be created by using children's names for this activity and asking each child to recognize and say his or her own name when it is presented — "It starts with /b/ and it ends with etsy, put it together and it says ." Context can be provided by limiting the words to objects that can be seen in the room or to words from a particular story the children just read. As the children become proficient, they can take turns using the jingle to present their own words to be blended by the class.

Guessing games that utilize words broken into syllables or isolated phonemes provide fun sound blending activities.

One involves using a puppet (perhaps representing a character from a current reading lesson) who speaks "funny" by saying words syllable-by-syllable or sound-by-sound for the children to figure out. Initial clues can be provided by displaying three pictures, one of which is the word being said by the puppet. The puppet can confirm or negate a student response by picking up the picture and saying the word being segmented: "/f/-/i/-/sh/ — I said fish!"

Another is the familiar "What's in the bag?" activity. Instead of describing what is in the bag, the teacher says the word syllable-by-syllable or sound-by-sound and the children guess the word. A correct response is confirmed when the teacher brings the object out of the bag.

Yopp (1992) suggested the use of song games and presented an example to the tune of "If You're Happy and You Know It, Clap Your Hands":

If you think you know this word, shout it out!  
If you think you know this word, shout it out!  
If you think you know this word,  
Then tell me what you've heard,  
If you think you know this word, shout it out!

The teacher says a segmented word such as /k/-/a/-/t/, and the children respond by saying the blended word (pp. 700-701).

### Sound-to-word matching

Sound-to-word matching is useful as a beginning step in sound segmentation. Basically, sound-to-word matching requires that the child identify the beginning sound of a word.

Awareness of the initial sound in a word can be done by showing the children a picture (dog) and asking the children to identify the correct word out of three: "Is this a /mmm/-og, a /d/d/d/-og, or a /sss/-og?" A variation is to ask if the word has a particular sound: "Is there a /d/ in dog?" This can then be switched to "Which sound does dog start with — /d/, /sh/, or /l/?" This sequence encourages the children to try out the three onsets with the rime to see which one is correct.

It is easiest to use continuants that can be exaggerated and prolonged to heighten the sound input. Iteration should be used with stop consonants to add emphasis.

Yopp (1992) also suggested the use of songs in sound matching activities. One of several examples she presented uses the tune of "Old MacDonald Had a Farm":

What's the sound that starts these words?  
Turtle, time, and teeth.  
(Wait for a response from the children.)  
/t/ is the sound that starts these words:  
Turtle, time, and teeth.  
With a /t/, /t/ here, and a /t/, /t/ there,  
Here a /t/, there a /t/, everywhere a /t/, /t/.  
/t/ is the sound that starts these words:  
Turtle, time, and teeth! (p. 700)

The children might use favorite stories from their reading lessons to identify different sets of three words that start with the same sound to incorporate into the song. Each repeated verse could then emphasize a different sound. The teacher again is cautioned to use the phoneme sounds, not the letter names for these activities.

### Identification of sound positions

Establishing that sounds occur in different positions of words — initial, final, and medial — helps some children with the later task of segmenting whole words into isolated sound components.

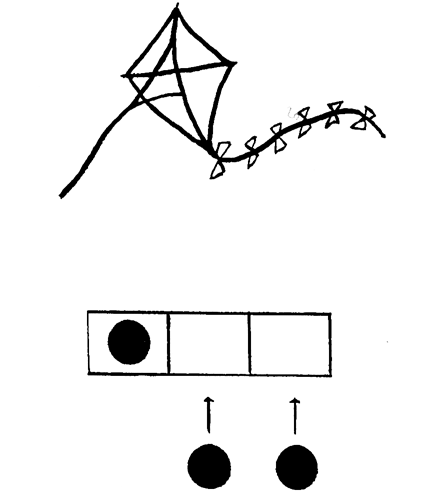
One method of representing sound positions is to display a picture of a train composed of an engine, a passenger car, and a caboose. Three connecting boxes can be drawn under each component: one under the engine, connected to one under the passenger car, connected to the one under the caboose (use poster board and laminate). Explain that words have beginning, middle, and end sounds just like the train has a beginning, a middle, and an end part.

Demonstrate by slowly articulating a CVC (consonant-vowel-consonant word (e.g., /p/-/i/-/g/) and pointing to the box corresponding to the position of each sound in the word. You can then repeat the word and ask the children to identify where they hear the different sounds — "Where do you hear the /g/ in pig?" Slowly articulate other CVC words for them to listen to and have them mark the box under the train that indicates the position of the sound you specify.

### Sound segmentation

Segmenting refers to the act of isolating the sounds in a spoken word by separately pronouncing each one in order (Ball & Blachman, 1991; Spector, 1992; Wagner et al., 1993).

Yopp (1988) stated that segmenting the sounds in a word is one of the more difficult simple phonemic tasks for children to perform. Lewkowicz (1980) and Yopp (1992) suggested starting with isolated productions of initial phonemes as a precursor to segmenting entire words. The previous sound-to-word matching and identification of position activities help in early recognition and practice with initial phonemes.



*Figure 2. An example of Elkonin boxes used for hearing sounds in words.*

Several researchers (Ball & Blachman, 1991; Bradley & Bryant, 1985; Griffith & Olson, 1992; Lewkowicz, 1980) have used visual and tactile cues based on Elkonin boxes (Elkonin, 1973) to help with phoneme segmentation. A card is prepared with a picture of a simple word at the top. Below the picture is a matrix that contains a box for each phoneme (not letter) in the word (see Figure 2).

The teacher models the process by slowing articulating the word phoneme-by-phoneme while pushing a counter into a box for each phoneme. The children can say the word with the teacher while the counters are being placed. Gradually the children should participate in this "say it and move it" (Ball & Blachman, 1991) activity by taking turns placing the counters in each box while saying each sound in a word. Both the matrix and picture can be eliminated over time so that the children are segmenting the word without visual clues.

Words should be selected from familiar text to ensure a whole-to-part sequence of instruction and to provide the children with contextual cues that link word segmentation to everyday classroom lessons.

### Letter-sound association

Many researchers (Ball & Blachman, 1991; Byrne & Field- Barnsley, 1993; Hurford et al., 1994; Iversen & Tunmer, 1993) have demonstrated the advantage of combining phoneme awareness with letter knowledge in a classroom setting. As stated by Griffith and Olson (1992), "The most pedagogically sound method of phoneme awareness training is one that eventually makes explicit the complete letter-to-sound mappings in segmented words" (p. 518).

All phoneme awareness activities that use tokens or other visual representations of sounds can be modified to include letter- sound associations. As individual sounds are mastered by the children, their corresponding letter names can be introduced and placed on the tokens (magnetic letters or Scrabble tiles can be used) and gradually introduced into the segmentation activities.

At first, only one letter or tile should be provided, and the remainder should be blank. After the child has successfully segmented with one letter or tile, others can be added as new letter names are mastered.

To reinforce letter names, Blachman (1991) played "post office" — the children select a picture, say the initial sound of the picture, and identify the letter represented by the first sound by "mailing" it in the appropriate letter pouch.

A modified game of bingo can provide practice in sound-letter association. The desired letters to be emphasized are selected, starting with two or three, and adding more as the children progress. The letters are printed in random order on cards that have 4-by-4 or 5-by-5 grids drawn on them, one card for each child.

The teacher draws from a container letter tiles matching those on the children's cards. The teacher says the phoneme for the letter drawn from the container (replacing it each time) and asks the children to identify the letter corresponding to the phoneme by placing a marker in the appropriate box on their cards. Any child who fills a row or column can then name the letters aloud.

The practice of invented spelling in a classroom can also be used to make explicit connections between sound segments and letters. Children select words they wish to write but don't know how to spell.

A box is drawn for each sound in the word (remember that one sound may be represented by two or more letters — the word shoes, for example, has only three phonemes, /sh/-/oo/-/z/). A child can fill in the letters he or she hears and knows with the teacher's help. The teacher can fill in any letters the child does not know.

A summary of activities for enhancing simple phonemic awareness is presented in the table below.

**Simple Phonemic Awareness**

|  |  |
| --- | --- |
| **Targeted Skill** | **Example** |
| Isolated sound recognition | Sammy snake sound says… (/s/) |
| Word/syllable/phoneme counting | How many (words/syllables/sounds) do you hear in this (sentence/word)? |
| Sound synthesis | It starts with /l/ and ends with ight, put it together and it says… (light) What word am I saying? Put these sounds together to make a word — /f/-/i/-/sh/. |
| Sound-to-word matching | Is there a /k/ in cat? What is the first sound you hear in dog? |
| Identification of sound positions | Where do you hear the /g/ in pig (at the beginning middle or end of the word)? |
| Sound segmentation | What sounds do you hear in the word ball? Say each one. |
| Letter-sound association | What letter goes with the first sound in this word: book? |

## Compound phonemic awareness

### Word-to-word matching

Compound phonemic awareness requires holding a given sound in memory while performing a second operation such as determining whether two words begin with the same sound in a word-to-word matching task (e.g., "Do cup and cake begin the same?"; Yopp, 1988). Byrne (1991) offered several games for practicing word-to-word matching.

1. Make a set of dominoes that have two pictured objects on each card. The children are required to join cards sharing beginning (or ending) sounds.
2. A version of "snap" uses cards having one picture. The children take turns drawing a card from a face-down pile and placing it in a face-up pile. When a newly drawn card has the same beginning (or end) sound as the top card in the face-up pile, the first child to identify the match by saying "snap" collects the pile.
3. Sound bingo uses bingo cards with pictures that children mark if one of their pictures has the same beginning (or end) sound as the word said by the caller.

Each of these games can be related to other classroom activities by having the children make their own dominoes, snap cards, and bingo cards using pictures cut from catalogs or magazines, or hand drawn and laminated. The pictures selected by the children can represent things related to the literature and themes being covered in class.

### Sound deletion

Because sound deletion tasks require manipulation of phonemes in words, they are considered to be more difficult than other types of phoneme awareness tasks.

Cole and Mengler (1994) stated that it is not until a mental age of approximately 7 years that children are able to perform phoneme deletion tasks adequately. Lewkowicz (1980) suggested that sound deletion activities be done after the children exhibit some skill in segmentation and after letter names have been introduced. Because phoneme deletion of medial consonants puts an undue burden on young children's memory, sound deletion should target only initial or final sounds in words.

To introduce the idea of deleting parts of a word, the teacher can show pictures or point to objects in the room that are compound words and demonstrate how each word can be said with a part missing. For example, "This is a seesaw. If I say seesaw without the see, it says saw (give other examples). Now you try it. This is a hotdog. Say hotdog without the dog." An element of fun can be introduced by making it a "Simon says" activity: "Simon says, 'say bookmark without the book.'"

Identification of a missing sound can be accomplished through a "What's missing?" guessing game. The teacher says two words for comparison and asks the children to identify the missing element: "Listen: eat/meat. What's missing in eat that you can hear in meat?"

Final position deletions can be done in the same way (e.g., "What's missing in play that you can hear in plane?"). The children can be encouraged to make up their own "What's missing?" words for the initial position by referring to the phonograms on the word families charts: "What's missing in an that you can hear in pan (man, ran, can)."

Identifying the missing element using phonograms tends to be easier than using unrelated words because the initial consonant determines the meaning of the word for the child and the rime remains constant.

The actual task of deleting a sound from a word can be made easier by building on earlier segmentation practice, playing a game of "sound take-away." The teacher models how to orally segment a word into the "target" sound plus "everything else" and then take the target sound away.

A modified version of the sound blending jingle can be used: "Chair. It starts with /ch/ and it ends with air; take the first sound away, and it says air." The jingle can be used until the children can delete sounds with a simple prompt: "Say ball without the /b/." A sound deletion that results in a "real" word such as deer becoming ear or card becoming car is easier than one resulting in a "nonsense" word such as book becoming ook or sun becoming su (although some children enjoy making "alien" or funny words).

Children who have difficulty with deleting sounds might benefit from visual clues. By placing two colored blocks side-by-side, the teacher can designate one as representing the target sound and the other as representing the remainder of the word: "I'm going to use these blocks to say moon. This (red block) says moo and this (yellow block) says /n/." The child is then asked what the first block says when the second block is removed.

A summary of compound phonemic awareness activities is given in the table below.

**Compound Phonemic Awareness**

|  |  |
| --- | --- |
| **Targeted Skill** | **Example** |
| Word-to-word matching | Do cup and cake begin (end) the same? |
| Sound deletion | Say hotdog without the dog. What sound do you hear in meat that is missing in eat? What word would be left if you take the /n/ off moon? |

## Conclusion

Research has demonstrated not only a predictive relationship between phoneme awareness and reading success, but also a causal relationship. Phoneme awareness that has a positive impact on reading can be developed in children through systematic instruction in kindergarten and first-grade settings. Early training in phoneme awareness should be a priority for those interested in improving early reading instruction and in reducing reading failure.

General and special educators should be supported in their efforts to collaborate on incorporating phoneme awareness activities into kindergarten and first-grade classrooms.

These activities are not intended to replace children's interactions with meaningful language and print, but to be incorporated into classrooms as part of a language-rich environment. Reading aloud, using big books and predictable books, developing language experience charts, and using other language-oriented practices give children valuable reading experiences.

However, by supplementing these experiences with related phoneme awareness activities, general and special educators can draw children's attention to a critical aspect of their language — its phonemic base.

It takes only a few minutes a day to integrate activities that emphasize the sounds of language into the rich, oral language environments we are creating for our children. Those few minutes can result in a lifetime of reading benefits to children who otherwise might not learn to read.