

Teaching the Fundamentals:

Phonemic Awareness, Phonics, Decoding, and Spelling

by Dr. Josefina Villamil Tinajero

EFFECTIVE READING INSTRUCTION must incorporate the most current, scientifically based reading research, such as that reviewed in the National Reading Panel report (2000), as well as other highly regarded reports and research analyses (e.g., Gambrell, Morrow, & Pressley, 2007; Moats, 2000; Snow, Burns, & Griffin, 1998).

These findings show clearly that for striving readers, the content of instruction must be rigorous and the presentation of that content must be direct, systematic and objective.

These findings are reinforced by studies of effective reading teachers, which reveal that the classrooms of these teachers are “characterized by high academic engagement, excellent and positive classroom management, explicit teaching of skills, large amounts of reading and writing, and integration across the curriculum” (Cunningham, 2007, p. 176).

In addition to these sources, the recommendations in this paper are based on reports of research-based best practices for students who are English learners (ELs) (August & Shanahan, 2006).

Teaching Fundamental Skills in Middle School

The National Reading Panel report and other research summaries emphasized the five essential components of reading—phonemic awareness, phonics, fluency, vocabulary, and comprehension. At the middle school grades, teachers often assume that their students have acquired the fundamental skills of phonemic awareness,

phonics, decoding, and spelling in the primary grades. However, some striving readers in middle school need to begin with foundational skills and learn the entire sequence of phonics and decoding skills. Others need support in only a few of the fundamental skill areas.

“Some striving readers in the middle grades need additional support in the fundamental skill areas of phonemic awareness, phonics, decoding, and spelling.”

Teachers may be surprised to realize this—as indicated by these recent comments from experienced teachers in Texas:

“I always thought that teaching phonemic awareness and phonics was something that teachers in the early grades worried about—maybe K through 2nd grade—not 7th grade teachers like me! As I learned more about the kinds of things I could do to help my striving readers, my students began to respond in positive ways. For the first time, I felt that they were making progress—and that I was making a difference.”

“By combining best practices for teaching phonemic awareness and phonics with those of second-language acquisition, for the first

time in my 12-year career as a teacher, I began to see my striving readers thrive.”

Who are the students who need to begin at the beginning? Some students are new arrivals to our schools from countries that may have no written language or a non-Roman alphabet. Some have never been enrolled in school, and others have had interrupted schooling. Still others may have been in the U.S. school system, but have not yet learned basic blending and decoding skills or how to recognize words automatically.

If students are English learners, they need a complete

language and literacy program that develops oral language, vocabulary, and the patterns and structures of English for use in oral and written communication as well as phonemic awareness, phonics, and decoding. In fact, oral language is the foundation of reading proficiency (e.g., Fitzgerald, 1995; Hiebert, Pearson, Taylor, Richardson, & Paris, 1998). Oral language is critical in the development of phonemic awareness because students who are able to recognize large numbers of spoken words can focus more easily on recognizing the individual sounds in those words (e.g., Goswami, 2003). In addition it provides support for students' acquisition of the alphabetic principle: When readers have a large store of words in their oral vocabularies, they are better able to sound out, read, and understand these words when they see them in print (National Reading Panel, 2000).

Not all middle school striving readers, however, will need intensive instruction in all of the fundamental skills. Many students in the middle grades have acquired basic decoding skills but read with difficulty because they struggle with word analysis skills (especially with multisyllabic words) and fluency.

Therefore, teachers of striving readers at these grades should carefully diagnose student needs and provide direct, explicit, and systematic instruction that fills the gaps students have in phonemic awareness, phonics, decoding, and spelling, including the delivery of a complete sequence of the fundamentals, if necessary.

What Skills Make Up the Fundamentals?

Phonemic Awareness and Phonics The ability to hear, identify, and manipulate the individual sounds, or phonemes, in spoken words is known as *phonemic awareness*. *Phonics* refers to the understanding that a predictable relationship exists between phonemes and the spellings that represent those sounds in written language, or the *alphabetic principle* (National Reading Panel, 2000). Students' levels of phonemic awareness and phonics skills both predict initial reading success and relate strongly to their reading success throughout the school years (e.g., Calfee, Lindamood, & Lindamood, 1973; Ehri & Nunes, 2002; Snow et al., 1998).

The research reviewed by the National Reading Panel (2000) indicates that the best method to ensure that readers develop both phonemic awareness and phonics knowledge is to provide them with direct, explicit, and systematic instruction. The basis for effective direct, explicit, systematic instruction is a carefully articulated

and sequential progression of skills that begins with the most basic tasks and moves with appropriate pacing to more difficult tasks. This curriculum is best presented through consistent teaching routines that let students know up front what they are expected to do and learn in specific activities. The teacher clearly models the skills and provides ample structured and guided practice with immediate corrective feedback when needed.

Decoding and Spelling An essential part of phonics and decoding instruction is blending, in which students are explicitly taught how to blend sounds to decode words. Decoding should begin with simple 2- or 3-letter words and then move gradually to more complex words.

As students learn to decode sound/spellings to blend words, they must also learn and practice spelling, or encoding—the process of hearing sounds in words, relating the sounds to their spellings, and writing those spellings to form written words. This encoding process is an essential part of learning the alphabetic system and becoming proficient in its use.

High Frequency Words These are words that occur frequently in running text and have at least one spelling that is not phonetically regular. Students need to recognize these words automatically for fluent reading.

What Is the Role of Decodable Texts?

Decodable texts are passages in which a high percentage of words can be blended by applying the sound/spellings students have been taught. In addition, up to 10%–15% of the words in these texts may be previously taught high frequency words.

As students learn each new sound/spelling, they need ample opportunities to decode words with the new spelling in decodable text. Using a research-based instructional routine for teaching the decodable text gives students multiple experiences reading the text to build fluency and allows teachers to provide immediate corrective feedback.

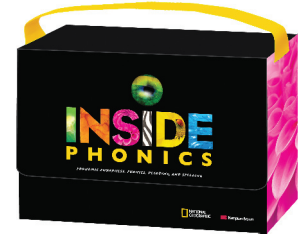
Applying the Research: Inside Language, Literacy, and Content

Placement Proper placement into a program level is the first step in meeting students' needs. The program's Placement Test includes a Phonics Test and a Reading Level Lexile® test. Students first take the Phonics Test. If they do not show mastery of phonics and decoding skills, they are placed in either Level A or Level B of the program, depending on their performance. Here they will receive explicit, systematic instruction in phonemic awareness, phonics and decoding, spelling, and high frequency words throughout the instructional plan.

At these levels *Inside Language, Literacy, and Content* teaches phonemic awareness and phonics skills in a carefully ordered scope and sequence that reflects scientific research findings. This sequence features a strong emphasis at the beginning on blending CVC words with short vowels, and then moves gradually to more difficult skills, including digraphs, long vowels, inflected endings, *r*-controlled vowels, and multisyllabic words. All essential phonics skills are covered.

If students answer 80% or more of the items on the Phonics Test correctly, they will take the Reading Level

Lexile® test to place them into Level C, D, or E of the program according to reading level. Studying the item analysis for the student's performance on the Phonics Test, however, is still helpful in indentifying gaps in decoding, which teachers can fill by selecting appropriate lessons from the *Inside Phonics* kit.



The *Inside Phonics* kit covers all essential skills for use with students at Levels A and B who need sequential instruction in the fundamentals and for use with students at Levels C-E who have gaps to fill.

Instructional Routines *Inside Language, Literacy, and Content* uses research-based reading routines to teach sound/spellings, blending, spelling, high frequency words, and the reading of decodable texts. These routines allow teachers to *scaffold* instruction, first making sure that students grasp the skill, and then gradually shifting and releasing responsibility for completing a task from themselves to students (e.g., Vygotsky, 1978).

Lesson 8A
LANGUAGE AND LITERACY

OBJECTIVES
Learning to Read
• Develop Phonemic Awareness: Isolate Sounds
• Associate Sounds and Spellings: /är/ar/, /ör/or/
• Blend Sounds to Decode Words
Spelling
• Spell Words with R-Controlled Vowels

TEACH AND PRACTICE

- Complete Reading Routine 1 (PD46) to introduce /är/ar/.
- Repeat the routine to introduce /ör/or/.
▶ If students need preteaching, use Reading Routine 2 (PD48).

R-Controlled Vowels /är/ar/, /ör/or/

ar

or

▲ Sound/Spelling Card 37 ▲ Sound/Spelling Card 38

Words with R-Controlled Vowels

ar

or

Look for a pattern and learn new words.

They live on a farm.

Park the car.

The march is part of the celebration.

She works in a hard job.

Cornes started in storm.

Transparency 57

▶ Transparency 57: R-Controlled Vowels
Also available online and on CD

Language Support
Talk through each picture to develop meaning for the words in the yellow boxes. Present the two different meanings of the words in Items 1-3. For example, for Item 1, say: "Look. The people farm, or make, a star (once the star with a finger). Here (point to the second picture) is another meaning of farm. The picture shows three farms, or kinds, of art."

TEACH AND PRACTICE

- Blend Whole Words**
Work through Step 1 of Script 57.
- Spell Words**
Work through Step 2 of Script 57.

READ DECODABLE TEXT

- Use Reading Routine 3 (PD49) to guide students as they read Decodable Passage 3 for *r*-controlled vowels /är/ar/ and /ör/or/.
• Out of Harm's Way, p. 370

Check Understanding Have students read the word lists at the end of the passage.
▶ If students have difficulty decoding the text in the passage, review the steps of Reading Routine 1 (PD46). Have them practice reading individual words in the passage, and then have them reread the entire text.

ON YOUR OWN

When a student's reading indicates understanding, assign the following independent practice.
▶ Practice Book, p. 30

Script 57 Procedure

1. Blend Whole Words
Model Use the top part of the transparency to model whole-word blending and structure the practice for blending the key words.
• Point to the star and say: The word star has three sounds. Listen while I blend the sounds.
• Point to the s. Slide your hand below star as you say: I can blend the three sounds: /s/ /t/ /är/. Now, I'm going to say the whole word: star.
• Repeat, having students blend the word with you. Then have them say the word naturally.
• Use the word in a sentence. Ask students to suggest other sentences with the word.
• Repeat for horn, pointing out that the letters r stand for /ör/.
• Write the words at the right on the board. Have students chorally read each one. Remind them to use whole-word blending.

Practice Guide students through items 1-5. Read the text, pausing before a word with or so that students can blend the sounds as you point to each spelling. Then have students say the whole word as they sweep your hand under it. Read the phrase or sentence with the word.

2. Spell Words
• Say: Star. I see the first star in the sky. Star. Have students repeat the word.
• Have students say: /s/. Help them identify the matching Sound/Spelling Card and the spelling for the sound. Have students write the letter: s.
• Repeat for /t/ and /är/ so that students have spelled the entire word.
• Write the word, and have students compare it to their spelling. Have them circle it if they spelled it incorrectly and then write it correctly.
• Repeat the steps to spell the words at the right.

	/är/ar	/ör/or
1. Tell students: These words have _____ at the end. Say the three words.	car, far, jar	or, for, nor
2. Tell students: These words have _____ in the middle. Say the three words.	park, hard, mark	corn, port, storm
3. Tell students: I will say a word. Listen for _____. If you hear it at the end, raise one hand. If you hear it in the middle, raise both hands. If you don't hear it at all, leave your hands down.	car, tall, star, stand, far, barn, back, park	car, fat, storm, nor, horn, log, sport
Step 2 Introduce the Sound/Spelling		
1. Display the picture-only side of the Sound/Spelling Card. Say the name of the picture. Have students repeat.		
2. Say the target sound. Have students repeat.		
3. Turn the card over. Point to and name the spelling. Have students repeat.	art, barn, star	or, port, for
4. Give examples of words with the sound-spelling in various positions.		
5. Have students say the sound as they write the spelling in the air.		
Step 3 Blend Sound-by-Sound	star	horn
1. Write the spelling of the first sound. Point to it and say the sound. Have students say the sound. Repeat for each sound/spelling before the vowel.		
2. After you write the vowel spelling, blend the sounds through the vowel, sweeping your hand below the spellings. Have students blend the sounds.		
3. If there are additional spellings in the word, repeat the process.		
4. When the word is complete, sweep your hand below it. Have students read it.		
5. Repeat the procedure for other words.	cart, arm, chart	form, horn, sport
Step 4 Spell Sound-by-Sound		
1. Say the word and use it in a sentence. Have students repeat the word.	farm: Cows live on a farm.	cord: Plug in the cord.
2. Guide students to segment the sounds in the word. Then ask: What's the first sound in the word? Guide students to match each sound to a Sound/Spelling Card and identify the spelling. Say: Check the card. What's the spelling? Students may say the spelling and then write it. Repeat until the word is complete.	/f /är/ /m/ f ar m	/k/ /ör/ /d/ c or d
3. Write the word on the board. Ask students to check their spelling of the word.		
4. If a student misspelled the word, have him or her circle the word and write it correctly.		
5. Repeat the procedure for other words.	car	orn

T46a Unit 2 Make a Difference!

Words for Blending

far	fork
car	storm
start	sports
smart	hornet
garden	horse

Words for Spelling

part	orn
start	stork
yard	thorn
march	north

Language and Literacy T46b

Phonics and decoding phonics lessons follow consistent instructional routines based on principles of direct, explicit instruction.

For example, **Reading Routine 1: Introduce Sound Spellings** moves through four steps:

Step 1. Develop Phonemic Awareness

- The teacher models the target sound in a consistent word position (e.g. initial position); students produce the sound.
- The teacher models the sound in another (e.g. final) position; students produce the sound.
- Students listen and show hands to indicate whether they hear the sound and what position they hear it in.

Step 2. Introduce the Sound/Spelling

- The teacher introduces the sound with the Sound/Spelling Card; students repeat the sound.
- The teacher then uses the Sound/Spelling Card to introduce the spelling; students repeat the spelling.
- The teacher gives multiple examples of the sound/spelling in various positions as students say the sound and write the spelling in the air.

Step 3. Blend Sound-by-Sound

- The teacher writes the spelling of the first sound in a word and models the sound; students repeat. This is repeated for each sound up to the vowel.
- The teacher writes the vowel, and then models blending the sounds through the vowel; then students blend the sounds.
- The teacher repeats the process for any additional spellings in the word.
- The teacher models blending the complete word; students blend and read the word.

Step 4. Spell Sound-by-Sound

- The teacher says the word; students repeat it.
- The teacher guides students in segmenting the sounds in the word and matching each sound to its Sound/Spelling Card. Students say each spelling and then write it.
- The teacher writes the correct spelling on the board; students check their spelling and correct it if necessary.

Lesson 10, continued
LANGUAGE AND LITERACY

OBJECTIVES
Learning to Read
• Decode Words
• Recognize High-Frequency Words
Reading Strategy
• Set a Purpose
Literary Analysis
• Use Text Features: Captions
Reading Fluency
• Read with Phrasing
• Read with Accuracy

FOCUS ON READING


1 Set a Purpose
Introduce the kids in the photos and view the map. Discuss what students know about the countries shown. Then read aloud the text in the orange box and use it to set a purpose for reading: Read to find out how the kids in the pictures are helping other kids.

ACTIVE READING

2 Read the Selection
Use the suggestions below to conduct four readings of "Kids Are Helping Kids."

Kind of Reading	Goals
1. Whisper Reading	• Support students as they decode words. • Provide immediate corrective feedback to ensure accuracy.
2. Partner Reading	• Provide intensive feedback for the readers. • Sum up the meaning.
3. Group Reading	• Review genre and discuss text features. • Assess progress for individual students.
4. Choral Reading	• Practice phrasing. • Check understanding.

Kids can help other kids in important ways. Nadja, Hafsat, and Craig show us how.



▲ The kids in this selection come from Canada, Bosnia, and Nigeria.

BUILD FLUENCY

3 Develop Fluency
Phrasing Use the Practice Book to review pauses between phrases and sentences. Then have students listen to the phrasing of the model as they use the new vocabulary.

Fluency Models and Selection Readings CD, Track 2

Pair students to practice reading the selection with appropriate phrasing.

Accuracy and Rate After several practice sessions, arrange for a timed reading. Mark words the student misreads on a copy of the passage and note the last word read in one minute. Calculate the words read correct per minute. Have students graph their performance and set a goal for improving in subsequent timed readings.

Practice Book, p. 30

First Read
Whisper Reading
Listen and Provide Feedback Have students read p. 50 aloud quietly. Monitor students as they read, and listen for misread words. Provide immediate feedback to correct the misread words, and ask students to reread the sentences. If necessary, pronounce these non-decodable selection words for students: *troub*, *rotto*, *strange*.

Summarize Errors and Reread After students read, summarize the common errors you identified. Reread the related Sound/Spelling Cards.

Repeat the Procedure Have students read p. 51.

Discuss Hard Words Have students show you the hard words they found in the selection and tell how they figured out those words.

Second Read
Partner Reading
Read with a Partner If students struggled in the first read, have those students who need extra help read aloud with you.

Discuss Hard Words Have partners tell how they figured out the words.

Summarize the Selection Post these prompts:

1. Who is Nadja? What did she do?
2. Who is Hafsat? What did she do?
3. Who is Craig? What did he do?

Third Read
Group Reading
Review Genre Remind students that this is a biography that gives information and facts about real people and events.

Text Text Features: Captions Point to the captions under each picture. Say: *A caption tells about the picture. Read each caption aloud. Ask students how the caption helps them better understand the photo.*

Assess Individual Progress Call on a student at random to read the first four sentences of the selection. Then call on other students to read the next portions of the selection.

► As you listen to students read, focus on whether they have corrected the common errors you noticed during the first read. If they have not, repeat the corrective feedback.

Fourth Read
Choral Reading
Review Genre Remind students that this is a biography that gives information and facts about real people and events.

Text Text Features: Captions Point to the captions under each picture. Say: *A caption tells about the picture. Read each caption aloud. Ask students how the caption helps them better understand the photo.*

Assess Individual Progress Call on a student at random to read the first four sentences of the selection. Then call on other students to read the next portions of the selection.

► As you listen to students read, focus on whether they have corrected the common errors you noticed during the first read. If they have not, repeat the corrective feedback.

Students apply their skills in decodable passages and Read on Your Own selections. An instructional routine for four readings provides essential practice.

This instructional routine includes the essentials of exemplary phonics instruction: direct, explicit teaching of sound-spellings and the application of this phonics knowledge to blend the sounds together (Shanahan, 2002).

Similarly, high frequency word instruction follows a consistent research-based routine including these steps:

Step 1. Review of previously taught words

Step 2. Introduce new words

- Look at the word
- Listen to the word
- Listen to the word in a sentence
- Say the word
- Spell the word
- Say the word again

Step 3. Practice reading the words

Step 4. Practice spelling the words

After they are taught using this routine, students read texts on their own to develop automaticity in recognizing these high frequency words. The words are then reviewed regularly throughout the instructional plan.

Applying Skills and Developing Automaticity Student books include decodable text selections that are designed to apply phonics, decoding, and high frequency word skills immediately after instruction. These texts are engaging and age appropriate for middle school readers. They are taught using a consistent routine in which students read the text four times, first using whisper reading, then partner reading, then group reading, and finally choral reading with the whole group. Teachers monitor during each reading and provide corrective feedback and other support, including discussion of hard words, teaching text features and genre, summarizing, and practice with phrasing. After several practice sessions, students do a timed reading of the text. The teacher notes misreads and calculates words correct per minute. Students graph their performance and set a personal goal for improvement in subsequent timed readings.

These repeated readings provide essential practice for students in applying phonics and high frequency word skills and in developing automaticity and fluency—a key step on the path to becoming proficient readers.

Conclusion

Some middle school students need intensive intervention in the complete sequence of decoding skills, and others have gaps in their knowledge that need to be filled.

Inside Language, Literacy, and Content provides, through careful placement, appropriate instruction for all students.

Bibliography

August, D., & Shanahan, T. (2006). *Developing literacy in second-language learners*. Cambridge, MA: The MIT Press.

Calfee, R. C., Lindamood, P. E., & Lindamood, C. H. (1973). Acoustic-phonetic skills and reading—kindergarten through 12th grade. *Journal of Educational Psychology*, *64*, 293–298.

Cunningham, P. M. (2007). Best practices in teaching phonological awareness and phonics. In L. B. Gambrell, L. M. Morrow, & M. Pressley (Eds.), *Best practices in literacy instruction* (pp. 159–177). New York: The Guilford Press.

Ehri, L. C., & Nunes, S. R. (2002). The role of phonemic awareness in learning to read. In A. E. Farstrup & S. J. Samuels (Eds.), *What research has to say about reading instruction* (pp. 110–139). Newark, DE: International Reading Association.

Fitzgerald, J. (1995). English-as-a-second-language reading instruction in the United States: A research review. *Journal of Reading Behavior*, *27*, 115–152.

Gambrell, L. B., Morrow, L. M., & Pressley, M. (Eds.) (2007). *Best practices in literacy instruction*. New York: The Guilford Press.

Goswami, U. (2003). Early phonological development and the acquisition of literacy. In S. B. Neuman & D. K. Dickinson (Eds.), *Handbook of early literacy research*. (pp. 111–125). New York: The Guilford Press.

Hiebert, E. H., Pearson, P. D., Taylor, B. M., Richardson, V., & Paris, S. G. (1998). *Every child a reader: Applying reading research in the classroom*. Ann Arbor: University of Michigan, Center for the Improvement of Early Reading Achievement (CIERA).

Moats, L. C. (2000). *Speech to print: Language essentials for teachers*. Baltimore, MD: Paul H. Brookes Publishing.

National Reading Panel (2000). *Teaching children to read: An evidence-based assessment of the scientific research literature on reading and its implications for reading instruction: Reports of the subgroups*. Bethesda, MD: National Institute of Child Health and Human Development, National Institutes of Health.

Shanahan, T. (2002). *The National Reading Panel report: Practical advice for teachers*. Naperville, IL: Learning Point.

Snow, C. E., Burns, M. S., & Griffin, P. (1998). *Preventing reading difficulties in young children*. Report of the National Reading Council. Washington, DC: National Academy Press.

Vygotsky, L. S. (1978). *Mind in society: The development of higher psychological processes*. Cambridge, MA: Harvard University.



**Josefina Villamil
Tinajero, Ph.D.**
University of Texas

Dr. Tinajero specializes in staff development and school-university partnership programs. She is currently Professor of Education and Associate Dean at the University of Texas at El Paso.