

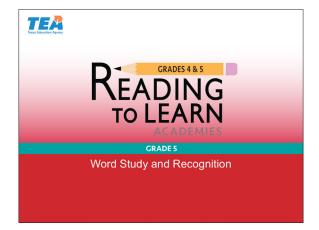
Word Study and Recognition

Participant Notes



GRADE 5

Grade	5 Reading to Learn Aca	demy	



Section Objectives

This section will enhance your knowledge of the following:

- The importance of explicitly teaching decoding and spelling
- Rules and generalizations of the English sound system and spelling patterns
- Effective instructional practices for teaching word study and word recognition
- Activities that provide multiple opportunities for students to practice word study skills

Survey of Knowledge: Word Study and Recognition

- Decoding
 - aing
- Decodable texts
- Phoneme
- Phonology
- Structural analysis
- Morpheme
- Orthography
- Affix
- Grapheme
- · Sight word
- Encoding
- Syllable



 Word Recognition:
One Piece of the Puzzle
"The active processing of sentences and paragraphs cannot occur unless the reader can recognize individual words reliably and efficiently. That is why learning to decode is so important."
— Pressley, 1998, as cited in Stanovich, 2000, p. 208
TEA base faculton Aport
Word Study (Spelling):
Another Piece of the Puzzle
"The correlation between spelling and reading comprehension is high because both depend on a common denominator: proficiency with language. The more deeply and thoroughly a student knows a word, the more likely he or she is to recognize it, spell it, define it, and use it appropriately in speech and writing." — Joshi, Treiman, Carreker, & Moats, 2008-2009, p. 9
What We Know From Research
"Language is a human instinct, but written language is notChildren are wired for sound, but print is an optional accessory that must be painstakingly bolted on. This basic fact about human nature should be the starting point for any discussion of how to teach our children to read and write." — Pinker in McGuiness, 1997, p. ix
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What We Know From Research: Orthographic Mapping

- Students must learn to map sounds to print through the systematic study of orthographic patterns and word parts.
- Such instruction and practice allows students to orthographically map words, which leads to those words becoming sight words.



What We Know From Research: Explicit and Systematic Instruction

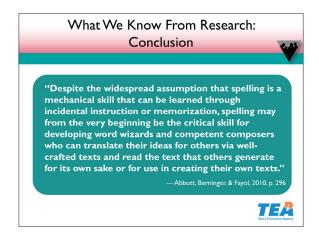
- Explicit, systematic decoding and spelling instruction is significantly more effective than unsystematic instruction or no word-level instruction.
- Systematic instruction and practice improves all students' word recognition and spelling skills.

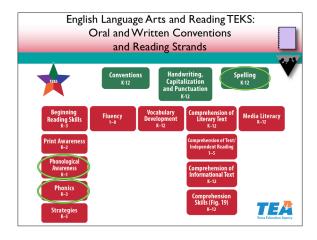


What We Know From Research: Encoding and Decoding

- Integrating encoding (spelling) instruction with decoding (reading) instruction improves students' reading abilities beyond decoding instruction alone.
- Some research demonstrates a relationship between spelling ability and fluent word reading.
- Effective word-study instruction improves both writing and reading.







Word Study and Recognition in Fifth Grade

Review the following skills from fourth grade:

- All types of phoneme-grapheme connections in multisyllabic words
- Advanced orthographic patterns (e.g., doubling consonants, syllable patterns)
- Rules for adding suffixes (e.g., changing y to i, dropping final e)

Provide more extensive instruction and practice with the following:

- Plurals, including irregular ones
- Silent letters, especially in multisyllabic words
- Homophones
- Structural analysis, including base words, prefixes, suffixes, and roots



Principles of Word Study and Recognition

- Phonemes can be represented by a single letter or combination of letters.
- · Some letters can represent more than one sound.
- · Different letters can represent the same sound.
- Where a phoneme or grapheme occurs in a word is often important.
- Different word-reading strategies can be used to read unknown words.
- Orthographic patterns and rules help students to determine pronunciation and spelling.
- Structural analysis based on meaningful word parts can help in reading and spelling words.



Foundational Knowledge: Phonology

- Knowledge of English phonology, or sound system, is crucial to any literacy teacher.
- Understanding the relationships between our sound and print systems lays the foundation for effective word reading and spelling.
- Many students with reading difficulties, including those with dyslexia, have phonological deficits.
- Gaps in phonological development lead to problems with decoding, orthographic mapping, fluency, and comprehension.
- These gaps also lead to problems with spelling and written composition.



Grapheme-Phoneme Knowledge



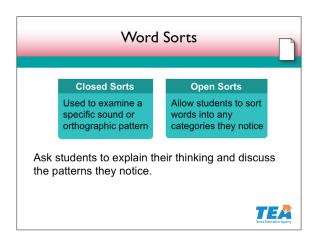
- Grapheme-phoneme knowledge involves learning the common sounds of letters and letter combinations.
- Common graphemes include the following:
 - Single letters (t, b, l, f, s, e)
 - Doublets (mm, tt, ff, II, ss, zz)
 - Consonant digraphs and trigraphs (th, sh, ch, tch, dge)
 - Silent-letter combinations (wr, kn)
 - Vowel digraphs (ee, ai, ou, oi, oo)
- Consonant blends are also common, but each letter represents an individual sound.

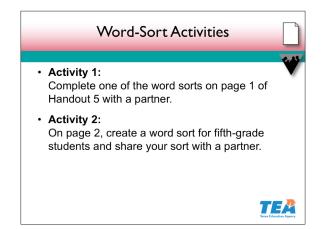
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 Phoneme Position Influences Spelling
The spelling of a sound can depend on whether it is in the middle or end of a syllable. (/ā/ = ai in main vs. ay in may) A sound after a short vowel is often spelled with more than one letter. (ss in dress, dge in edge, tch in watch, ck in duck) These phoneme-grapheme relationships are often influenced by word origin, meaning, or part of speech.
Grapheme Position
Influences Pronunciation Graphemes Graphemes in Graphemes These grapheme-
pronunciation of adjacent graphemes. (c before a, o, or u vs. c before e, i, or y) words represent different sounds from those in single-syllable words. (y in fly) words represent different sounds from those in single-syllable words. (y in faddy vs. y in fly) voiced or unvoiced sounds are often influenced by word origin, meaning, or part of speech.
TEAN LONGION Sparry
Building and Sorting Words
Building Words • Engages students in manipulating letters, letter combinations, syllables, or morphemes to build words • Includes teacher modeling, scaffolding, and guided practice
 Engages students in analyzing words for sounds, orthographic patterns, or morphemes Goes beyond memorizing rules to focus on pattern recognition

Put the following morpheme cards in a pocket chart. re un dis cover try like place elect appear ed Model how to make various words by pulling down morpheme cards to build words (e.g., retry, dislike). Have students see how many words they can make with the cards. To make it more challenging, give students a time limit (e.g., three minutes).





Word and Sentence Dictation

- · Provide initial modeling for the following:
 - Sounding out words to match phonemes with graphemes
 - Counting and thinking about words in sentences, syllables in words, etc.
- · Provide guided practice with immediate feedback.
- · Make sure that students correct misspellings.

Dictation IS teacher-supported, guided practice.
Dictation is NOT a spelling test!



Word-Reading Strategies

- · Decode the sounds in words.
- Recognize and use common spelling patterns, including syllable patterns.
- Use structural analysis.
- Use knowledge of context and syntax to check pronunciation and confirm word meaning.



\	Vhy⊺	Геас	hing	De	codi	ng Is	i lmį	oort	ant
Words	250,000 200,000 150,000	Multi	isyllabi	ic Wor	ds Enc	ounter	ed by C	Grade	
	50,000 0	1	2	3	4 G	5 rade	6	7	8

Orthographic Conventions and Patterns

4.

Orthographic conventions

- Rules govern what we can and cannot do when making words in English.
- Word sorts and word-building activities help students analyze words for patterns based on these conventions.
- Teachers need knowledge of conventions to help students see patterns and to explain the English spelling system.

Orthographic patterns

- Students can learn to read by analogy by using patterns in known words to help read unknown words.
- Students can also apply knowledge of the six syllable types.



Reading By Analogy



- As students build their orthographic knowledge, they can use patterns within known words to read unknown words with similar patterns.
- This strategy should be explicitly taught and modeled.
- Show students how to use the strategy by asking themselves the following:
 - What words do I know that look the same?
 - What words do I know that have the same spelling pattern?



Analogizing in Harry Potter Harry Potter Word "Real" Word for Analogizing apparate muggle quaffle pensieve furnunculus

Common Syllable Patterns
 The six syllable types help students read and spell unknown words, including multisyllabic words. Teach the syllable types explicitly and systematically using word sorts and word-building activities to teach students to look for patterns.
Closed Open Vowel- Digraphs Vowel- Final Consonant-e Diphthongs
TE
Using Syllables in Harry Potter
Harry Potter Word Syllables Hagrid riddikulus dementor Pigwidgeon
Morphemic Analysis
Students analyze meaningful word parts to help read and spell unfamiliar words, including the
following:
• Roots

Using Morphem	es in Harry Potter	
Harry Potter Word	Morphemes	
merpeople		_
quietus		
animagi		
hippogriff		
seeker		
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Using Context and Syntax

- After sounding out an unfamiliar word, teach students to use context and syntax to check word pronunciation and confirm word meaning.
- After sounding out and reading an unfamiliar word, prompt students to ask the following:
 - "Does that sound right?"
 - "Does that make sense?"



Practicing Word-Reading Strategies

- Students need to practice word-reading strategies both in and out of context.
- Students also need to practice these strategies across grouping formats, including the following:
 - Whole group
 - Mixed-ability groups
 - Independent
 - Small groups
- During small-group instruction, model and scaffold word-reading strategies.

Explicit, Systematic Instruction
in Word Study and Recognition
cplicitly teach and model how to read and
ell unfamiliar words.
uild in guided and independent practice with the word-reading and spelling skills.
rovide additional practice for students who need ore support in developing these skills.
ovide students with immediate feedback during actice.
se specific types of scaffolding during reading
d writing activities.
Consider Diversity:
English Language Learners
Liigiisii Laiiguage Leai ileis
ontextualize word study and recognition
struction to promote understanding.
each students how to transfer what they know
their native language to English.
each unique English sounds and letter
mbinations.
TEA
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Word Study and Recognition
Assessments
and reading and decading comments in the
ord-reading and decoding assessments include e following:
Oral reading accuracy
Oral reading accuracy Oral reading fluency
Nonsense-word reading
Sight-word reading
pelling assessments include the following:
Spelling inventories
Dictation checks
Student writing samples
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- · Number off one to five at your tables.
- Using Handout 20, examine page 1 and then:
 - Ones: Examine pages 2-5.
 - Twos: Examine pages 5-9.
 - Threes: Examine pages 9-14.
 - Fours: Examine pages 11-16.
 - Fives: Examine pages 14-19.
- Work with your tablemates to complete Handout 21.



Remember

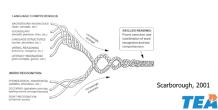
The goal of systematic instruction in word study and recognition is to "enable learners to acquire sufficient knowledge and use of the alphabetic code so that they can make normal progress in learning to read and comprehend written language."

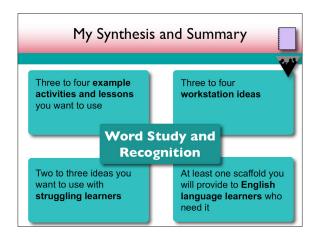
— National Reading Panel 2000 p. 299



The Reading Rope

How do these instructional practices benefit English language learners, struggling students, and gifted students?

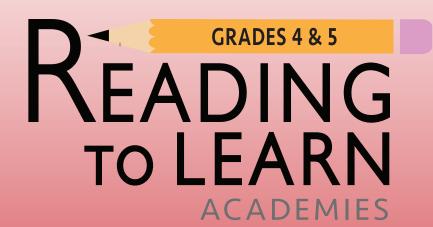






Word Study and Recognition

Handouts



GRADE 5

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Survey of Knowledge: Word Study and Recognition

Match the key concept to its definition by writing the letter in the correct blank.

1 decoding	A. Study of affixes, base words, and roots
2 decodable text	B. Smallest unit of speech sound
3 phoneme	C. Process of converting printed words into their spoken forms by using knowledge of letter-sound correspondences and word structure
4 phonology	D. Smallest meaningful unit of a language
5 structural analysis	E. Writing system for representing language
6 morpheme	F. Letter or letter combination that spells a phoneme
7 orthography	G. A word part or chunk organized around a vowel sound
8 affix	H. Process of producing written symbols for spoken language; also, spelling by sounding out
9 grapheme	I. A language's sound system and the rules that govern it
10 sight word	J. Controlled text in which most of the words are in an accumulating sequence of letter-sound correspondences that students have learned and are learning
11 encoding	K. Morpheme that comes before or after a root or base word to modify its meaning (e.g., prefix, suffix)
12 syllable	L. Word that is recognized automatically when seen

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Grapheme-Phoneme Knowledge

A letter combination is a group of consecutive letters that represent sounds in words. The most common combinations are usually taught first.

For example, the letter combination *ph* appears in a large number of words, but many of these words do not frequently appear in primary texts. On the other hand, *th* appears in many words found in primary texts. Thus, we teach the sound of *th* before we teach the sound of *ph*.

A consonant doublet represents one sound.

These doublets almost always follow short vowels. Examples include the ss in *less*, *tt* in *hitting*, and *ll* in *doll*.

One set of doublets follows what is called the FLOSS rule. This rule states that at the end of a syllable with a short vowel followed by the f, f, or f

A consonant digraph represents a unique sound unlike the sounds of its individual letters.

An example of a consonant digraph is the *sh* in the word *shop*.

When you sound out consonant blends and digraphs, just as with single consonants, do not add an extra schwa sound, such as saying /shuh/ instead of /sh/.

Examples of consonant digraphs in Spanish are the ch in chica, ll in llegar, and rr in carro.

A vowel digraph, or vowel team, is a set of adjacent vowels in the same syllable that represent a single speech sound, including diphthongs (/oi/, /ow/).

Examples of vowel digraphs are the ea in meat, oy in boy, and ow in how.

As with consonants, the sound made by a vowel digraph may vary. For example, the vowel digraph *ou* makes different sounds in *soup*, *could*, and *shout*.

Examples of vowel digraphs in Spanish are the ue in juego and uo in cuota.

A consonant blend (also called a consonant cluster) represents the combined sounds of two or three consonants.

For example, the *bl* in *blue*, *spl* in *splat*, *ft* in *left*, and *nt* in *ant* are consonant blends.

Each letter retains its common sound.

Students learn how to blend the sounds, rather than learning one new sound. Begin with initial blends before moving to final blends and medial blends.

For many students, blending two consonants is easy, but some students require intensive instruction and more opportunities to blend consonants.

In Spanish, consonant blends are called grupos consonánticos. The *fl* in *flecha*, *bl* in *blusa*, *tr* in *trompeta*, and *gr* in *grillo* are grupos consonánticos.

Examples of Letter Combinations

Consonant Doublets	Consonant Digraphs	Vowel Digraphs	Consonant Blends
cli ff	sh ip	s ai l	st op
will	ca sh	play	sc are
fuss	ch air	v ei n	sm ile
fizz	mu ch	ea t	sw ing
ru bb ing	th imble	feet	sl ed
no dd ed	both	c ei ling	bl ue
be gg ar	mo th er	ch ie f	cl am
mu mm y	ph one	monk ey	flower
tu nn el	gra ph	t ie	gl ue
a pp le	lau gh	r oa d	pl ay
error	wh istle	toe	broom
li tt le	ch ef	blow	cry
		too	dr um
		soup	free
		f eu d	tree
		few	gray
		b oo k	de sk
		saw	wa sp
		Au gust	act
		h ea d	go ld
		cow	wolf
		out	mi lk
		b oi l	ju mp
		toy	str ing
			scr eam

Ejemplos de combinaciones de letras en español

Diagrafías (ch, ll, rr)	Diptongos y triptongos	Grupos consonánticos
ch ango	b ai le	bl—blusa, blanco, bloque
ch ica	p au sa, c au sa	fl—flor, flaco, flema
ch orro	p ei ne	cl—clave, clavo
pon ch o	d eu da	gl—gl obo, gl adiador
callado	soy	pl—playa, pluma, plomo
llegar	d ia rio	cr—crema, cromo, crisis, crudo
ll uvia	g ua po	br—broma, brusco, brisa, cabra
carro	f ie sta	tr—tren, trineo, trompo, traje
co rr er	fue	gr—gris, gracias, grueso, grosero
ferrocarril	d io sa	fr—fresa, frito, frambuesa
	c uo ta	pr—premio, primo, promesa
	c iu dad	dr—dragón, drenaje, cuadro
	c ui dado	tl—Tlatelolco, Mazatlán
	caer	
	leer, creer	
	Urug uay , Parag uay	

Adapted from Azurdía, 1998; Carreker, 2005a; Chall & Popp, 1996; Chard & Osborn, 1999; Gunning, 2002.

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Word Study and Recognition Information

General Information Based on Word Origin

The following table lists the spellings by frequency of use.

	General Information Based on Word Origin					
Sound	Spelling(s)	Examples	Information and Rules			
Long- and short- vowel sounds	Short, one- syllable words	sky, sun, hen, do, his, are	Anglo-Saxon in origin Simple, common words originate from Old English, which was viewed as the language of the common person, and Middle English, which was a mixture of Old English and French; pronunciations changed over time, but spellings often did not.			
Long- and short- vowel sounds	Vowel teams, including vowel digraphs	r <u>ea</u> d, n <u>igh</u> t, k <u>ey,</u> h <u>aw</u> k, t <u>oe</u> , br <u>ea</u> d	Anglo-Saxon in origin Pronunciations changed over time, but spellings often did not.			
One sound	Digraphs (ch, sh, th, wh, ck, ng, gh)	su <u>ch,</u> wi <u>th, sh</u> all, <u>wh</u> en, ba <u>ck</u> , si <u>ng</u>	Most Anglo-Saxon in origin The digraph <i>ph</i> (to spell the /f/ sound) and <i>ch</i> (to spell the /k/ sound) are Greek in origin.			
/oi/, /ou/	oi, oy, ow, ou	t <u>oy,</u> s <u>oi</u> l, c <u>ow,</u> l <u>ou</u> d	Diphthongs are Anglo-Saxon in origin.			
	Silent letters	<u>k</u> ni <u>gh</u> t, min <u>e,</u> gnat, <u>gu</u> ess	Anglo-Saxon in origin Many of these letters used to be pronounced. They often do specific jobs. For example, the <i>e</i> in <i>mine</i> marks the <i>i</i> to be long, and the <i>u</i> in <i>guess</i> allows <i>g</i> to be pronounced /g/ when it precedes a vowel (<i>e</i> , <i>i</i> , or <i>y</i>) that would otherwise make it a /j/.			
	Irregular spellings	was, of, love, one	Anglo-Saxon in origin			

General Information Based on Word Origin				
Sound	Spelling(s)	Examples	Information and Rules	
/er/, /ar/, /or/	Vowel-r (er, ur, ir, ar, or, ear, oar, our)	c <u>ar</u> d, h <u>er</u> d, l <u>or</u> d, f <u>ur</u> , h <u>ear</u> d, p <u>our</u>	Anglo-Saxon in origin	
	Six syllable types	Open, closed, VCe, Vr, VV, Cle	Anglo-Saxon in origin	
	Compound words	doghouse, mailman	Anglo-Saxon in origin	
/ū/	ou	s <u>ou</u> p, c <u>ou</u> pon	Norman French in origin	
			Many of our words for food, fashion, relationships, and social ideas derive from Norman French.	
/s/, /j/	ce, ci, cy, ge, gi, gy	pea <u>ce,</u> hu <u>ge,</u> s <u>ci</u> ence	Norman French in origin	
	Special endings (-ette, -elle, -ique, -ine, -ice)	bout <u>ique,</u> bagu <u>ette,</u> nov <u>ice,</u> cuis <u>ine</u>	Norman French in origin	
	Multisyllabic words with roots, prefixes, suffixes	instruction, refer, paternal, reject, designate, aquarium	Latin in origin These are the most predictable spellings and pronunciations; they include many words found in the social sciences, physical sciences, and literature.	
/f/	ph	agora <u>ph</u> obia	Greek in origin	
/k/	ch	<u>ch</u> lorophyll	Greek in origin	
/ĭ/	у	g <u>y</u> mnasium	Greek in origin	
	Words using combining forms	hypnosis, biology, geography, decathlon	Greek in origin These word parts are all considered roots, or combining forms; these terms are used in philosophy, mathematics, science, and medicine.	

Phoneme-Grapheme Connections: Vowel Sounds The following table lists the vowel sound spellings by frequency of use.

	Phoneme-Grapheme Connections: Vowel Sounds			
Sound	Spelling(s)	Examples	Information and Rules	
/ă/	а	h <u>a</u> t	Most often spelled just with <i>a</i> in closed syllable	
/ā/	a, a_e, ai, ay, eigh, ei, ey, ea	b <u>a</u> by, m <u>a</u> d <u>e,</u> m <u>ai</u> d, m <u>ay,</u> w <u>eigh,</u> v <u>ei</u> n, pr <u>ey,</u> st <u>ea</u> k	Most often spelled with <i>a</i> at the end of an open syllable (as in <i>baby</i>) Spelled in the middle of a syllable with <i>a_e</i> or <i>ai</i> Spelled at the end of a syllable with <i>a</i> or <i>ay</i> Spellings <i>eigh</i> , <i>ey</i> , and <i>ea</i> less common	
/ĕ/	e, ea	b <u>e</u> d, br <u>ea</u> th	Most often spelled just with <i>e</i> in closed syllable Can be spelled with <i>ea</i> —for example, in the <i>ead</i> family (e.g., <i>bread</i> , <i>head</i> , <i>lead</i>)	
/ē/	y, e, ee, ea, ei, ie, ey, e_e	prett <u>y,</u> f <u>e</u> ver, m <u>ee</u> t, b <u>ea</u> d, r <u>e</u> ce <u>i</u> ve, p <u>ie</u> ce, k <u>ey,</u> m <u>e</u> t <u>e</u>	Most often spelled with <i>y</i> at the end of a multisyllabic word (like in <i>funny</i>) Also, often spelled with just <i>e</i> at the end of an open syllable (like in <i>me</i> or <i>he</i>) Spelled in the middle of a syllable with <i>ee</i> or <i>ea</i> Spellings <i>ei</i> , <i>ie</i> , <i>ey</i> , and <i>e_e</i> less common	
/ĭ/	i, i_e, y	s <u>i</u> t, <u>gi</u> v <u>e,</u> g <u>v</u> m	Most often spelled just with <i>i</i> in closed syllable Much less often spelled <i>i_e</i> , as in <i>live</i> and <i>give</i> In words of Greek origin, can be spelled <i>y</i>	
/ī/	i_e, i, y, igh, ie, y_e	m <u>i</u> ne, hi, fl <u>y,</u> h <u>igh,</u> t <u>ie,</u> b <u>y</u> t <u>e</u>	Most often spelled with i_e in a VCe syllable or just i at the end of an open syllable Less often spelled y at the end of a single-syllable word Spelled in the middle of a syllable either i_e or igh Spellings ie and y_e less common Also found in a few irregular word families, such as the ind family (e.g., find, bind) and ild family (e.g., wild, child)	

	Phoneme-Grapheme Connections: Vowel Sounds			
Sound	Spelling(s)	Examples	Information and Rules	
/ŏ/	o, a, ough	f <u>o</u> x, sw <u>a</u> p, th <u>ough</u> t	Most often spelled just with <i>o</i> in closed syllable Much less often spelled <i>a</i> , as in <i>swamp</i> or <i>want</i> (often this spelling occurs after <i>w</i> because the /w/ sound affects the sound of <i>a</i>) Very rarely spelled <i>ough</i> (as in <i>bought</i>)	
/ō/	o, o_e, oa, ow, oe, ough	p <u>o</u> tat <u>o,</u> h <u>o</u> p <u>e,</u> s <u>oa</u> p, b <u>ow, o</u> b <u>oe,</u> th <u>ough</u>	Most often spelled with <i>o</i> at the end of an open syllable (like in <i>go</i>) Spelled in the middle of a syllable with <i>o_e</i> or <i>oa</i> Spelled at the end of a syllable with <i>ow</i> (or much less often <i>oe</i> , as in <i>toe</i>) Long <i>o</i> also found in a few irregular word families such as the <i>old</i> family (e.g., <i>cold</i> , <i>bold</i>), <i>ost</i> family (e.g., <i>most</i> , <i>host</i>), and <i>ough</i> family (e.g., <i>though</i> , <i>dough</i>)	
/ŭ/	и, о	h <u>u</u> t, c <u>o</u> ver	Most often spelled just with <i>u</i> in closed syllable The accented short- <i>u</i> sound; the schwa (/ɔ/) is the same sound, but it is found in unaccented syllables	
/ū/	00, u, 0, u_e, 0u, ew, ue, ui	t <u>oo</u> , tr <u>u</u> th, wh <u>o</u> , t <u>u</u> b <u>e</u> , s <u>ou</u> p, ch <u>ew</u> , gl <u>ue</u> , s <u>ui</u> t	Very tricky to spell Most often spelled <i>oo</i> Spelled just with <i>u</i> at the end of an open syllable Spelled in the middle of a syllable <i>u_e</i> or <i>oo</i> Spelled at the end of a syllable <i>ew</i> or <i>ue</i> Spelled in a word of French origin <i>ou</i> or <i>ui</i>	
/aw/	o, al, au, aw	l <u>o</u> st, c <u>al</u> l, p <u>au</u> se, fl <u>aw</u>	Most often spelled <i>o</i> in a closed syllable Also often spelled <i>al</i> or <i>au</i> in the middle of a syllable (as in <i>walk</i> and <i>haunt</i>), unless the syllable ends with <i>n</i> or <i>l</i> (as in <i>pawn</i> or <i>bawl</i>) Spelled <i>aw</i> at the end of a syllable	
/00/	и, 00, 0	p <u>u</u> t, t <u>oo</u> k, w <u>o</u> man	Most often spelled <i>u</i> in a closed syllable Also often spelled <i>oo</i> (e.g., the <i>ook</i> family— <i>book</i> , <i>look</i> , etc.) Much less often spelled <i>o</i>	

	Phoneme-Grapheme Connections: Vowel Sounds			
Sound	Spelling(s)	Examples	Information and Rules	
/yū/	u, u_e, ew	<u>u</u> nite, <u>u</u> s <u>e</u> , <u>few</u>	Actually two sounds but often taught as one sound Different from just long-u sound by itself (contrast chew with few to hear the difference)	
			Most often spelled with <i>u</i> at the end of an open syllable, as in <i>unicorn</i>	
			Also often spelled with u_e in the middle of a syllable	
			Much less often spelled ew at the end of a syllable	
/oi/	oi, oy	<u>oi</u> l, b <u>oy</u>	Most often spelled <i>oi</i> in the middle of a syllable Also spelled <i>oy</i> at the end of a syllable	
/ou/	ou, ow	l <u>ou</u> d, c <u>ow</u>	Most often spelled <i>ou</i> in the middle of a syllable (but if it precedes <i>l</i> or <i>n</i> , can be spelled <i>ow</i> , as in <i>fowl</i> or <i>town</i>)	
			Also spelled ow at the end of a syllable	
/er/	er, or, ar, ir, ur, ear	j <u>er</u> k, od <u>or,</u> cell <u>ar,</u>	Most often spelled <i>er</i>	
		b <u>ir</u> d, b <u>ur</u> p, h <u>ear</u> d	Less often spelled <i>or</i> or <i>ar</i> Much less often spelled <i>ir, ur, or ear</i>	
/ar/	ar, are	c <u>ar</u> t, <u>are</u>	Most often spelled ar	
			Much less often spelled are	
/or/	or, ore	sp <u>or</u> t, c <u>ore</u>	Most often spelled <i>or</i>	
			Much less often spelled <i>ore</i>	
/ə/	o, u, a, i, e, ou	pers <u>o</u> n, circ <u>u</u> s,	Very difficult to spell—helps to know derivations to figure out spelling in multisyllabic words	
		<u>a</u> bout, pan <u>i</u> c, <u>e</u> lect, fam <u>ou</u> s	For example, in <i>definition</i> , the first <i>i</i> makes the /ə/ sound, so it's difficult to figure out. If you know that <i>definition</i> derives from the word <i>define</i> , in which the <i>i</i> makes the long- <i>i</i> sound, you can figure out that you should spell the /ə/ with an <i>i</i> .	
			Spellings of /ə/ used fairly evenly across words—about 10 percent to 25 percent for each spelling	

Phoneme-Grapheme Connections: Consonant Sounds The following table lists the consonant sound spellings by frequency of use.

	Phoneme-Grapheme Connections: Consonant Sounds			
Sound	Spelling(s)	Examples	Information and Rules	
/b/	b, bb	<u>b</u> ig, ni <u>bb</u> le	Almost always spelled just with <i>b</i> Can be spelled with a double <i>b</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>bubble</i> and <i>flabby</i>	
/k/	c, k, ck, ch, que	<u>c</u> ar, <u>k</u> it, si <u>ck,</u> <u>ch</u> emist	Spelled <i>c</i> before <i>a</i> , <i>o</i> , or <i>u</i> Spelled <i>k</i> before <i>e</i> , <i>i</i> , or <i>y</i> Spelled <i>k</i> at the end of a syllable after a long vowel or vowel team (as in <i>seek</i> , <i>book</i> , or <i>make</i>) Spelled <i>k</i> at the end of a syllable after a consonant (as in <i>sink</i> or <i>walk</i>) Spelled <i>ck</i> at the end of a syllable after a short vowel (as in <i>lock</i> or <i>peck</i>) Spelled <i>ch</i> in words of Greek origin (as in <i>chlorophyll</i>) Spelled <i>que</i> in words of French origin (as in <i>boutique</i>) Sounds /k/ + /w/ and /k/ + /s/ have other spellings (<i>qu</i> and <i>x</i>)	
/d/	d, dd, -ed	<u>d</u> og, cu <u>dd</u> le, roar <u>ed</u>	Almost always spelled just with <i>d</i> Can be spelled with a double <i>d</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>fiddle</i> Also spelled with inflectional ending <i>-ed</i> when the base word ends with a voiced sound, as in <i>flowed</i>	

	Phoneme-Grapheme Connections: Consonant Sounds				
Sound	Spelling(s)	Examples	Information and Rules		
/f/	f, ph, ff	fat, phone, muffle, stuff	Most often spelled with just <i>f</i> Spelled <i>ph</i> in words of Greek origin (as in <i>philosophy</i>) Can be spelled with a double <i>f</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>baffle</i> Also spelled <i>ff</i> in a syllable ending with the <i>/f/</i> sound—follows the FLOSS rule (as in the word <i>off</i>)		
/g/	g, gg	got, buggy	Most often spelled with just g Can be spelled with a double g , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in $goggles$ See $/g/ + /z/$ for other spelling (x)		
/h/	h, wh	<u>h</u> ot, <u>wh</u> o	Most often spelled with just <i>h</i> Rarely spelled with other spellings, such as <i>wh</i> (as in <i>whose</i>)		
/j/	ge, j, dge, d, g(i), g(y)	cage, jet, e <u>dge,</u> sol <u>d</u> ier, g <u>i</u> st, gym	Most often spelled <i>ge</i> , especially with a syllable that has a long vowel and ends in /j/ (as in huge and page) Also often spelled <i>j</i> at the beginning of a word Spelled <i>dge</i> at the end of a syllable with a short-vowel sound (as in <i>judge</i> and <i>ridge</i>) Much less often spelled <i>d</i> (usually when it precedes the /y/ sound), <i>gi</i> , or <i>gy</i> No English words end with <i>j</i>		
ΛI	1, 11	<u>l</u> id, fa <u>ll</u>	Most often spelled with just <i>l</i> Also spelled with <i>ll</i> in a syllable ending with the /l/ sound—follows the FLOSS rule (as in will)		

	Phoneme-Grapheme Connections: Consonant Sounds				
Sound	Spelling(s)	Examples	Information and Rules		
/m/	m, mm, mb	hu <u>m,</u> cla <u>mm</u> y, cli <u>mb</u>	Most often spelled with just <i>m</i> Can be spelled with a double <i>m</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>humming</i> Rarely with another spelling, such as <i>mb</i> (as in <i>plumber</i>)		
/n/	n, kn, nn	<u>n</u> o, <u>kn</u> ee, fu <u>nn</u> y	Most often spelled with just <i>n</i> In a few Anglo-Saxon words, spelled with <i>kn</i> Can be spelled with a double <i>n</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>tunnel</i>		
/p/	р, рр	pot, topple	Almost always spelled just with <i>p</i> Can be spelled with a double <i>p</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>sappy</i>		
/k/ +/w/	qu	<u>qu</u> ick	qu represents two sounds, /k/ and /w/ When heard together in a word, most often spelled with qu		
/r/	r, wr	<u>r</u> un, <u>wr</u> ite	Almost always spelled just with <i>r</i> In a few Anglo-Saxon words, spelled with <i>wr</i>		
/s/	s, c(e), c(i), c(y), ss	<u>s</u> eal, ri <u>ce,</u> <u>ci</u> te, <u>cy</u> st, me <u>ss</u>	Usually spelled just with s Can be spelled with a c before e, i, or y Also spelled with ss in a syllable ending with the /s/ sound—follows the FLOSS rule (as in pass)		
/t/	t, tt, -ed	<u>t</u> op, li <u>tt</u> le, gasp <u>ed</u>	Almost always spelled just with <i>t</i> Can be spelled with a double <i>t</i> , specifically in a multisyllabic word to keep a vowel short in a closed syllable, as in <i>potty</i> Also spelled with inflectional ending <i>-ed</i> when the base word ends with an unvoiced sound, as in <i>walked</i>		

Phoneme-Grapheme Connections: Consonant Sounds				
Sound	Spelling(s)	Examples	Information and Rules	
/v/	v, ve	<u>v</u> ery, ha <u>ve</u>	Almost always spelled just with <i>v</i> At the end of a word ending with the /v/ sound, has a silent <i>e</i> (as in <i>love</i> , <i>leave</i> , etc.) No English words end with <i>v</i>	
/w/	w, u	<u>w</u> ork, peng <u>ui</u> n, pers <u>ua</u> de	Almost always spelled just with w Spelled with u in qu (see /k/ + /w/ above) and after g (as in language), and s (as in suede)	
/k/ + /s/ /g/ + /z/	x	e <u>x</u> ercise, e <u>x</u> act	x the only consonant that can represent two sounds in a word After an accented syllable, represents the sounds	
			/k/ + /s/ (box) Before an accented syllable, represents the sounds $/g/ + /z/$ (exist)	
/y/	i, y	on <u>i</u> on, <u>y</u> es	/y/ sound almost evenly represented by <i>i</i> (55 percent) and <i>y</i> (44 percent)	
/z/	s, z, es, x, zz	wa <u>s, z</u> ero, fli <u>es,</u> <u>x</u> ylophone, bu <u>zz</u>	Most often spelled with s (especially in Anglo-Saxon words, such as his, is, has) Spelled with inflectional ending -s when the base word ends with a voiced sound, as in flows	
			Spelled with inflectional ending <i>-es</i> (as in <i>foxes</i>) Spelled <i>x</i> in words of Greek origin (as in <i>xenophobia</i>)	
			Also spelled with zz in a syllable ending with the /z/ sound—follows the FLOSS rule (as in the word jazz)	
/th/	th	<u>th</u> ank	Unvoiced /th/ always spelled th	
<u>/th</u> /	th	<u>th</u> is	Voiced /th/ always spelled th	

Phoneme-Grapheme Connections: Consonant Sounds				
Sound	Spelling(s)	Examples	Information and Rules	
/sh/	ti, sh, ci, ss, ch	ac <u>ti</u> on, <u>sh</u> ed, spe <u>ci</u> al, pa <u>ss</u> ion, a <u>ss</u> ure, <u>ch</u> ef	More than half of /sh/ sounds spelled <i>ti</i> , as in the syllable <i>tion</i> 26 percent spelled <i>sh</i> The rest divided across several other spellings— <i>ci</i> , ss, si, sc, s, ch Spelled <i>ch</i> in words of French origin (as in <i>chagrin</i>)	
/zh/	si, s, ge, z	vi <u>si</u> on, mea <u>s</u> ure, garag <u>e,</u> sei <u>z</u> ure	Half of /zh/ sounds spelled si, as in suffix -sion Another third spelled s, as in suffix -sure Spelled ge in words of French origin (as in rouge) Less often spelled z, as in suffix -zure	
/ch/	ch, t, tch	<u>ch</u> air, adven <u>t</u> ure, wa <u>tch</u>	More than half of /ch/ sounds spelled <i>ch</i> , including at the end of a syllable following vowel team or consonant (as in <i>each</i> or <i>bench</i> ; exceptions include <i>such</i> and <i>which</i>) Another third spelled <i>t</i> , as in suffix <i>-ture</i> Spelled <i>tch</i> at the end of syllable following short vowel (as in <i>witch</i>)	
/wh/	wh	<u>wh</u> ite	Unvoiced /wh/ always spelled wh Sound almost lost in American English due to most dialects pronouncing this spelling as /w/	
/ng/	ng, n	si <u>ng,</u> mo <u>n</u> key, E <u>ng</u> lish	Spelled ng at the end of syllable Spelled n when before /k/ or /g/ (as in sink or language)	

Letter Patterns and Morphemes

The following table lists complex orthographic patterns and morphemes (meaning units).

Letter Patterns and Morphemes				
Rule or Topic	Explanation and Examples			
No words end with <i>j</i> or v.	If a word ends in /j/, spell it with <i>ge</i> (following long vowel) or <i>dge</i> (following short vowel). If a word ends in /v/, put a silent <i>e</i> after the <i>v</i> (as in <i>dove</i> and <i>live</i>).			
Add extra letters (consonants) after short vowels.	This is why we use spellings such as ck , dge , tch , and x (which stands for two consonant sounds) after short vowels. It's also why we double consonants when adding endings (as in <i>mopping</i> and <i>rubbed</i>).			
The letter e has a lot of jobs.	Used to make short-e sound in closed syllables Used to make long-e sound in open syllables Used to make long-e sound in vowel teams such as ee and ea Used to mark long vowels in VCe words (as in lake and note) Used to mark the soft-c and soft-g sounds (as in cease and page) Keeps words from ending in v (as in have and believe) Keeps words from looking plural (as in horse, house, and please) Used to mark the voiced /th/ in verbs (as in breathe and teethe)			
Soft <i>c</i> and soft <i>g</i> follow specific rules.	French in origin c makes /s/ sound when followed by e, i, or y g makes /j/ sound when followed by e, i, or y			
The letter <i>u</i> acts as interloper.	We put a silent <i>u</i> after <i>g</i> to keep it from changing to the soft sound /j/ (as in <i>guest</i> and <i>guide</i>).			
Some word families don't follow the rule of closed syllables and short vowels.	 Examples: find, bind, kind, rind, hind, mind most, ghost, post, provost wild, mild, child old, cold, sold, told, mold 			

Letter Patterns and Morphemes				
Rule or Topic	Explanation and Examples			
Six syllable types	Closed syllable: Vowel closed off by consonant to make it short (music)			
	VCe: Silent-e makes vowel say long sound (like)			
	Open syllable: Vowel not closed off by a consonant, so it is long (music)			
	Vowel team: Includes those that spell long-vowel sounds (<i>meet</i>), short-vowel sounds (<i>bread</i>), and diphthongs (<i>cow</i>)			
	Vowel-r: Includes those with one vowel (car) or two vowels (heart)			
	Stable final syllable: Cle—final syllable with a consonant followed by le, such as in little (other examples include tion and ture, as in station and adventure)			
Syllable division, VC-CV: Two consonants between two vowels	When syllables have two adjacent consonants between them, divide between the consonants. The first syllable is closed (with short-vowel sound), as in <i>mid-dle</i> and <i>tem-per</i> .			
Syllable division, V-CV and VC-V: One consonant	First try dividing before the consonant, which makes the first syllable open (with a long-vowel sound). This method works 66 percent to 75 percent of the time (e.g., e-ven).			
between two vowels	If you don't recognize the word, divide after the consonant, which makes the first syllable closed (with a short-vowel sound). This method works 25 percent to 33 percent of the time (e.g., ev-er).			
Syllable division: Consonant blends and digraphs	Consonant blends and digraphs stick together. Do not separate them, as in <i>crust-y</i> and <i>moth-er</i> .			
Accenting	Accent first word of an Anglo-Saxon compounds (<i>catfish</i>).			
	Accent root word in a Latin-based words (instruction).			
	Accent syllable before tion (production).			
	Accent first syllable to make a noun and accent second syllable to make a verb (<i>present</i> vs. <i>present</i>).			

Letter Patterns and Morphemes		
Rule or Topic	Explanation and Examples	
Adding endings: Consonant doubling	When a one-syllable word with one vowel ends with one consonant, double the final consonant before adding a suffix that begins with a vowel (fit, fittest). Do not double if the suffix begins with a consonant (ship, shipment). In multisyllabic words, double the final consonant if the last syllable is accented (repelled). If it is not accented, do not double the consonant (canceling).	
Adding endings: Drop silent <i>e</i>	When a base word ends in silent <i>e</i> , drop the <i>e</i> when adding a suffix that begins with a vowel (<i>like</i> , <i>liking</i>). Keep the <i>e</i> before a suffix that begins with a consonant (<i>shame</i> , <i>shameless</i>).	
Adding endings: Change y to i	When a base word ends in <i>y</i> preceded by a consonant, change the <i>y</i> to <i>i</i> before a suffix (except -ing; ruby, rubies). If a base word ends in <i>y</i> preceded by a vowel (e.g., ay), just add the suffix (pray, praying). Note that <i>y</i> changes to <i>i</i> even if the suffix begins with a consonant (busy, business).	
Inflectional endings	Anglo-Saxon in origin and do not change a word's part of speech (e.g., -s, -es, -ed, -ing, -er, -est)	
Three sounds of -ed	Makes the /əd/ sound when base word ends in <i>d</i> or <i>t</i> (<i>beaded</i> or <i>panted</i>) Makes the /d/ sound when base word ends in voiced sound (<i>canned</i>) Makes the /t/ sound when base word ends in unvoiced sound (<i>fixed</i>)	
Three sounds of plural (-s or -es)	Makes the /z/ sound when base word ends in voiced sound (<i>moves</i>) Makes the /s/ sound when base word ends in unvoiced sound (<i>sticks</i>) Add -es and make the /əz/ sound when based word ends with /s/, /z/, /j/, /ch/, /sh/, or /zh/ (<i>kisses</i> , <i>buzzes</i> , <i>edges</i> , <i>witches</i> , <i>hushes</i> , <i>garages</i>)	
Derivational prefixes and suffixes	Prefix: Often Latin in origin and changes a word's meaning (benevolent, malevolent) Suffix: Often Latin in origin and can change a word's meaning (hopeful, hopeless) and/or part of speech (nature, natural, naturalize, naturalistic)	

Morphemes

Most Common Prefixes	Most Common Suffixes		atin and Greek Roots 00,000 multisyllabic words)
un-	-S	duct	ten
re-	-es	fic	tain
dis-	-ed	fer	tim
in-	-ing	tent	sist
mis-	-er	tend	sta
fore-	-or	tens	stat
de-	-hood	mit	stit
pre-	-ion	miss	pon
a-	-ship	сар	pose
	-y	ceit	pound
	-ible	ceive	plic
	-able	сер	ply
		cept	graph
		cip	ology

Adapted from Ebbers, 2011; Henry, 2010; Moats, 2009; Venezky, 1999.

Ejemplos de reglas ortográficas para el español

This handout presents a sample of the orthographic rules for the Spanish language.

Reglas básicas para la letra B		
Reglas	Ejemplos	
Se escribe <i>b</i> después de <i>m</i>	tambor, septiembre, mambo, cambio	
Las sílabas que empiezan con br y bl se escriben con b :	brazo, sobre, blusa, pueblo, sombrero	
Se escriben con <i>b</i> los verbos terminados en <i>bir</i> (excepción <i>vivir, hervir, servir</i> y sus compuestos)	escribir, recibir, subir, percibir, prohibir	
Se escriben con <i>b</i> las palabras con los siguiente sufijos y prefijos <i>bio</i> , <i>biblio</i> , <i>sub</i> , <i>bilidad</i> , <i>bundo/a</i> , <i>bi</i> , <i>bis</i> , y <i>biz</i>	bio: microbio, biología, biomecánico biblio: biblioteca, bibliografía sub: subterránea, subsistir bilidad: habilidad, amabilidad bundo/a: vagabundo, moribundo bi, bis, biz: bimotor, bisabuelo, bizcocho	

Reglas básicas para la letra V		
Reglas	Ejemplos	
Se escribe <i>v</i> después de las letras <i>d</i> y <i>n</i>	adviento, envidia, invento	
Se escriben con <i>v</i> los adjetivos terminados en -ava, -avo, -eva, -eve, -evo, -iva, -ive, e -ivo	adictivo, octavo, reactiva	
Se escriben con v las palabras que empiezan con villa y vice (excepto bíceps y billar)	villano, villancico, vicepresidente	
Se escriben con v las palabras que empiezan por eva, eve, evo, y evi (excepto ebanista y ébano)	evento, evacuar, evitar, evolución	

Reglas básicas para la letra C		
Reglas	Ejemplos	
Se escriben con <i>c</i> las terminaciones <i>-cito</i> , <i>-cita</i> , <i>-cillo</i> , <i>-cilla</i> , <i>-cecillo</i>	pedacito, nochecita, manecilla, pececillo, lucecilla	
Palabras que en singular terminan con z , el plural se escribe con c	pez-peces, luz-luces, lápiz-lápices	
Se escriben con c los verbos que terminen en -cer, -ceder, -cir, -cendir, -cibir, -cidir (excepto asir y coser)	cocer, conceder, decir, recibir	

Reglas básicas para la letra G		
Reglas	Ejemplos	
Se escribe con g el prefijo geo	geografía, geometría	
Se escriben con g las conjugaciones de los verbos que terminan en ger, gir (excepto tejer y crujir)	recoger – recogí, recogieron, recogerás exagerar, emerger, proteger, dirigir	
Se escriben con g el conjunto de letras gen (excepto avejentar, berejena, ajeno)	gente, imagen, gentil, general, agente	
Se escriben con g el conjunto de letras gio, gia, gión, gía	regia, plagio, región, morfología, fonología, biología	

Reglas de acentuación en español

Las palabras en español de dos o más sílabas tienen una sílaba que es la que se pronuncia más fuerte o la que tiene una mayor intensidad al decir la palabra. Esta sílaba se llama la **sílaba tónica**. La sílaba tónica puede o no llevar un acento escrito o tilde en una de las vocales de esa sílaba, por ejemplo:

cárcel sílaba tónica: cár camiseta sílaba tónica: se pantalón sílaba tónica: lón

Para saber cuándo poner acento escrito en una sílaba tónica de una palabra, se tiene que saber en que posición se encuentra la sílaba tónica y aplicar unas simples reglas.

La sílaba tónica puede ser la **última**, la **penúltima**, o la **antepenúltima** sílaba de una palabra. Si la sílaba tónica es la última, la palabra es **aguda**. Si la sílaba tónica es la penúltima, la palabra es **grave**. Si la sílaba tónica es la antepenúltima, la palabra es **esdrújula**.

Palabra	Sílaba tónica es la antepenúltima sílaba	Sílaba tónica es la penúltima sílaba	Sílaba tónica es la última sílaba	Tipo
azul		а	zul	aguda
camión		са	mión	aguda
maceta	ma	ce	ta	grave
cárcel		cár	cel	grave
cámara	cá	ma	ra	esdrújula
hígado	hí	ga	do	esdrújula

Como se puede ver en los ejemplos, las palabras agudas y graves pueden llevar o no acento escrito. Las palabras esdrújulas siempre llevan acento escrito. Las siguientes reglas nos ayudan a saber cuando una palabra aguda o grave lleva acento escrito.

Palabras agudas

En una palabra aguda, la sílaba tónica es la última. Una palabra aguda lleva acento escrito si termina en vocal, *n* o *s*.

pa -pel	des -pués
na- ri z	co-ra- zón
re- loj	in-te -rés
ca-li- dad	ca- fé

Palabras graves

En una palabra grave, la sílaba tónica es la penúltima. Una palabra grave lleva acento escrito cuando \mathbf{no} termina en vocal, n o s.

a-ma-da cár-cel
ca-mi-se-ta lá-piz
com-pu-ta-do-ra án-gel
dul-ce ca-rác-ter

Excepciones: Las palabras que terminan en diptongos *-ía* o *-ío* son palabras graves que llevan acento escrito aún cuando terminan en vocal:

mí-a mí-o bio-gra-fí-a ti-o li-bre-rí-a ca-se-rí-o

Palabras esdrújulas

En una palabra esdrújula, la sílaba tónica es la antepenúltima. Una palabra esdrújula siempre lleva acento escrito:

Mé xico	úl timo	hí gado	rá pido
cá mara	má gico	e xá menes	lá tigo
pé talo	sím bolo	ta rán tula	más cara
cír culo	lá grima	sá bado	cá lido

	Reglas de acentuación			
Sílaba tónica	Antepenúltima	Penúltima	Última	
Acento escrito cuando			Aguda La palabra termina en <i>n</i> , <i>s</i> , vocal. camión, José, atún	
Acento escrito cuando		Grave La palabra no termina en <i>n</i> , s, vocal <i>mármol</i> , <i>árbol</i>		
Acento escrito cuando	Esdrújula Siempre lleva acento escrito exámenes, México, lámpara			

Pasos para decidir si una palabra lleva acento o no

1. Dividir la palabra en sílabas.

La palabra es camioneta: ca — mio — ne — ta

- 2. Encontrar la sílaba tónica en la palabra: ¿Es la última? ¿La penúltima? ¿La antepenúltima? La sílaba tónica es la penúltima: ca mio ne ta.
- 3. Decidir qué tipo de palabra es: ¿La palabra es aguda, grave, o esdrújula? La palabra *camioneta* es grave.
- 4. Decidir si esta palabra lleva acento escrito o no.

Una palabra grave lleva acento cuando **no** termina en vocal, *n* o *s*. La palabra *camioneta* termina en vocal, entonces esta palabra no lleva acento escrito.

Decidir si una palabra lleva acento o no – ejemplo		
Pasos	Palabra	
1. Dividir la palabra en sílabas.	la — pi — ces	
2. Encontrar la sílaba tónica en la palabra.	antepenúltima penúltima última	
3. Decidir qué tipo de palabra es.	esdrújula grave aguda	
4. Decidir si esta palabra lleva acento escrito o no.	lápices	

Una versión en blanco para usarse en clase:

Decidir si una palabra lleva acento o no		
Pasos	Palabra	
1. Dividir la palabra en sílabas.		
2. Encontrar la sílaba tónica en la palabra.	antepenúltima penúltima última	
3. Decidir qué tipo de palabra es.	esdrújula grave aguda	
4. Decidir si esta palabra lleva acento escrito o no.		

Pautas para la instrucción

Los estudiantes deben saber cómo dividir una palabra en sílabas y cómo identificar la sílaba tónica. Los estudiantes de 3er, 4to, y 5to año deberán practicar mucho la separación de palabras en sílabas y la identificación de la sílaba tónica.

Una vez que estas dos habilidades han sido desarrolladas, los estudiantes deberán aprender y aplicar las reglas de acentuación. Apoye este aprendizaje al hacer un póster con las reglas que los estudiantes puedan ver y utilizar.

Examples of Word Sorts

Word sorts are activities that provide students opportunities to examine words and categorize them by spelling patterns and/or sounds.

Closed Sorts

Choose the categories and model the sorting procedure.

Example: Present the three categories, read the three words, and place them in the correct column. Then ask students to sort the remaining words.

spec/spect	stru/struct	sect
inspect	structure	section

Other words: spectacles, spectator, spectacle, instruction, construct, destruct, insect, intersect, sector.

You may build in the category without actually giving students a category name and let them discover the orthographic or morphological patterns.

For example, students work on open versus closed syllables. Have students notice the pattern of having a single consonant after an open syllable versus two consonants after a closed syllable by using a word sort. The words to be sorted might include *music*, *title*, *little*, *even*, *total*, *puzzle*, *simple*, *pattern*, *final*, and *pencil*.

Open Sorts

Students organize sets of words into categories based on what they notice about the words.

Open sorts are most effective after students have had many opportunities with closed sorts and understand the concept of sorting.

Observe the categories individual students create. This information may provide you with valuable information about a student's understanding of the orthography and morphology of the English language.

Word sorts can be designed to focus on a single new concept or can be used for a review with mixed concepts. For example, if students know the prefixes *in-* and *re-*, you can create a sort containing words with those prefixes plus the new suffixes *-ion* and *-able*.

As students begin to understand the complexities of syllables and morphemes, they may be asked to do two-step word sorts. First, they sort by syllables and then for morphemes.

For example, in step one, students sort by syllable.

Open first syllable	Closed first syllable
prehistoric	undone
provide	incredible
preview	contrast
reconnect	unbelievable
protect	compare
remake	incapable

In step two, students sort for meaning.

pre-	<u>re-</u>	pro-	<u>un-</u>	<u>in-</u>	com-
prehistoric	remake	provide	undone	incredible	compare
preview	reconnect	protect	unbelievable	incapable	contrast

Word sorts can be adjusted for students identified with or at risk for dyslexia or other reading difficulties by choosing known words, keeping the sorts focused on a single new category, and providing more modeling.

Word Hunts

These are helpful extensions to word sorts that allow students to find other words in their reading that contain the same spelling patterns and sounds.

Encourage students to identify exceptions, which may lead to understanding that exceptions may have commonalties.

For example *believe*, *conceive*, and *protective* are exceptions to the VCe pattern but have a common v that creates a new common spelling pattern (putting a silent e at the end of a word to keep it from ending with a v).

Adapted from Bear, Invernizzi, Templeton, & Johnston, 2012; Ganske, 2000.

Examples of Word Sorts in Spanish

Word sorts are activities that provide students opportunities to examine words and categorize them by spelling patterns and/or sounds.

Closed Sorts

Choose the categories and model the sorting procedure.

Example: Present the three categories, read the three words, and place them in the correct column. Then ask students to sort the remaining words. In Spanish, students can sort by the different combinations in which the letter *g* can be present.

gue	gui	<u>ae</u>	<u>gi</u>
guerra	guisante	geranio	gitano
ceguera	guitarra	general	gigante

Other words: lánguido, guerrero, gente, legislatura.

You may build the category without actually giving students a category name and let them discover the common spelling patterns or sounds. For example, write 10 words with the suffix -ción and let students identify the name for that category: Palabras con -ción.

Students can sort by prefixes or suffixes:

<u>-ísimo/a</u>	<u>trans-</u>	bi-	<u>-ito/a</u>
bellísimo	transporte	bimestral	cafecito
carísimo	transbordar	bisilábico	casita
hermosísimo	translúcido	bipolar	pollito

As students begin to recognize specific spelling patterns, they may be asked to do two-step word sorts.

For example, in step one, students sort for initial sound.

g suave /j/	g fuerte /g/
gemelo	golpe
gigante	gusano
gelatina	guerra
girasol	gansa
genio	guisante

In step two, students sort for initial syllable.

<u>gi</u>	ge	<u>gui</u>	gue
gigante	gemelo	guisante	guerra
girasol	genio		
	gelatina		

Adapted from Bear, Invernizzi, Templeton, & Johnston, 2012; Ganske, 2000.

Sample Word Sorts

Sort these words by the sound that c makes.

boycott	science	cyst
custom	graceful	incapable
century	helicopter	cinnamon
scarcity	infancy	scuba

- When does *c* make the /k/ sound?
- When does *c* make the /s/ sound?

Sort the following words by the sound(s) that -ed makes.

packed	roared	panted
crooked	handed	walked
hissed	hushed	crawled
bombed	punched	herded
moaned	pasted	grunted

- Why does -ed make different sounds at the end of different past-tense verbs?
- There is one exception to the rule. Identify and explain this exception.

My Word Sort

Orthographic or morphological knowledge to be taught or practiced:		
Words to use:		
vvolus to use.		
Questions to ask students about categories:		
Adapted from Boar Invernizzi Templeton & Johnston 2012: Mosts 2009b		
Adapted from Bear, Invernizzi, Templeton, & Johnston, 2012; Moats, 2009b.		

Sample Dictation Routine

Word Dictation

Teacher: Pencils down. Eyes on me. Please draw two lines on your paper. We will write a word on each of these lines. The first word is *student*. What word?

Students: Student.

Teacher: Think about the sounds you hear in the word *student*. Listen as I model the process for you. *Student:* /s//t//t//t//t/. There are seven sounds in the word *student*. The first sound is /s/. We have learned that /s/ can be spelled s, ce, or ci. I know that in *student*, the /s/ sound comes at the beginning of the word and has a consonant right after it, so it must be spelled with an s.

Model writing the "s" on the first line.

Teacher: Write the letter *s* on the first line of your paper. The next sound is /t/. The letter that makes the /t/ sound is *t*.

Model writing the "t" next to the "s."

Teacher: Write the letter t. The next sound is \sqrt{u} . This sound has several spellings. In this word, the sound is heard at the end of the first syllable, which is an open syllable, so it is spelled with the letter u.

Model writing the "u."

Teacher: Write the letter u. The next sound is d. The letter that makes the d sound is d.

Model writing the "d."

Teacher: Write the letter d. The next sound is $\langle E' \rangle$. The letter that makes the $\langle E' \rangle$ sound is e.

Model writing the "e."

Teacher: Write the letter e. The next sound is /n/. There is more than one spelling for /n/, but I know this sound is most often spelled with the letter n. So the letter that makes the /n/ sound in the word *student* is n.

Model writing the "n."

Teacher: Write the letter *n*. The next sound is /t/. The letter that makes the /t/ sound is t.

Model writing the "t" as the final letter of the word on the first line.

Teacher: Write the letter *t*. The second word is *support*. Think about the sounds you hear in the word *support*.

Provide three to five seconds of think time.

Teacher: Now, write the word *support* on the second line.

Allow time for students to write the word. Provide scaffolds as needed. Check the spelling of the word by identifying the spelling of each sound. Have students put a dot above each spelling they got correct. Have students circle incorrect spellings and rewrite the entire word.

Sentence Dictation

Teacher: Listen as I say the first sentence: The student asked for support from the instructor. Repeat the sentence.

Students: The student asked for support from the instructor.

Teacher: Count the number of words in the sentence. How many are there?

Students: Eight words.

Teacher: Yes, eight words. Write the first word, *the*. That's an easy one. Think about the next word, *student*.

Students may think about the syllables or phonemes in the word or may know the word as a whole, depending on their level.

Teacher: Write the word *student* on your paper. Think about the next word: *asked*. How will you spell the /t/ at the end? Remember, *asked* is past tense. The next word is a high-frequency word, *for*. Write *for*. Think about the next word, *support*. The *u* is short, so how many *p*'s will you need? The next word is *from*. Write *from*. The next word is *the*. Write *the*. The last word is *instructor*. Remember, it's Latin-based and has a prefix, root, and suffix.

Continue this procedure for the remainder of the predetermined sentences.

Allow time for students to write the sentences. Check the spelling of each word in the sentences. Have students put a dot above each spelling they got correct. Have students circle incorrect spellings and rewrite the entire word.

Guidelines for Teaching Word Study and Spelling

All students benefit from some systematic word study and spelling instruction and practice.

Students who experience difficulty in spelling need intensive instruction and practice tailored to their individual levels of word knowledge.

The following are several guidelines for spelling instruction.

I. Review previously taught material.

2. Consider students' knowledge and skills; use words that students can read.

Select words and patterns from spelling inventories, the basal reading series, and student writing.

Include words from the content area curriculum.

Determine the number of words to introduce based on students' needs.

Modify spelling lists for students who are identified with or at risk for dyslexia or who have spelling difficulties.

Introduce orthographic patterns and morphemes for spelling after they have been introduced and taught in reading.

3. Introduce frequently used and regular word patterns first.

4. Limit the number of new words or patterns in one lesson.

Expect that students may need to read words many times before they are able to spell them.

5. Provide extended practice for newly learned words or word patterns before other patterns are introduced.

Dictate words or sentences and have students write them.

Provide ample practice for students who are having difficulty with spelling to help them remember orthographic patterns and morphemes.

If handwriting is difficult, encourage students to use keyboards or grapheme tiles to spell words.

Use word banks to provide an excellent review of previously taught words for students to refer to as they write.

Consider using mnemonics that the students develop. Mnemonics may help some students recall words by providing association links, such as "there's an *ear* in *hear*."

6. Teach students to check and monitor their spelling.

Ask students to read words after they have spelled them.

Expect students to spell previously taught words correctly.

7. Provide multiple opportunities for students to make connections between words, their spellings, sounds, meanings, and syntax.

Use techniques that encourage students to focus on the phonemic elements of words. For example, students can repeat the word and then say the sounds as they write the corresponding letters.

For struggling students, enhance their discrimination and recognition of the positions of individual phonemes in words by

- segmenting the sounds in words as students spell the sounds,
- counting syllables,
- omitting syllables, or
- changing the sounds in words.

Provide opportunities for students to analyze and sort words into categories. These opportunities will help students focus on the spelling and letter patterns in words.

Encourage students to use their decoding skills as they read words during word sorts.

8. Provide immediate and appropriate feedback to reinforce correct spelling of newly learned spelling patterns.

9. Extend students' knowledge of words by encouraging them to look for more words that follow particular spelling patterns or generalizations.

After word sorts, extend students' knowledge of words by encouraging students to look for more words that follow particular spelling patterns or generalizations.

Have students work individually, in pairs, or in small groups.

Encourage students to record their words in notebooks or on word bank cards.

Adapted from Bear et al., 2012; Bear & Templeton, 1998; Carreker, 2005b; Moats, 1995; Templeton, 1996; Torgesen & Davis, 1996; Treiman, 1998.

Decoding By Analogy

As students become more proficient readers, they begin to process letters in larger chunks called spelling patterns. Spelling patterns are letter sequences that frequently occur in a certain position in words.

Spelling patterns are also known as phonograms or rimes. The initial consonant(s) of a one-syllable word is the onset. The spelling pattern that follows is the rime. For example, in the word *street* the onset is *str* and the rime is *eet*.

Students blend initial phonemes with common vowel spelling patterns to read words.

Words that contain the same spelling pattern form word families. Here are a few examples:

- beet, feet, meet, sheet, greet, sleet, street
- bay, day, hay, lay, may, pay, ray, say, way, stay, tray, gray, play, stray, spray
- boast, coast, roast, toast
- able, cable, fable, gable, sable, table, stable
- down, gown, town, frown, drown, clown, brown

When students decode words by using word families or spelling patterns from the words they know, they are using a strategy called decoding by analogy. Using many examples of one word family enhances students' memory for specific spelling patterns. Research has shown that students can effectively use the decoding by analogy strategy after they know some letter-sound correspondences and can decode regular words.

Students can use the analogy strategy by asking the following questions:

- "What words do I know that look or sound the same?"
- "What words do I know that end (or begin) with the same letters or sounds?"

Adapted from Gaskins, Ehri, Cress, O'Hara, & Donnelly, 1996–1997.

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Six Syllable Types

Syllable Types	Exar	nples
Closed syllables end in at least one consonant; the vowel is short.	splen-did gos-sip mag-net	in-deed rab-bit mon-ster
Open syllables end in one vowel; the vowel is usually long.	no-tion se-quel ba-by	la-zy ba-con i-tem
Vowel-consonant- <i>e</i> syllables end in one vowel, one consonant, and a final e. The final <i>e</i> is silent, and the vowel is long.	dic-tate stam-pede lone-ly	in-vite pro-file wish-bone
Vowel- <i>r</i> syllables (<i>r</i> -controlled vowel syllables) have an <i>r</i> after the vowel; the vowel makes an unexpected sound. Vowels followed by <i>r</i> do not make their common short or long sounds.	bom-bard vir-tue tur-nip	per-fect cor-ner car-pool
Vowel digraphs and diphthongs have two adjacent vowels. Vowel pairs are also known as vowel combinations or teams.	sail-boat boy-hood treat-ment	six-teen oat-meal moon-struck
Final stable syllables have a consonant followed by <i>le</i> or a nonphonetic but reliable unit, such as <i>tion</i> and <i>ture</i> . Final stable syllables have unexpected but reliable pronunciations.	puz-zle can-dle sta-tion	con-trac-tion ad-ven-ture fea-ture

Adapted from University of Texas Center for Reading and Language Arts, 2003.

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Six Syllable Types: Activities

In the chart below, list the six syllable types and examples of words with each syllable type. The vowel sound(s) within each syllable type are provided.

Syllable Type	Vowel Sound(s)	Examples
	Short	
	Long	
	Long	
	Long, short, and other, including diphthongs (/oi/ and /ow/)	
	/er/, /ar/, /or/	
	Usually schwa	

Use what you just learned about the syllable types to sort these words into open and closed syllables based on their **first** syllable.

paper	bottle	puzzle
funnel	river	maple
temper	even	total
wiggle	title	music

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Teaching the Six Syllable Types

General Procedures

Begin with closed-syllable words.

Sequentially introduce the other five types of syllables.

Closed Syllable

Write four or five closed-syllable words on the board (use one-syllable words). Determine with students how many vowels are in each word (one).

Ask students how each word ends (with a consonant).

Read the words. Ask students how the vowels are pronounced (short-vowel sound).

Define closed syllable.

Use the cloze procedure: "A closed syllable ends in at least one _____. The vowel is _____."

Open Syllable

Write four or five open-syllable words on the board (use one-syllable words). Determine with students how many vowels are in each word (one).

Ask students how each word ends (with a vowel).

Compare words to previously taught closed syllables and discuss differences.

Read the words. Ask students how the vowels are pronounced (long-vowel sound).

Define open syllable.

Use the cloze procedure.

Vowel-Consonant-e

Write four or five vowel-consonant-*e* words on the board. Determine with students how many vowels are in each word (two).

Ask students how each word ends (with an *e*).

Ask what comes between the vowel and the final *e* (one consonant).

Read the words. Ask students what happens to the final *e* (silent).

Ask students how the vowels are pronounced (long sound).

Define vowel-consonant-e syllable.

Use the cloze procedure.

Vowel-r (r-Controlled) Syllable

Write four or five one-syllable vowel-*r* words on the board. Determine with students how many vowels are in each word (one).

Ask students how each word ends (with at least one consonant).

Review the closed syllable.

Read the words and explain that these words do not have a short sound.

Explain that vowels do not make their common long or short sound when they are followed by r.

Define vowel-r syllable.

Use the cloze procedure.

Vowel-Team Syllable (Vowel Digraph/Diphthong)

Write four or five one-syllable vowel-team words on the board. Determine with students how many vowels are in each word (two).

Ask students how each word ends (with at least one consonant).

Compare vowel-team syllables to closed and open syllables and discuss differences.

Read the words. Explicitly teach each sound.

Define vowel-team syllable.

Use the cloze procedure.

Final Stable Syllable

Write four or five two-syllable consonant-*le* words on the board. Ask students what is the same in all the words (all end in a consonant followed by *le*).

Ask students to feel or hear how many syllables are in each word as they say it (two syllables).

Read each word and have students echo or repeat.

Explain that the pronunciations of consonant-le syllables are fairly stable.

Define final stable syllable.

Use the cloze procedure.

Adapted from Carreker, 2005a.

Common Prefixes

PREFIX	% of All Prefixed Words	MEANING	EXAMPLES
Un-	26	Not, opposite of	unaware, unbelievable, unsure
Re-	14	Again	redo, replay
Im-, in-, il-, ir-	11	Not	impossible, incapable, illogical, irregular
Dis-	7	Not, opposite of	dishonest, disgraceful, discover
En-, em-	4	Cause to	enable, emblaze
Non-	4	Not	nonstick, nonfiction, nonexistent
In-, im-	3	In, into	inject
Over-	3	Too much	overtime, overeat
Mis-	3	Wrongly	misunderstand, misuse
Sub-	3	Under	subsurface, subway
Pre-	3	Before	prepay, preschool
Inter-	3	Between	international, interact
Fore-	3	Before	forethought
De-	2	Opposite of	decaffeinated, dehydrate
Trans-	2	Across	transatlantic
Super-	1	Above	superhero, supermodel
Semi-	1	Half	semiannual, semicolon
Anti-	1	Against	antiwar, antisocial
Mid-	1	Middle	midyear, midnight
Under-	1	Too little	underweight, underpaid
All others	3		

Top 20 prefixes from Carroll, J. B., Davies, P., & Richman, B. (1971). The American heritage world frequency book. Boston: Houghten Mifflin; as cited in White, Sowell, & Yanagihara, 1989.

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Common Suffixes

SUFFIX	% OF ALL SUFFIXED WORDS	PART OF SPEECH	EXAMPLES
-s, -es	31	Plural of noun	cats, boxes
-ed	20	Past tense of verb	sailed
-ing	14	Progressive tense of verb	jumping, racing
-ly	7	Usually an adverb; sometimes an adjective	slowly, lovely
-er, -or (agent)	4	Noun (agent)	runner, professor
-ion, -tion, -ation, -ition	4	Noun	action, transition, vacation
-able, -ible	2	Adjective	lovable, incredible
-al, -ial	1	Adjective	global, logical, partial
-у	1	Adjective	funny
-ness	1	Abstract noun	kindness
-ity, -ty	1	Noun	activity
-ment	1	Noun	merriment
-ic	1	Adjective	historic
-ous, -eous, -ious	1	Adjective	hideous, spacious
-en	1	Verb	quicken, thicken
-er (comparative)	1	Adjective	bigger
-ive, -ative, -tive	1	Adjective	alternative, pensive
-ful	1	Adjective	wonderful
-less	1	Adjective	effortless
-est	1	Adjective	strongest
All others	7		

Top 20 suffixes from Carroll, J. B., Davies, P., & Richman, B. (1971). The American heritage world frequency book. Boston: Houghten Mifflin; as cited in White, Sowell, & Yanagihara, 1989.

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Common Greek and Latin Roots

ROOT	ORIGIN	MEANING	EXAMPLES
aud	Latin	Hear	auditorium, audition, audience, audible, audiovisual
astro	Greek	Star	astronaut, astronomy, asterisk, asteroid, astrology
bio	Greek	Life	biology, biography, biochemistry
cept	Latin	Take	intercept, accept, reception
dict	Latin	Speak or tell	dictation, dictate, predict, contradict, dictator
duct	Latin	Lead	conduct, induct
geo	Greek	Earth	geography, geology, geometry, geophysics
graph	Greek	Write	autograph, biography, photograph
ject	Latin	Throw	eject, reject, projectile, inject
meter	Greek	Measure	thermometer, barometer, centimeter, diameter
min	Latin	Little or small	miniature, minimum, minimal
mit or mis	Latin	Send	mission, transmit, missile, dismiss, submit
ped	Latin	Foot	pedal, pedestal, pedestrian
phon	Greek	Sound	telephone, symphony, microphone, phonics, phoneme, phonograph
port	Latin	Carry	transport, portable, import, export, porter
rupt	Latin	Break	disrupt, erupt, rupture, interrupt, bankrupt
scrib or script	Latin	Write	scribble, scribe, inscribe, describe, prescribe
spect	Latin	See	inspect, suspect, respect, spectacle, spectator
struct	Latin	Build or form	construct, destruct, instruct, structure
tele	Greek	From afar	telephone, telegraph, teleport
tract	Latin	Pull	traction, tractor, attract, subtract, extract
vers	Latin	Turn	reverse, inverse

Diamond, L., & Gutlohn, L. (2006). Vocabulary handbook. Berkeley, CA: Consortium on Reading Excellence; Ebbers, S. (2005). Language links to Latin, Greek, and Anglo-Saxon: Increasing spelling, word recognition, fluency, vocabulary, and comprehension through roots and affixes. Presented at The University of Texas, Austin, TX; and Stahl, S., & Kapinus, B. (2001). Word power: What every educator needs to know about teaching vocabulary. Washington, DC: National Education Association.

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Practicing Word Reading During Supported Reading Instruction

Supported reading instruction generally occurs in small groups that are designed to address specific reading needs of students.

Before Reading

Select the text that the group will read.

Select the text based on the instructional level of the students and the concepts that have been taught, such as specific orthographic patterns or morphemes.

Introduce the text to prepare students for what they will read.

Set the purpose for reading, relate the story to students' personal experiences, introduce recurring language and challenging vocabulary, and provide a brief overview of the story.

Have students predict what they think the text will be about.

Review previously taught orthographic patterns, high-frequency words, and/or irregular words by reading words or sentences that contain the concepts.

Introduce any new irregular high-frequency words, concepts, or patterns and have students practice reading words individually and in sentences.

Review word-reading strategies that have been taught and encourage students to use the strategies as they read.

During Reading

Listen to students as they read.

Use different methods for reading the text. For example, have all students "whisper-read" at the same time but at each student's own pace.

As students whisper-read (either to themselves or into a whisper phone), ask each student to read aloud a part of the text so you can listen and assess their word-reading skills and strategy use.

Have students read the text more than once. Reading a text more than once enhances fluency and comprehension, especially for students with dyslexia or other reading difficulties.

When students struggle to read words independently, prompt them to apply word-reading strategies.

Regularly monitor students' progress as they read by noting errors and reading behavior.

After Reading

Discuss texts, help students make connections, and provide prompts to enhance comprehension after everyone finishes reading.

Review effective word-reading strategies students used while reading.

Provide specific feedback that reinforces appropriate reading strategies, such as "You looked for syllables, used them to sound out the word, and then blended them to read that word!"

Follow up with literacy activities to reinforce concepts.

For example, have students generate lists of words with specific orthographic patterns or morphemes from the text.

Encourage students to use these words in activities such as word building, sorting, or writing sentences about the text.

Encourage students to reread the text several times to practice and promote fluency.

Adapted from Carreker, 2005a; Gunning, 2002.

Explicit, Systematic Instruction in Word Study and Recognition

HINTS: Strategy for Reading Multisyllabic Words (based on morphology)

(based on morphology)	

 ${f I}$ dentify the consonant and vowel sounds in the base word.

Name the base word.

T ie the parts together fast.

Highlight the prefix and/or suffix.

Say the word.

SPLIT: Strategy for Reading Multisyllabic Words (based on the six syllable types)

See the syllable patterns.

 ${f P}$ lace a line between the syllables.

Look at each syllable.

Identify the syllable sounds.

Try to say the word.

Knowing both strategies allows readers to be flexible in how they attack longer words. Remind students of this need for flexibility.

Two Final Steps

- Try putting the stress on different syllables (remember the tricky schwa).
- Check the context by rereading the sentence to make sure your word makes sense.

Explicit, Systematic Instruction: Word Study and Recognition Checklist

Date:	Comments				
;; 	Observed Time Amount(s)				
ver: Content Area:	Instructional Methods and Strategies (Check All Observed)	☐ Mixed-ability small groups(e.g., workstations)☐ Partners	 □ Instruction paced appropriately □ Guided practice □ Checking for understanding □ Multiple response opportunities □ Extended practice opportunities □ Immediate feedback (corrective when needed) 	 □ Orthographic pattern instruction or practice □ Analogizing (e.g., word family instruction and practice) □ Syllable-level instruction and practice □ Morpheme-level instruction and practice □ Word-reading strategies applied in text reading 	 Word cards Decodable text Instructional-level text Other text type: Other material:
Observer:	Instruction (Ch	Whole groupTeacher-led small groupsIndependent work	 □ Objective identified □ Background knowledge activated □ Modeling (e.g., thinking aloud) □ Consistent language □ Scaffolding when needed □ Examples and nonexamples (as appropriate) 	 □ Advanced phonemic awareness activities □ Word building □ Word sorts □ Word or sentence dictation □ Decoding words 	 Grapheme tiles or cards Sound-spelling cards Word wall Word list(s)
Teacher:	Category	Grouping Formats	Explicit Instruction Components	Word Study and Recognition Activities and Lessons	Materials Used

Reading Big Words: Instructional Practices to Promote Multisyllabic Word Reading Fluency

Jessica R. Toste, PhD^{1,2}, Kelly J. Williams, EdS^{1,2}, and Philip Capin, MA^{1,2}

Abstract

Poorly developed word recognition skills are the most pervasive and debilitating source of reading challenges for students with learning disabilities (LD). With a notable decrease in word reading instruction in the upper elementary grades, struggling readers receive fewer instructional opportunities to develop proficient word reading skills, yet these students face greater amounts of texts with more complex words. Poor decoders, even those who can fluently read monosyllabic words, often have difficulty with multisyllabic words, yet the average number of syllables in words that students read increases steadily throughout their school years. As such, it is necessary to identify instructional practices that will support the continued reading development of students into the upper elementary years. This article discusses the difficulty involved in multisyllabic word reading and describes five research-based instructional practices that promote the multisyllabic word reading fluency of struggling readers, particularly those with LD.

Keywords

word reading, instruction, multisyllabic words, upper elementary

Proficient readers are simultaneously able to decode letters and sounds in words while making sense of the text that they read. The ability to decode words fluently and the ability to comprehend are mutually important to the process of reading (National Reading Panel, 2000; Pressley & Allington, 2014; Snow, Burns, & Griffin, 1998). For students with disabilities, particularly learning disabilities (LD) in the area of reading, these are often skills that come with much difficulty. Therefore, these students require explicit instruction from their teachers, partnered with continued guided practice.

According to the most recent report by the National Assessment of Educational Progress (2015), only 36% of fourth grade students were performing at or above the proficient level in reading. Deficits in phonological processing that affect decoding skills are the primary challenge for students who struggle with reading in the elementary grades (Blachman, 2013; Leach, Scarborough, & Rescorla, 2003; Shankweiler, 1999; Vellutino, Fletcher, Snowling, & Scanlon, 2004; Yuill & Oakhill, 1991). In the upper elementary grades, the instructional focus shifts from word reading (i.e., teaching students how to read, or decode, individual words) to reading for understanding. With this decrease in word reading instruction, struggling decoders receive fewer

instructional opportunities to develop proficient reading skills, yet these students face greater amounts of texts with more complex words. It is no surprise that research shows struggling readers in upper elementary grades continue to struggle in later grades and become at risk for serious acachallenges (Brasseur-Hock, Hock, Kieffer, Biancarosa, & Deshler, 2011; Francis, Shaywitz, Stuebing, Shaywitz, & Fletcher, 1996; Moats, 1999; Partanen & Siegel, 2014; Vaughn et. al., 2003). As such, it is necessary to identify instructional practices that support the continued reading development of students in the upper elementary years. This article addresses the difficulty involved in multisyllabic word reading and describes five research-based instructional practices to promote the multisyllabic word reading fluency of struggling readers. While struggling readers benefit from this type of instruction, these practices are

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Challenges and Successes of Early American Settlements

The Roanake colony's failure did not cause England to give up hope. Many people were still committed to establishing settlements, or small communities, in North America. In the early 1600s, England was far behind Spain and France in power. The English could not establish colonies just anywhere they wished. Spain already claimed South America, the West Indes, the Southwest region, and Florida. France claimed the areas around many important waterways like the Great Lakes and the Mississippi River. Much of the unclaimed land was harsh, rugged, and dangerous. The forests were thick, and natives often made it difficult for Anglo settlers to establish colonies.

Figure 1. Fifth Grade *Studies Weekly* Passage. Source: Reproduced with permission from Studies Weekly (2016).

particularly effective for students with LD who have more persistent and severe reading difficulties that require targeted, intensive instruction.

The Difficulty With Big Words

As students move into upper elementary grades, there is a notable difference in the type of words they are being asked to read (Hiebert, Martin, & Menon, 2005). A student with LD who has learned the necessary skills to decode words such as cat, dog, bench, and church is now faced with words such as competitiveness, advertisement, transportation, and measurement. Poor decoders, even those who can read monosyllabic words fluently, often have difficulty with reading multisyllabic words (Duncan & Seymour, 2003; Just & Carpenter, 1987; Perfetti, 1986). These words are more complex, and struggling readers often do not have the skills necessary to read these big words. For example, Shefelbine and Calhoun (1991) found that advanced readers utilize morphological knowledge and accurate letter-sound associations to read unfamiliar multisyllabic words, but poor readers focus on letter units and partial syllables. Similarly, others have reported that adept readers see words in morphological parts whereas struggling readers rely on contextual clues and pictures to identify unknown words (Archer, Gleason, & Vachon, 2003; Bhattacharya & Ehri, 2004).

Difficulty with word reading is an issue for older readers as much as for beginning readers, and their chances of success are greatly affected when instruction does not address these skills. Not only does this difficulty affect their reading fluency, but it also interferes with their ability to comprehend text. Decoding instruction often ends after second grade, but the average number of syllables in words that students read increases steadily throughout their school years. The average fourth grader encounters 10,000 new words each year, and most of these words have two or more syllables (Kearns et al., 2015; Nagy & Anderson, 1984). More importantly, often these words carry the meaning of a text (Carnine & Carnine, 2004). Consider the multisyllabic words that might be difficult for struggling readers in Figure 1.

Students often skip over or unsuccessfully decode multisyllabic words such as *colony, settlements*, or *unclaimed*. However, without the words *colony* and *settlements*, the meaning of this passage is impossible to decipher. The word *unclaimed* provides an important detail about colonized regions. Even with additional comprehension instruction focused on strategies such as self-monitoring or inferencing, the meaning of the passage would still lack clarity. When students allocate too much attention to decoding these multisyllabic words, they may not attend enough to the meaning of the text (LaBerge & Samuels, 1974; Perfetti, 1985; Stanovich, 1980).

Multisyllabic Word Reading

Multisyllabic word reading instruction is effective in improving the word reading skills of struggling readers (Bhattacharya & Ehri, 2004; Diliberto, Beattie, Flowers, & Algozzine, 2008; Lenz & Hughes, 1990; Shefelbine, 1990). Despite promising findings in these studies, recent research reveals new directions for multisyllabic word reading instruction. For example, students' knowledge of phonics-based rules does not necessarily predict their multisyllabic word reading skills, and no relationship appears to exist between knowledge of syllabication rules and successful reading (Kearns, 2015). Additionally, many struggling readers have deficits in phonological memory (Shankweiler, Crain, Brady, & Macaruso, 1992; Wagner & Torgesen, 1987), which may make it difficult for them to simultaneously process morphologically complex words and recall appropriate strategies. Ultimately, successful reading comprehension relies on students' exerting less attention when processing and reading words so they can dedicate more attention to understanding texts. This suggests that less cognitively demanding approaches to teaching multisyllabic word reading might enhance reading comprehension.

One approach for teaching multisyllabic word reading is to focus on the development of automaticity by providing multiple opportunities for students to manipulate and read words rather than focusing on rule-based instruction. This helps students acquire word representations through repeated exposures to words and word parts within the context of their larger word units (Cunningham & Stanovich, 1991; Perfetti, 1992; Stanovich, 1996). Specifically, instruction moves from part to whole, introducing morphemes

- first in isolation.
- then in words, and
- finally in connected text.

The following instructional practices align with this progression.

Practices for Multisyllabic Word Reading

In this section, five research-based instructional practices to support students' multisyllabic word reading development are presented. When students with LD receive supplemental reading instruction, many require continued focus on word study. This need not (and should not) be the sole focus of their supplemental instruction, but it is valuable for students to receive explicit, targeted instruction and opportunities for practice. These multisyllabic word reading practices are best used with students who are proficient decoders of most vowel patterns in monosyllabic words. If students are not proficient in monosyllabic word reading, instruction should first target vowel patterns that students do not know. This ensures they have the necessary decoding skills to begin working with more complex words.

Rather than provide rules-based instruction, these five practices focus on promoting automaticity. These practices are supported by previous research and have been recently investigated as part of a reading intervention developed and tested by our team (Toste, Capin, Vaughn, Roberts, & Kearns, 2016; Toste, Capin, Williams, Cho, & Vaughn, 2016). Across two studies, a total of 175 struggling readers in third through fifth grades were randomly assigned to receive a multisyllabic word reading intervention or business-asusual reading instruction provided by the school. The intervention was delivered in small groups of 3 to 5 students by a trained tutor. Students who received this reading intervention experienced significant growth on word identification, decoding, and spelling compared to those who received standard reading instruction. Each intervention session included five instructional principles.

- Affix Learning | 2 to 3 min
- "Peel Off" Reading | 5 to 10 min
- Word-Building Games | 5 to 10 min
- Word Reading Fluency | 5 min
- Connected Text Reading | 10 min

Affix Learning

The first instructional practice to support multisyllabic word reading is learning affixes. Teachers introduce an activity called Affix Bank in which students are explicitly taught high-frequency prefixes (e.g., pre-, dis-, un-) and suffixes (e.g., -ing, -ly, -tive). White, Sowell, and Yanagihara (1989) published a list of the most commonly used prefixes and suffixes in third to ninth grades. Learning these affixes supports greater efficiency when reading multisyllabic words. During Affix Bank, teachers introduce approximately three new affixes each day using the following instructional sequence:

- Name it. Teacher introduces a new affix by reading it aloud, writing it on a white board, and having students chorally read the affix. If an affix corresponds to more than one sound (e.g., -ed can be pronounced as /ed/, /d/, or /t/), then the teacher provides additional explicit instruction, and students practice all pronunciations. A more detailed example of this is provided in the next section.
- Provide sample word. Teacher provides a sample word that uses the affix and writes it on the whiteboard.
- **Define it.** Teacher provides a student-friendly definition of the affix. Define affixes only if meaning will be of high utility for students or it appears in highly transparent words (i.e., meaning of the word can be inferred from its parts). For example, the prefix *pre*means before and helps students understand the meaning of common words such as prepay, precaution, or preview.
- Students generate sample words. The teacher asks students if they can think of other words that use the target affix.
- Write it. Students write each new affix taught on their Affix Bank chart. Organizing affixes by "prefix" and "suffix" creates a resource for students (see Figure 2). It can also be helpful for students to write a sample word on their charts.
- **Review it.** Students regularly review previously learned affixes with their Affix Bank chart or flash-cards. This can be done in pairs, or the group can chorally read all of the affixes.

What might this instruction sound like? A teacher leading students in Affix Bank might use the following routine: "This is the prefix de-." The teacher writes the affix on the whiteboard. "One word I know that begins with de- is defrost." Teacher writes the word on the board. "This affix means remove. Because we know that this affix means remove, then we know the word defrost means to remove frost from something. Can you think of any other words that

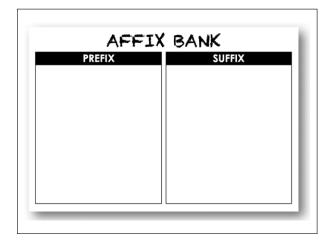


Figure 2. Student Chart for Logging Affixes Learned.

begin with the prefix de-?" The teacher encourages students to share their responses. "Now, let's add de- to our Affix Bank." Students copy de- in the prefix column of their chart. "Great! Let's practice reading aloud all of our prefixes and suffixes." Teacher uses flashcards for students to chorally read affixes.

Teaching Affixes That Make More than One Sound

Some affixes correspond to more than one sound. For example, students are taught to say -ed as /ed/ like in the words shouted, needed, or planted. However, it can also made the sounds /t/ (e.g., brushed, kicked, washed) or /d/ (e.g., rained, filled, hugged). It is important to explicitly teach these sounds to students. The following script provides a guideline for this instruction: "The suffix -ed can make different sounds when we see it at the end of a word. There are three different sounds -ed might make. Let's look at some examples." To help students understand and recall, the teacher uses a poster or chart that has the three sounds and example words for each. "The first sound that -ed can make is /ed/. Look at the word I wrote on the board. This says 'shout.' When we add -ed to the end, it becomes 'shouted.' What sound did -ed say in 'shouted'?" Students repeat the sound. The teacher follows this routine for additional affix sounds. When students are reading words with -ed, they are reminded to flex the sounds (e.g., try each sound for -ed if they are not sure).

Peel Off Reading

Another instructional strategy that supports students' practice and fluency in reading multisyllabic word reading is breaking apart or segmenting words into their parts. This is often called a *peel off* strategy, wherein students are asked to read the smaller words or word parts that they already



Figure 3. Sample Word List Used for "Peel Off" Reading.

know or can easily decode. The focus is on accurate and fluent word reading, not the meaning of the words or word parts. Teachers can use an activity called Beat the Clock to do this. Students are given a new list with approximately 40 multisyllabic words each day (see Figure 3), and teachers use the following instructional routine:

- Underline affixes. The teacher guides students in underlining affixes in each word. Lists vary in difficulty, beginning with only prefixes (e.g., <u>unclear, rewrite</u>) or only suffixes (e.g., <u>friendly, challenging</u>), progressing to lists both prefixes and suffixes (e.g., <u>invalid, guilty</u>), and finally lists where individual words have both prefixes and suffixes (e.g., <u>unfaithful, improbable</u>).
- Choral read affixes in isolation. Students chorally read underlined affixes. The teacher provides corrective feedback as necessary, ensuring all students pronounce affixes accurately.
- Choral read words. Next, the teacher and students read whole words aloud together. The teacher continues to provide corrective feedback as necessary.
- Timed reading of words. Following the practice, all students are given two opportunities to read the list of words. The teacher times each student while reading the entire list aloud, focusing on reading accurately during the first read. While one student is

Table 1. Word-Building Game Descriptions.

Game	Materials	Description
Quick Search	Base word cards Affix cards	Students read all affix and base word cards and place them face up on a table. Students take turns choosing one affix and one base word card. They read the parts separately and then read them together to make a word.
Build-a-Word	Base word cardsAffix cardsSmall white boardsDry-erase markers	The teacher reads a base word card aloud, defines it, and uses it in a sample sentence. Then, the teacher adds an affix card to the base word. Students read the parts and then blend them together to make a real word. Then, students define the word using the affix and word definition.
Word Train	 Base word cards Affix cards Engine and caboose cards Pocket chart 	Students read aloud all affix cards and sort them into two piles: prefixes (engines) or suffixes (cabooses). Then, they read the base word cards and place each one in the center of the pocket chart. Students choose an affix card, place it before or after the base word card, read the parts, and then read the whole word aloud. Students then move the affix down the pocket chart and read with each base word card.
Elevator Words	Base word cardsAffix cardsPocket chart	Students read aloud affix cards and place prefixes on the left side of the pocket chart and suffixes on the right side. Then, students read aloud the first base word card, place it in the top row of the chart, combine the parts, and then read the new word. Then, students move the base word card down the pocket chart to read with each of the affixes.
Spinner Words	Plastic spinners (2)Dry-erase markers	The teacher writes the five base words on one spinner and affixes on the second spinner. Students read aloud the affixes and base words and then take turns spinning the spinners. Students combine the parts on the spinners and read each word aloud.

reading, the other students follow along with their fingers on their own lists. The teacher has students record their time in seconds for their first read in the box at the bottom of their Beat the Clock word list. The teacher provides each student the opportunity to read the list independently twice and record his or her times. During the second reading, students focus on maintaining accuracy while trying to beat the clock (i.e., improving on their initial time).

Word-Building Games

During the instructional practice, students do the opposite of peel off reading; the focus here is on assembling or blending word parts together. To make this practice more engaging, a variety of word-building games that emphasize automaticity of the reading process can be used. Before introducing the game, the teacher first selects a number of base words (e.g., judge, extend, thought, visible, strong). After introducing base words, students then play a game that provides them with multiple opportunities to practice building and reading big words. Students build both real and pseudo (nonsense) words; this ensures that they are able to work on the skills necessary for quick and accurate decoding of unknown words. Table 1 provides descriptions of five different word-building games: Quick Search, Builda-Word, Word Train, Elevator Words, and Spinner Words. Although these games differ slightly, they follow a similar instructional format:

- Choral read base words. Students are introduced to a set of base words that they will be using to build longer words; teacher holds up an index card with the word and reads it aloud, and students repeat each word
- Review affixes (as necessary). If the students have not completed Affix Bank or a similar activity in this lesson, the teacher reviews all of the affixes previously taught. This can be done in pairs, or the group can chorally read all of the affixes.
- Attach a prefix and/or suffix to base word.
 Students build words by placing a base word beside a prefix and/or suffix. The teacher models this first.
- Read all word parts. The students read each word part by pointing and saying (e.g., "un-" / "faith" / "-ful"). Do not discuss the meaning of the affixes. The focus is blending word parts to read accurately and fluently.
- Say it fluently! The student blends the word parts together and pronounces the whole word (e.g., "unfaithful"). Students repeat Steps 3 to 5 for continued practice; they can take turns in a small group or work with partners to do this.

How might you differentiate instruction? Teachers can use several variations when playing the games, as described in Table 1. To simplify, the teacher may choose to play any of these games using only prefixes or only suffixes. Limiting the game to only prefixes or suffixes makes the task easier

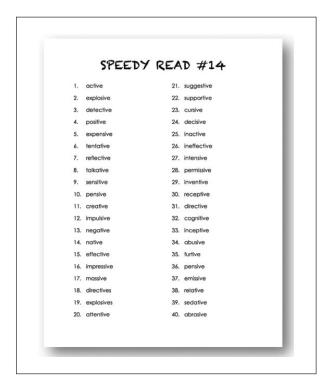


Figure 4. Sample Word List Used for Word Reading Fluency Practice.

for students as they do not have to identify the type of affix used in the word. To make it more challenging, students create words using both prefixes and suffixes. In this case, students blend words that have at least three syllables. Finally, a teacher could ask students to build only real words. The teacher could also have students write all of the real words they build on the board or in their notebooks.

Word Reading Fluency

Researchers have shown that an excellent predictor of student reading fluency is the amount of time students spend reading. For struggling readers, this reading practice should be targeted, for example, words with the same patterns (e.g., phonograms) or multisyllabic words. Student practice should also include immediate, corrective feedback from the teacher. For example, if students do not know the medial sound in the word boil, the teacher might provide a correction by noting which sound was incorrect: "This vowel team says /oi/. What sound? So this word is boil. What word?" If the student reads a word incorrectly or pauses for more than 2 s, the teacher provides the word and asks the student to repeat the word: "This word is colony. What word?" The teacher may also choose to wait until the end of a timed reading to provide corrections, so as not to interfere with the students' pacing.

One effective instructional practice focused on word reading fluency is the use of timed reading of targeted word lists, which supports students in their reading accuracy and rate. Teachers can implement an activity called Speedy Read, which is simple but highly structured:

- Teacher-led choral reading. Students are first given a word list that has similar phonetic patterns and asked to chorally read the list aloud with the teacher. An example of a Speedy Read word list can be found in Figure 4.
- Timed reading. Then, each student is given an opportunity to read for 30 seconds while the teacher tracks the accuracy of responses. The teacher provides corrective feedback by having students reread incorrectly pronounced words. After reading, students record the number of words read on a chart to help monitor their progress.
- **Listen and follow.** While a student is completing his or her 30-second timed reading, the other students in the group follow along with the list. For students who have more difficulty with this task, the teacher can provide additional supports by having them read after a peer who has provided a model of fluent reading.

What might this instruction sound like? "It's time for Speedy Read." Distribute copies of today's word list to students. "Let's do our choral read first. As we read each word, I want you to follow along with your finger. Let's go!" Read the words chorally as a group.

"Now it's your turn to read the words independently. Let's see how many words you can each read in 30 seconds!

_____ will go first. Is everyone pointing? Great. Ready?
Go." Start the timer. After 30 seconds have elapsed, say,
"OK, good work! On your Speedy Read chart, write how many words you read correctly in 30 seconds."

Connected Text Reading

The final instructional practice, while not directly targeting multisyllabic words, moves students' fluency practice from the word level to the text level. It is important for students to practice their reading with connected text (e.g., sentences and passages). Teachers should be purposeful in selecting text for them to read. For students with LD, who are struggling with reading, gradual integration of multisyllabic words supports skill development. Rather than begin reading long passages immediately, prepare sentences that target multisyllabic word reading skills that students have been practicing. For example, students can read:

 maze sentences that require them to select the correct affix for the base word, checking that it makes sense;

Table 2. Sample Sentence Reading Tasks.

Sentence Type	Examples
Maze sentences	The teacher guided OR guiding the students through the reading lesson.
	When he saw Kathy's expressed OR expression, he knew that she was upset.
Cloze sentences	In the United States, we import OR report most of our bananas from Central and South America. Wednesday is in the middle of the week. We say that it is week.
	Mr. Mort had the children sit on the rug in a circle to listen to the story.
Whole sentences	My little brother knocked down my Lego building when he got mad at me. I had to construct it. Carter's substitute teacher would not let him display his artwork on the board.
	The pain in my ankle would not subside. Finally, it went away when I applied ice to it.
	I was an inactive member of the soccer team because I was injured.

- cloze sentences that require them to insert the missing affix to complete the word; or
- whole sentences with the same multisyllabic words.

Table 2 provides examples of these sentence reading tasks.

Passage reading focuses on expository text that includes many multisyllabic words. Teachers can use the following routine. Following this format increases the students' opportunities to practice reading text aloud repeatedly while also providing corrective feedback.

- Key words. The teacher introduces and defines key words. These are words that are central to the meaning of the story; introducing them supports students' fluency and comprehension.
- Repeated reading practice. The teacher leads students in a repeated text reading. Students read the text aloud at least two times using various oral reading practices: choral read, whisper read, or echo read.
- Note useful words. The teacher calls students' attention to irregular words or multisyllabic words. Noting multisyllabic words helps students make the connection from word-level and text-level practices.
- Check for understanding. When students have completed their reading of the passage, the teacher asks comprehension questions to check for understanding. Depending on the focus of the overall lessons with each group of students, the teacher might choose to ask more in-depth, higher order questions.

Summary

The set of routines described in this article provides teachers with a series of research-based instructional practices that promote multisyllabic word reading fluency. These practices can be easily integrated into small-group instruction and intervention, either in the general education classroom or

resource room setting. They can easily be incorporated into reading goals for students' individualized education programs. Some sample individualized education program goals might be the following:

- Given a list of the 20 most common prefixes and suffixes, the student will read aloud each prefix or suffix accurately within 25 seconds.
- Given a list of 20 two- and three-syllable words, the student will read the words automatically (within 1 second) with 95% accuracy.

All five practices are appropriate within daily intervention programs for students with LD; however, teachers may choose to use any combination of these practices based on the needs of their students. One of the fourth graders who participated in an intervention development study (Toste et al., 2016) noted,

A good reader focuses on the words, looking at them and chunking them. You have to know a lot of big words because you're gonna see a lot of big words when you read. It can be a very important thing. If you don't know what they say, then you miss them and you won't know what the story means.

Students understand the challenges that come along with being unable to read words accurately and fluently. Increased skill in decoding multisyllabic words promotes students' continued development as proficient readers, as well as supporting their achievement into the upper elementary grades and beyond.

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References

- Archer, A. L., Gleason, M. M., & Vachon, V. L. (2003). Decoding and fluency: Foundation skills for struggling older readers. *Learning Disability Quarterly*, 26(2), 89–101.
- Bhattacharya, A., & Ehri, L. C. (2004). Graphosyllabic analysis helps adolescent struggling readers read and spell words. *Journal of Learning Disabilities*, *37*(4), 331–348.
- Blachman, B. A. (2013). Foundations of reading acquisition and dyslexia: Implications for early intervention. New York, NY: Routledge.
- Brasseur-Hock, I. F., Hock, M. F., Kieffer, M. J., Biancarosa, G., & Deshler, D. D. (2011). Adolescent struggling readers in urban schools: Results of a latent class analysis. *Learning and Individual Differences*, 21(4), 438–452.
- Carnine, L., & Carnine, D. (2004). The interaction of reading skills and science content knowledge when teaching struggling secondary students. *Reading & Writing Quarterly*, 20(2), 203–218.
- Cunningham, A. E., & Stanovich, K. E. (1991). Tracking the unique effects of print exposure in children: Associations with vocabulary, general knowledge, and spelling. *Journal of Educational Psychology*, 83(2), 264–274.
- Diliberto, J. A., Beattie, J. R., Flowers, C. P., & Algozzine, R. F. (2008). Effects of teaching syllable skills instruction on reading achievement in struggling middle school readers. *Literacy Research and Instruction*, 48(1), 14–27.
- Duncan, L. G., & Seymour, P. H. (2003). How do children read multisyllabic words? Some preliminary observations. *Journal* of Research in Reading, 26(2), 101–120.
- Francis, D. J., Shaywitz, S. E., Stuebing, K. K., Shaywitz, B. A., & Fletcher, J. M. (1996). Developmental lag versus deficit models of reading disability: A longitudinal, individual growth curves study. *Journal of Educational Psychology*, 88, 3–17.
- Hiebert, E. H., Martin, L. A., & Menon, S. (2005). Are there alternatives in reading textbooks? An examination of three beginning reading programs. *Reading & Writing Quarterly*, 21(1), 7–32.
- Just, M. A., & Carpenter, P. A. (1987). The psychology of reading and language comprehension. Newton, MA: Allyn & Bacon.
- Kearns, D. M. (2015). How elementary-age children read polysyllabic polymorphemic words. *Journal of Educational Psychology*, 107(2), 364–390.
- Kearns, D. M., Steacy, L. M., Compton, D. L., Gilbert, J. K., Goodwin, A. P., Cho, E., ... Collins, A. A. (2015). Modeling polymorphemic word recognition: Exploring differences among children with early-emerging and late-emerging word reading difficulty. *Journal of Learning Disabilities*, 49(4), 368–394. doi: 10.1177/0022219414554229
- LaBerge, D., & Samuels, S. J. (1974). Towards a theory of automatic information processing in reading. *Cognitive Psychology*, 6, 293–323.
- Leach, J. M., Scarborough, H. S., & Rescorla, L. (2003). Lateemerging reading disabilities. *Journal of Educational Psychology*, 95(2), 211–224.
- Lenz, B. K., & Hughes, C. A. (1990). A word identification strategy for adolescents with learning disabilities. *Journal of Learning Disabilities*, 23(3), 149–158.

- Moats, L. C. (1999). *Teaching reading is rocket science*. Washington, DC: American Federation of Teachers.
- Nagy, W. E., & Anderson, R. C. (1984). How many words are there in printed school English. *Reading Research Quarterly*, 14, 304–330.
- National Assessment of Educational Progress. (2015). The nation's report card: Reading 2015. Washington DC: National Center for Education Statistics.
- National Reading Panel. (2000). Report on the National Reading Panel. Teaching children to read: An evidencebased assessment of the scientific research literature on reading and its implications for reading instruction (NIH Publication No. 00-4754). Washington, DC: Government Printing Office.
- Partanen, M., & Siegel, L. S. (2014). Long-term outcome of the early identification and intervention of reading disabilities. *Reading and Writing*, 27(4), 665–684.
- Perfetti, C. A. (1985). Reading skills. *Psychiatry*, 50, 1125–1129.
 Perfetti, C. A. (1986). Continuities in reading acquisition, reading skill, and reading disability. *Remedial and Special Education*, 7(1), 11–21.
- Perfetti, C. A. (1992). The representation problem in reading acquisition. In P. B. Gough, L. C. Ehri, & R. Treiman (Eds.), *Reading acquisition* (pp. 145–174). Hillsdale, NJ: Erlbaum.
- Pressley, M., & Allington, R. L. (2014). Reading instruction that works: The case for balanced teaching. New York, NY: Guilford.
- Shankweiler, D. (1999). Words to meanings. *Scientific Studies of Reading*, 3(2), 112–127.
- Shankweiler, D., Crain, S., Brady, S., & Macaruso, P. (1992). Identifying the causes of reading disabilities. In P. B. Gough, L. C. Ehri, & R. Treiman (Eds.), *Beginning reading* (pp. 275–305). Hillsdale, NJ: Lawrence Erlbaum.
- Shefelbine, J., & Calhoun, J. (1991). Variability in approaches to identifying polysyllabic words: A descriptive study of sixth graders with highly, moderately, and poorly developed syllabification strategies. In J. Zutell & S. McCormick (Eds.), Learner factors/teacher factors: Issues in literacy research and instruction (pp. 169–177). Chicago, IL: National Reading Conference.
- Shefelbine, J. L. (1990). Student factors related to variability in learning word meanings from context. *Journal of Literacy Research*, 22(1), 71–97.
- Snow, C. E., Burns, M. S., & Griffin, P. (Eds.). (1998). Preventing reading difficulties in young children. Washington, DC: National Academy Press.
- Stanovich, K. E. (1980). Toward an interactive-compensatory model of individual difference in the development of reading fluency. Reading Research Quarterly, 16, 32–71.
- Stanovich, K. E. (1996). Toward a more inclusive definition of dyslexia. *Dyslexia*, 2, 154–166.
- Studies Weekly, Inc. (2016). Challenges and successes of early American settlements [fifth-grade passage]. Retrieved from http://www.studiesweekly.com
- Toste, J. R., Capin, P., Vaughn, S., Roberts, G. G., & Kearns, D. K. (2016). Multisyllabic word reading instruction with and without motivational beliefs training for struggling readers in the upper elementary grades: A pilot investigation. Manuscript under review.

- Toste, J. R., Capin, P., Williams, K. J., Cho, E., & Vaughn, S. (2016). Replication of an experimental study investigating the efficacy of a multisyllabic word reading intervention with and without motivational beliefs training for struggling readers. Manuscript under review.
- Vaughn, S., Linan-Thompson, S., Kouzekanani, K., Bryant, D. P., Dickson, S., & Blozis, S. A. (2003). Reading instruction grouping for students with reading difficulties. *Remedial and Special Education*, 24, 301–315.
- Vellutino, F. R., Fletcher, J. M., Snowling, M. J., & Scanlon, D. M. (2004). Specific reading disability (dyslexia): What have we

- learned in the past four decades? *Journal of Child Psychology and Psychiatry*, 45, 2–40.
- Wagner, R. K., & Torgesen, J. K. (1987). The nature of phonological processing and its causal role in the acquisition of reading skills. *Psychological Bulletin*, 101, 192–212.
- White, T. G., Sowell, J., & Yanagihara, A. (1989). Teaching elementary students to use word part clues. *Reading Teacher*, 42, 302–308.
- Yuill, N., & Oakhill, J. (1991). Children's problems in text comprehension: An experimental investigation. Cambridge, UK: Cambridge University Press.

Source: Toste, J. R., Williams, K. J., & Capin, P. (2016). Reading big words: Instructional practices to promote multisyllabic word reading fluency. *Intervention in School and Clinic*. Advance online publication. doi:10.1177/1053451216676797

Grade 5 Reading to Learn Aca	demy	

English and Spanish Sounds

English consonant sounds present in Spanish	/n/, /p/, /k/, /f/, /y/, /b/, /g/, /s/, /ch/, /t/, /m/, /w/, /l/, /h/
English consonant blends present in Spanish	pl, pr, bl, br, tr, dr, cl, cr, gl, gr, fl, fr
English consonant sounds that are difficult for English language learners	/d/ (can be pronounced as /th/), /j/, /r/, /v/, /z/, /sh/, /zh/, /th/
English consonant blends not present in Spanish	st, sp, sk, sc, sm, sl, sn, sw, tw, qu, scr, spr, str, squ
English vowel sounds not present in Spanish	m <u>a</u> n, <u>pe</u> n, <u>ti</u> p, <u>u</u> p r-controlled vowels schwa sound c <u>aug</u> ht, c <u>ou</u> ld, <u>u</u> se
Challenging final English sounds	rd, st, ng, sk, ng, z, oil, mp, dg

Adapted from Helman, 2004.

Grade 5 Reading to Learn Aca	demy	

Monitoring Students' Progress: Word Study and Recognition

Questions to ask when listening to a student read aloud

Can the student read some words in context that he or she missed in isolation?

Does the student miss words in context that he or she read correctly in isolation?

Does the student sound out the word, sound by sound?

Does the student try to read the word in chunks (e.g., /bl//āk/, /fāb//yū//lŭs/)?

In Spanish, does the student read the word in syllables (e.g., /bo/ /ta/)?

Does the student guess the word without trying to sound it out?

Does the student rely on picture cues?

Does the student use context after decoding an unfamiliar word to check that it makes sense?

Does the student self-correct some errors?

Does the student read slowly with frequent hesitations and repetitions?

As the year progresses, are more and more words becoming sight words for the student? Does the student automatically recognize many multisyllabic words in addition to single-syllable words?

Questions to ask as you analyze spelling errors

Does the student confuse voiced and unvoiced consonant sounds (e.g., /p/ vs. /b/)?

Does the student confuse consonants produced similarly (e.g., /m/ vs. /b/, /f/ vs. /th/)?

Does the student confuse stop sounds with continuant sounds (e.g., /ch/ vs. /sh/)?

Does the student misspell initial blends or final blends in words?

Does the student lose nasal sounds (e.g., /m/, /n/, /ng/)?

Does the student confuse short-vowel sounds, long-vowel sounds, or both?

Does the student confuse vowel teams (e.g., ee vs. ea)?

Does the student break orthographic conventions (e.g., -ck for /k/ after a short vowel)?

How does the student's multisyllabic-word spelling compare to his or her single-syllable spelling?

Does the student use knowledge of morphemes (e.g., prefixes, roots) to spell multisyllabic words correctly?

Grade 5 Reading to Learn Aca	demy	

MULTISYLLABIC WORD READING LESSON 13

OBJECTIVE

Students will read and spell multisyllabic words.

MATERIALS

- Lesson 13 word cards*
- Syllable cards*
- Syllable squares worksheet*
- Syllable squares template*
- Syllable squares tokens*
- Syllable football game board*
- Syllable football token*
- Spinner with syllable type sections**
- Syllable type word spelling worksheet*
- Beginning with... tokens*
- Decodable text, such as a kids' magazine or newspaper
- Board and markers or chalk for teacher
- Personal whiteboards and dry-erase markers for students
- Notebook paper

TIPS

- Refer to the Appendix for a list of multisyllabic words.
- Make sure that students already have mastered previously learned syllable types.
- Use words that contain only learned syllable types.
- The letter y, at the end of a multisyllabic word, usually is pronounced $/\bar{e}/$.
- Correct students' pronunciation of syllables and word parts:
 - If a student stresses the wrong syllable—for example, stressing the first syllable in *prohibit*—use the correct pronunciation when saying something similar to the following: "The word is pronounced *prohibit*. Say *prohibit*."
 - If a student mispronounces the schwa sound /uh/ in an unaccented syllable—for example, pronouncing *wagon* as /wag/ /on/—use the correct pronunciation when saying something similar to the following: "The word is pronounced *wagon*. Say *wagon*."
 - If a student applies the word reading strategy correctly but does not say a recognizable word—for example, saying /prŭd/ /ent/, instead of /prū/ /dent/—guide the student to try dividing the word differently. For example, say something similar to the following: "How would you say the word if the first syllable was an open syllable?"
- Scaffold instruction by starting with less complex words that follow a similar pattern. For example, have students read or spell words with two closed syllables, then words with a closed syllable and a VCe syllable, then words with a closed syllable and an open syllable, and so on.
- Provide direct feedback to students.

DAILY REVIEW =

AFFIXES

On the board, write the words *pleading*, *unlock*, *renew*, *handful*, and *distrustful*. Review affixes by having students read the words and identify the base words and affixes.

Teacher: Raise your hand to tell me what an affix is and give me an example...Francisco?

Francisco: It's something that is added to the end of a word or the beginning of a word. The

word *nonstop* has *non* added to *stop*.

Teacher: Thank you, Francisco. That was a good explanation. Does the meaning of *stop*

change when the prefix **non** is added to it?

Francisco: Yes. *Nonstop* means that something doesn't stop.

[Point to pleading.]

Teacher: Tanya, please read the word and tell me the base word and the affix.

Tanya: *Pleading*: The base word is *plead*. The suffix is *ing*.

Teacher: Nice job. So, is a suffix added to the beginning or end of a word?

Students: A suffix is at the end of a word.

Teacher: Eric, read the next word, please. Then say the base word and the affix.

Eric: *Unlock*: Base word is *lock*; the prefix is *un*.

Teacher: Excellent. Let's read the rest of the words. Say the whole word. Then say the base

word and the affix.

OPENING =

Teacher: Let's learn some more about multisyllabic words. You've already learned how to

read two kinds of multisyllabic words: compound words and words with affixes.

This lesson will teach you a strategy to use with all multisyllabic words.

Many words in textbooks and novels have more than one syllable. These words can look long and difficult to read, but the strategy will help you break down words into small parts that are easy to read. Then, you can put the small parts together again to read the whole word. In this way, you will increase the number of words

you can read.

MODEL AND TEACH: ACTIVITY 1 =

HEARING SYLLABLES

Say 10 to 12 multisyllable and single-syllable words. Demonstrate how to "hear" the number of syllables by clapping each syllable. Tell students that each syllable has one vowel sound. Explain that a syllable can be a word (as in a compound word), an affix, or a part of a word.

Teacher: A syllable is a part, or chunk, of a word. A syllable has one vowel sound. You can

hear the syllables in words. Listen as I demonstrate.

[Clap each syllable as you say it.]

Teacher: *Pic-nic*: *Picnic* has two syllables, *pic-nic*.

I'll say other words. Repeat and clap after me: *un-like-ly*.

[Students clap as they repeat.]

Students: *un-like-ly*

Teacher: How many syllables in *unlikely*?

Students: Three syllables.

Teacher: In *unlikely*, the affixes *un* and *ly* are each a syllable.

The next word is *shrug*.

[Students clap as they repeat.]

Students: *Shrug*: one syllable.

Teacher: Footprint: How many parts, Amanda?

[Amanda claps as she repeats.]

Amanda: *Foot-print*: two parts.

Teacher: Great! *Footprint* is a compound word. Each small word in *footprint* is a syllable.

The next word is *remember*. How many parts, Eric?

[Eric claps as he repeats.]

Eric: *Re-mem-ber*: three parts.

Say more words and identify the number of syllables as necessary.

TIPS

- Because this activity does not involve decoding, include words that are familiar or interesting to your students, even if the words contain syllable types students have not yet learned. For instance, include students' names, the school name or mascot, or geographic locations (e.g., *encyclopedia*, *pepperoni*, *transcontinental*).
- Use this activity to introduce syllables. If students can "clap" the syllables in a variety of words with ease, move to the next activity on reading multisyllabic words.

MODEL AND TEACH: ACTIVITY 2 =

MULTISYLLABIC WORD READING STRATEGY DECODING

Write *napkin* and *department* on the board. Model and teach the strategy for reading multisyllabic words:

- 1. Find the vowels in the word.
- 2. Look for syllables or word parts you know.
- 3. Pronounce each syllable or word part, based on syllable types and sounds you know.
- 4. Combine the syllables or word parts to form the word.

Teacher: When you see a long word, there are steps you can follow to read it. Look at this

word.

[Point to napkin.]

Teacher: First, I find the vowels in the word. I will underline each vowel.

[Underline **a** and **i**.]

Teacher: Because there are two vowels separated by consonants, there will probably be two

syllables.

Second, I look for syllables or word parts I know. There's the word *nap* at the

beginning, so I will underline it.

[Underline nap.]

Teacher: I see a closed syllable at the end of the word. I'll underline that, too.

[Underline kin.]

Teacher: Next, I say each syllable, based on its syllable type and the sounds I know.

The first syllable is *nap* because it is a closed syllable and has a short vowel sound.

Because the second syllable...

[Point to kin.]

Teacher: ...is a closed syllable, it has a short vowel: /kin/.

Last, I combine the syllables to form the word.

[Point to each syllable as you say it, and then slide your finger under the

whole word as you say it.]

Teacher: *nap-kin, napkin*

Let's read the next word.

[Point to department.]

Teacher: First, find the vowels. There are three vowels: *e*, *a*, and *e*.

[Underline the vowels.]

Teacher: Next, look for syllables or word parts you know.

[Underline each word part as you think aloud.]

Teacher: It has *de* at the beginning. That's a prefix we learned. I see a word I know, *part*, in

the middle. It looks like there's a closed syllable at the end.

Next, say each syllable. You say the syllables as I point to each one.

[Point to the syllables as students say them.]

Students: /dē//part//ment/

Teacher: Last, combine the syllables to form the word.

Students: *de-part-ment, department*

ADAPTATION

Ask students to identify syllable types in words—for example:

- What is the *r*-controlled syllable in *department*? (*part*)
- What is the closed syllable in *department*? (*ment*)
- What is the open syllable in *department*? (*de*)

MODEL AND TEACH: ACTIVITY 3

SPELLING MULTISYLLABIC WORDS ENCODING

Model how to spell multisyllabic words by using the following steps:

- 1. Say the word.
- 2. Say the syllables that form it.
- 3. Spell and write each syllable.
- 4. Check your spelling by reading the word you wrote.

Teacher:

When spelling a multisyllabic word, first you say the word. For now, we'll say it aloud, but later, you may read the word silently. Then, you identify the syllables and spell and write the syllables together as a whole word. I'll model the steps, using the word *insist*.

I say the word: *insist*.

I say each syllable: *in-sist*.

I spell each syllable and write them together as a whole word.

[Write as you say the letters.]

Teacher: /in/, *i-n*; /sist/, *s-i-s-t*.

I read the word: *insist*.

Let's follow the same steps to spell another multisyllabic word. The word is *rotate*.

Repeat the word, please.

Students: rotate

Teacher: I say each syllable: *ro-tate*. Please repeat.

Students: ro-tate

Teacher: To spell each syllable, I use what I've learned about syllable types. /ro/ ends in a

long vowel sound, so it is an open syllable.

[Write each syllable as you say the letters.]

Teacher: I write r-o. /tat/ has a long vowel sound followed with a consonant, so it's a VCe

syllable. It's spelled *t-a-t-e*.

The last thing I do is check the word by reading it. Repeat after me.

[Point to each syllable as you say it.]

Teacher: *ro-tate, rotate*

Students: ro-tate, rotate

Teacher: Let's spell another word. I'll remind you of the steps to follow. The word is *volcano*.

Repeat the word.

Students: *volcano*

Teacher: Say each syllable.

Students: *vol-ca-no*

Teacher: Use what you've learned about syllable types to spell each syllable. Say and spell

each syllable and write the letters as you say them.

Students: /vol/, *v-o-l*; /cā/, *c-a*; /nō/, *n-o*

Teacher: Read the word to check your spelling. Point to each syllable as you say it, and then

say the whole word.

Students: *vol-ca-no, volcano*

Teacher: Excellent job! Let's practice spelling more multisyllabic words.

Continue dictating words for students to spell.

GUIDED PRACTICE: ACTIVITY 1

COMBINING SYLLABLES

DECODING

Compile syllable cards that combine to form real words. Show the cards that form a word. Have students read each syllable and then combine the syllables to form the word. Question students to reinforce and monitor their knowledge of syllable types.

Teacher: Each card I show you has a syllable on it. When the syllables are combined, they

form a word. Figure out how to say each syllable by its syllable type. Say each syllable as I point to it. When I slide my finger under both syllables, combine them

to say the whole word. I'll show you an example.

[Display **lim** and **bo**. Point to **lim**.]

Teacher: A consonant closes in the vowel. That means it's a closed syllable, which has a

short vowel sound: /lim/.

[Point to **bo**.]

Teacher: This syllable has one vowel that is open. The vowel is long in an open syllable: /bo/.

[Slide your finger under both syllables.]

Teacher: *Limbo*.

Now, it is your turn.

[Display rep and tile. Point to rep.]

Students: /rep/

[Point to tile.]

Students: /til/

[Slide your finger under both syllables.]

Students: reptile

Teacher: Excellent. Tanya, which syllable has a long vowel sound, and what is the vowel

sound?

Tanya: $/t\bar{\imath}$ /t says / $\bar{\imath}$ /.

Teacher: Next word.

[Display dol and phin. Point to dol.]

Students: /dol/

[Point to **phin**.]

Students: /fin/

[Slide your finger under both syllables.]

Students: *dolphin*

Teacher: Good job combining syllables! How many vowels in *dolphin*, Amanda, and which

ones?

Amanda: Two: o and i.

ADAPTATIONS

- Instead of using syllable cards, write syllables on the board.
- Display syllable cards for a word in random order and have students rearrange the cards to form the word (*ber cu cum* becomes *cucumber*). Have students then read the word.
- Display syllable cards that form a nonsense word. Have students read each syllable and then combine syllables to read the nonsense word.

GUIDED PRACTICE: ACTIVITY 2

SYLLABLE SQUARES DECODING

Before doing this activity, review how to locate a square, based on its grid coordinate.

Distribute the syllable squares worksheet, which has a 36-square grid with columns labeled A to F and rows labeled 1 to 6. A different word is in each square, including a variety of multisyllable words and a few single-syllable words. Place tokens with the grid coordinates (A1, A2, etc.) on them in a bag or box. Have a student pick a token from the bag. Write on the board the word from the square at that coordinate. Have students use the word reading strategy to underline the word's vowels and syllables on their worksheet. Have a student tell you how to mark the word's vowels and syllables on the board. Have students say the syllables and then say the whole word.

Teacher:

You have a grid with 36 squares and a word in each square. I have a bag with 36 tokens, each with a grid coordinate for a square. You'll take turns picking a token to determine the word that we will read. Use the word reading strategy to underline the word's vowels and word parts on your worksheet. I'll then write the word on the board, and you'll tell me how to underline its parts. Then we'll read the word.

I'll go first to demonstrate. I picked D2. Everyone, point to square D2.

[As students find the square, write the word **classic** on the board.]

Teacher: What is the first step in the word reading strategy, Amanda?

Amanda: You find the vowels: *a* and *i*.

Teacher: I'm going to underline each vowel.

[Underline **a** and **i**.]

Teacher: What is the next step, Eric?

Eric: Look for word parts you know. I see *class*.

Teacher: Excellent! I'll underline *class*.

[Underline class.]

Teacher: Do you see other word parts?

Eric: There's a closed syllable at the end: *ic*.

Teacher: Nicely done! You are really using what you know about syllable types

[Underline ic.]

Teacher: What's the next step, Tanya?

Tanya: Say the syllables.

[Point to class.]

Teacher: Say the first syllable, everyone.

Students: /klas/

[Point to ic.]

Teacher: Say the next syllable.

Students: /ik/

Teacher: Francisco, what's the final step?

Francisco: Say the word.

Teacher: Let's combine the syllables to say the word

[Slide your finger under the word.]

Students: classic

Teacher: Beautiful job. Amanda, your turn to pick a token.

Amanda: Square A5.

Teacher: Everyone point to A5.

[The word is entertain.]

Teacher: What is the first step?

Students: Find the vowels.

Teacher: Correct. Everyone, please underline the vowels. What did you underline, Francisco?

Francisco: I underlined *e*, *e*, *a*, *i*.

Teacher: What is the next step?

Francisco: Look for word parts or syllables that you know.

Teacher: Mark the word in the square to show where the syllables or word parts are.

[Students underline the word parts.]

Teacher: Amanda, please tell me the word parts you found.

Amanda: I see the word *enter*.

Teacher: Great job! Tanya, do you see other word parts or syllables?

Tanya: The last part of the word looks like a syllable with a letter combination: /tan/.

Teacher: Yes, that's right. Let's read the word parts together.

[Point to each word part.]

Students: *enter, tain*

Teacher: Now, combine the parts to read the word.

[Slide your finger under the whole word.]

Students: *entertain*

Continue applying the strategy to read words. Ask questions so students have an opportunity to demonstrate their understanding of syllable types and multisyllabic words.

TIP

Put the worksheet in a transparent page protector and use a dry-erase marker, so students can easily self-correct.

ADAPTATION

Choose a student to mark the word on the board.

GUIDED PRACTICE: ACTIVITY 3

SYLLABLE FOOTBALL

DECODING

Gather word cards that include of a variety of learned syllable types and multisyllabic words. Divide students into two teams. Show the game board as you explain how to play:

- 1. Choose the team that goes first (Team A).
- 2. Position the ball on the 50-yard line.
- 3. Have a student on Team A pick the top card from the stack, read the word, and identify the number of syllables in the word. (Make sure that all members of each team take turns reading words.)
- 4. If the student correctly reads the word and identifies the number of syllables, move the ball 10 "yards" per syllable toward the opposing team's (Team B) end zone.
- 5. If the student is incorrect, use questioning to guide him or her toward the correct answer, but do not move the ball. It is then the other team's turn.
- 6. Team B then picks a word, reads it, identifies the number of syllables, and, if correct, moves the ball toward Team A's end zone.
- 7. A team earns 1 point by crossing the opposing team's goal line and scoring a touchdown.
- 8. After a touchdown is scored, play resumes at the 50-yard line.

Assign students to teams and determine which team goes first.

Teacher: In this football game, teams scores points by correctly reading and identifying the

number of syllables in words. The ball starts in the middle of the field on the 50-yard line. A student on Team A picks a card from the pile, reads the word, and says how many syllables the word has. If the student is correct, he or she moves the ball toward Team B's end zone. The ball moves 10 yards for each syllable in the word. Then, a student on Team B picks a card, reads the word, and counts the syllables. If the student is correct, he or she moves the ball toward Team A's end zone. The

teams will take turns reading words.

Tanya, you're the first reader on Team A. Pick a card, read it, and say how many syllables it has.

Tanya: *Dis-re-spect*: three syllables.

Teacher: You did a good job saying the syllables. Be sure to combine the syllables to form

the whole word.

Tanya: disrespect

Teacher: Excellent! You read the word correctly and you said there are three syllables, so you

get to move the ball 30 yards toward Team B's end zone. While she is doing that,

who can tell me whether there is an open syllable in *disrespect*?

Francisco: It's the middle syllable: *re*.

Teacher: That's correct. Francisco, your turn to read a word for Team B.

[The word is **flake**.]

Francisco: *flakey*

Teacher: Look at the pattern at the end of the word.

[Point to the letters as you say them.]

Teacher: There's a vowel, *a*, a consonant, *k*, and an *e*. That's a VC*e* pattern.

Francisco: Oh, yeah, the *e* doesn't say anything.

Teacher: So what's the word?

Francisco: *flake*

Teacher: That's right.

[Team B's game piece does not move.]

Teacher: Now, it's Team A's turn.

Continue playing the game. Consider setting a time limit or a winning number of points.

GUIDED PRACTICE: ACTIVITY 4 =

SYLLABLE TYPE WORD SPELLING ENCODING

Distribute the worksheet, which has categories for each learned syllable type (closed syllable, open syllable, *r*-controlled, letter combination, VC*e*). Write the names of the syllable types on different sections of a spinner. Have a student spin. Dictate a word that contains that syllable type; the word may also contain other known syllable types. Have students write the word in the corresponding column and circle the corresponding syllable.

Teacher: We're going to spell multisyllabic words and reinforce what we have learned

about syllable types. We'll take turns with the spinner, which is labeled with the syllable types that we've learned. I'll dictate a word that contains the syllable type the spinner lands on. The word might also contain other syllable types, so listen carefully. You'll write the word in the worksheet category that matches where the spinner landed. After you write the word, circle the syllable that matches the

syllable type.

I'll review each of the steps as you spell the first word. Amanda, please spin.

[Amanda spins "letter combinations."]

Teacher: The word is *retreat*. Repeat the word.

Students: retreat

Teacher: Say each syllable.

Students: re-treat

Teacher: Point to the category where you will write the word.

[Students point to the letter combination column.]

Teacher: Use what you've learned about syllable types to spell each syllable aloud and on

paper.

[Students answer and write.]

Teacher: Could you spell it for us, Francisco?

Francisco: /re/, *r-e*; /tret/, *t-r-e-a-t*

Teacher: Now, everyone read the word to check your spelling. Point to each syllable as you

say it and then say the whole word.

Students: re-treat, retreat

Teacher: Now, circle the letter combination syllable.

[Students circle treat.]

Teacher: Good job! Eric, explain why you circled *treat*.

Eric: The *e* and *a* go together. They make one sound.

Teacher: That's right. They are a combination of letters that make the vowel sound in the

syllable. Amanda, look at the other syllable, re. Is it an open syllable or closed

syllable? Be sure you can explain your answer.

Amanda: It's an open syllable because the *e* makes a long sound.

Continue spinning and dictating words.

TIP

Prepare several words for each syllable type, as it can be difficult to think of them on the spot.

ADAPTATIONS

- Include a "free choice" category on the spinner. When landed on, the student gets to choose any syllable type.
- At the end of the activity, read all the words, category by category.

INDEPENDENT PRACTICE: ACTIVITY 1:

SYLLABLE GRAB

DECODING

Place 15 to 20 initial syllable cards in one bag and 15–20 final syllable cards in another bag. Have each student take 3 to 5 cards from each bag and form as many real and nonsense words as possible in 1 minute. After the 1 minute, have students read their words to a partner. Return the cards to the bags and repeat the activity.

ADAPTATIONS

- Instead of returning the cards to the bag, have students trade cards with one another.
- Include a bag with middle syllable cards, so students form and read three-syllable words.

INDEPENDENT PRACTICE: ACTIVITY 2

SYLLABLE SEEKER

DECODING

Distribute copies of a decodable, high-interest text. Have students read the text and underline multisyllabic words. With a partner or the group, have students take turns reading the sentences that contain the multisyllabic words.

INDEPENDENT PRACTICE: ACTIVITY 3 =

BEGINNING WITH...

ENCODING

Place 26 tokens, each with a letter on it, in a bag. Have a student pick a token from the bag. Dictate a word that begins with that letter (or dictate a word that begins with *ex* if a student draws the *x* token). Have all students write the word on a whiteboard.

TIPS

- Prepare a list of words beginning with each letter of the alphabet.
- Carry over this activity day to day until all letters of the alphabet are used.

ADAPTATIONS

- Write the alphabet on the board and erase each letter as it is used.
- Give students a worksheet with an alphabet grid. Have students write each word in the square that corresponds to the initial letter.

MONITOR LEARNING
Note areas of difficulty and provide extra practice. Provide review of syllable types as necessary.
GENERALIZATION
Read a content area text with the students. Ask students to notice how many multisyllabic words

Read a content area text with the students. Ask students to notice how many multisyllabic words there are and how the strategy helps students to read many more words and to understand what they read.

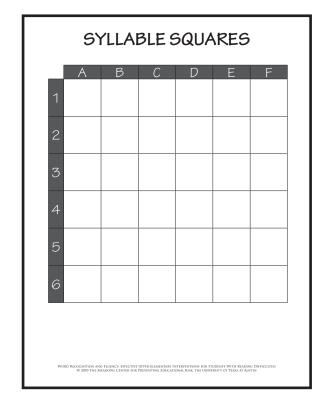
LESSO	N 13 WORD	CARDS
Atlantic	consist	decay
activate	Ьгопсо	debate

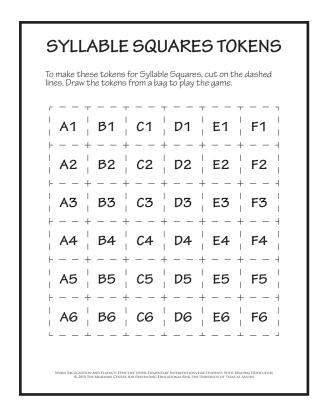
First of 6 pages

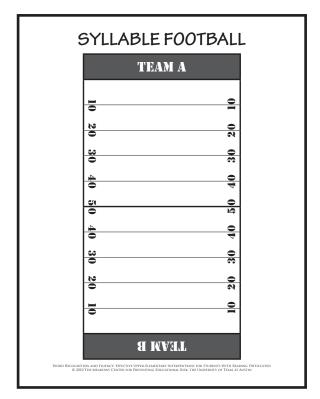
SY	LLABLE CAR	DS
con flict	ba sin	de clare

First of 14 pages: Two- and three-syllable words included

1	A	B decay	C	D basic	E unfold	F
	ļ		F			
2	stride	loudly	missed	classic	complete	farmland
3	stampede	object	lumber	least	divide	gardener
4	relocate	withdraw	orbit	forest	unlawful	educate
5	entertain	follow	event	clearing	repay	started
6	profit	grant	messy	destroy	form	enlist

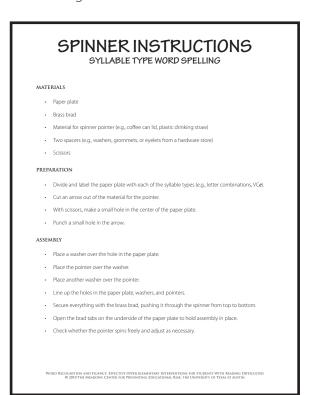


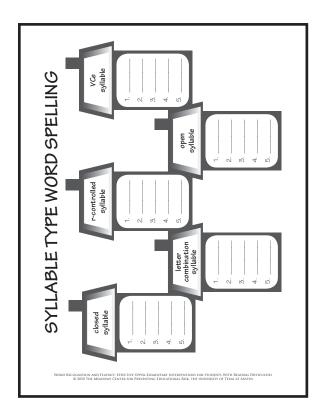




First of 4 pages: 3 rearrangements of the same list included

WIND RECOGNITION AND FRANCY, EFFECTIVE UPPER ELEMENTARY INTERVISIONS FOR STUDENTS WITH RADING DIFFERENCE OF 2010 THE MELADING CHYLE FOR FRANCHISCHEMAN ROL. THE UNIVERSITY OF TEXAS AS ASSTOR.







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Taking a Closer Look

Skill: Multisyllabic word reading

Examine the lesson and complete the chart. Specifically state how the lesson addresses each element.

Explicit, Systematic Instruction		
M. I.P.		
Modeling		
Scaffolded Practice		
Progress Monitoring		

Grade 5 Reading to Learn Academy			

References

- Abbott, R. D., Berninger, V. W., & Fayol, M. (2010). Longitudinal relationships of levels of language in writing and between writing and reading in grades 1 to 7. *Journal of Educational Psychology*, 102(2), 281–298.
- Adams, M. J. (1990). Beginning to read: Thinking and learning about print. Cambridge, MA: MIT Press.
- Adams, M. J. (2001). Alphabetic anxiety and explicit, systematic phonics instruction: A cognitive science perspective. In S. Neuman & D. Dickinson (Eds.), *Handbook of early literacy research* (pp. 66–80). New York, NY: Guilford Press.
- Adams, M. J., Foorman, B. R., Lundberg, I., & Beeler, T. (1998). The elusive phoneme: Why phonemic awareness is so important and how to help children develop it. *American Educator*, 22(1), 18–29.
- Adams, M. J., Treiman, R., & Pressley, M. (1998). Reading, writing, and literacy. In I. Sigel & K. Renninger (Eds.), *Handbook of child psychology, Vol. 4: Child psychology into practice* (5th ed., pp. 275–355). New York, NY: Wiley.
- Ahmed, Y., Wagner, R. K., & Lopez, D. (2104). Developmental relations between reading and writing at the word, sentence, and text levels: A latent change score analysis. *Journal of Educational Psychology*, 106(2), 419–434.
- Archer, A., & Hughes, C. (2011). Explicit instruction. New York, NY: Guilford Press.
- Armbruster, B. B., Lehr, F., & Osborn, J. (2001). Put reading first: The research building blocks for teaching children to read. Jessup, MD: National Institute for Literacy.
- August, D., McCardle, P., Shanahan, T., & Burns, M. (2014). Developing literacy in English language learners: Findings from a review of the experimental research. *School Psychology Review*, 43(4), 490–498.
- Azurdía, E. (1998). Integrando la fonética en el proceso de lectura en español. In A. Carrasquillo & P. Segan (Eds.), *The teaching of reading in Spanish to the bilingual student* (pp. 87–100). Mahwah, NJ: Erlbaum.
- Bear, D. R., Invernizzi, M., Templeton, S., & Johnston, F. (2012). Words their way: Word study for phonics, vocabulary, and spelling instruction (6th ed.). Columbus, OH: Pearson.
- Bear, D. R., & Templeton, S. (1998). Explorations in developmental spelling: Foundations for learning and teaching phonics, spelling, and vocabulary. *The Reading Teacher*, 52(3), 222–242.
- Berninger, V. W., Vaughan, K., Abbott, R. D., Begay, K., Coleman, K. B., Curtin, G., . . . Graham, S. (2002). Teaching spelling and composition alone and together: Implications for the simple view of writing. *Journal of Educational Psychology*, 94(2), 291–304.
- Blachman, B. A., Ball, E. W., Black, R., & Tangel, D. M. (2000). Road to the code: A phonological awareness program for young children. Baltimore, MD: Brookes.

- Bos, C. S., & Vaughn, S. (2002). Strategies for teaching students with learning and behavior problems (5th ed.). Boston, MA: Allyn and Bacon.
- Caravolas, M., Hulme, C., & Snowling M. J. (2001). The foundations of spelling ability: Evidence from a 3-year longitudinal study. *Journal of Memory and Language*, 45, 751–774.
- Carnine, D. W., Silbert, J., & Kame'enui, E. J. (1997). *Direct instruction reading* (3rd ed.). Upper Saddle River, NJ: Prentice Hall.
- Carreker, S. (2005a). Teaching reading: Accurate decoding and fluency. In J. R. Birsh (Ed.), *Multisensory teaching of basic language skills* (pp. 213-255). Baltimore, MD: Brookes.
- Carreker, S. (2005b). Teaching spelling. In J. R. Birsh (Ed.), *Multisensory teaching of basic language skills* (pp. 257-295). Baltimore, MD: Brookes.
- Carroll, J. B., Davies, P., & Richman, B. (1971). *The American heritage world frequency book*. Boston, MA: Houghten Mifflin.
- Chall, J. S., & Popp, H. M. (1996). *Teaching and assessing phonics: Why, what, when, how.* Cambridge, MA: Educators.
- Chard, D. J., & Osborn, J. (1999). Word recognition instruction: Paving the road to successful reading. *Intervention in School and Clinic*, 34(5), 271–277.
- Chard, D. J., Simmons, D. C., & Kame'enui, E. J. (1998). Word recognition: Instructional and curricular basics and implications. In D. Simmons & E. Kame'enui (Eds.), What reading research tells us about children with diverse learning needs: Bases and basics (pp. 169–181). Mahwah, NJ: Erlbaum.
- Conrad, N. J. (2008). From reading to spelling and spelling to reading: Transfer goes both ways. *Journal of Educational Psychology*, 100(4), 869–878.
- Coyne, M. D., Zipoli Jr., R. P., & Ruby, M. F. (2006). Beginning reading instruction for students at risk for reading disabilities: What, how, and when. Intervention in School and Clinic, 40(3), 161–168.
- Cummins, J. (2003). Reading and the bilingual student: Fact and friction. In G. Garcia (Ed.), *English learners: Reaching the highest level of English literacy* (pp. 2–33). Newark, DE: International Reading Association.
- Cunningham, J. W., Spadorica, S. A., Erickson, K. A., Koppenhaver, D. A., Sturm, J. M., & Yoder, D. E. (2005). Investigating the instructional supportiveness of leveled texts. *Reading Research Quarterly*, 40(4), 410–427.
- Cunningham, P. M. (2000). *Phonics they use: Words for reading and writing* (3rd ed.). New York, NY: Addison-Wesley Longman.
- Cunningham, P. M., & Allington, R. L. (1999). *Classrooms that work: They can all read and write* (2nd ed.). New York, NY: Addison-Wesley Longman.
- Cunningham, P. M., & Hall, D. P. (1994). *Making words: Multilevel, hands-on, developmentally appropriate spelling and phonics activities.* Carthage, IL: Good Apple.

- Deacon, S. H., Kirby, J. R., & Casselman-Bell, M. (2009). How robust is the contribution of morphological awareness to general spelling outcomes? *Reading Psychology*, *30*, 301–318.
- Dehaene, S. (2009). Reading in the brain. New York, NY: Viking.
- Denton, C. A., Fletcher, J. M., Taylor, W. P., Barth, A. E., & Vaughn, S. (2014). An experimental evaluation of Guided Reading and explicit interventions for primary-grade students at risk for reading difficulties. *Journal of Research on Educational Effectiveness*, 7, 268–293.
- Diamond, L., & Gutlohn, L. (2006). *Vocabulary handbook*. Berkeley, CA: Consortium on Reading Excellence.
- Ebbers, S. (2005). Language links to Latin, Greek, and Anglo-Saxon: Increasing spelling, word recognition, fluency, vocabulary, and comprehension through roots and affixes. Presented at The University of Texas, Austin, TX.
- Ebbers, S. M. (2011). Vocabulary through morphemes (2nd ed.). Longmont, CO: Sopris West.
- Ehri, L. C. (1998). Grapheme-phoneme knowledge is essential for learning to read words in English. In J. Metsala & L. Ehri (Eds.), *Word recognition in beginning literacy* (pp. 3–40). Mahwah, NJ: Erlbaum.
- Ehri, L. C. (2014). Orthographic mapping in the acquisition of sight word reading, spelling memory, and vocabulary learning. *Scientific Studies of Reading*, *18*(1), 5–21.
- Ehri, L. C., Nunes, S. R., Willows, D. M., Schuster, B. V., Yaghoub-Zadeh, Z., & Shanahan, T. (2001). Phonemic awareness instruction helps children learn to read: Evidence from the National Reading Panel's meta-analysis. *Reading Research Quarterly*, 36(3), 250–287.
- Ehri, L. C., Satlow, E., & Gaskins, I. (2009). Grapho-phemic enrichment strengthens keyword analogy instruction for struggling young readers. *Reading & Writing Quarterly*, 25, 162–191.
- Escamilla, K. (2000). Teaching literacy in Spanish. In J. Tinajero & R. DeVillar (Eds.), *The power of two languages 2000: Effective dual-language use across the curriculum* (pp. 126–141). New York, NY: McGraw-Hill.
- Farrall, M. L. (2012). Reading assessment: Linking language, literacy, and cognition. Hoboken, NJ: John Wiley & Sons.
- Felton, R. H. (1993). Effects of instruction on the decoding skills of children with phonological processing problems. *Journal of Learning Disabilities*, 26, 583–589.
- Foorman, B. R. (1995). Research on "the great debate": Code-oriented versus whole language approaches to reading instruction. *School Psychology Review*, 24(3), 376–392.
- Foorman, B. R., & Moats, L. C. (2004). Conditions for sustaining research-based practices in early reading instruction. *Remedial and Special Education*, 25(1), 51–60.
- Foorman, B. R., & Torgesen, J. (2001). Critical elements of classroom and small-group instruction promote reading success in all children. *Learning Disabilities Research & Practice*, 16(4), 203–212.

- Fry, E. B., & Kress, J. E. (2006). *The reading teacher's book of lists* (5th ed.). San Francisco, CA: Jossey-Bass.
- Ganske, K. (2000). Word journeys: Assessment-guided phonics, spelling, and vocabulary instruction. New York, NY: Guilford Press.
- Gaskins, I. W., Ehri, L. C., Cress, C., O'Hara, C., & Donnelly, K. (1996–1997). Procedures for word learning: Making discoveries about words. *The Reading Teacher*, 50(4), 312–327.
- Goldenberg, C. (2008). Teaching English language learners: What the research does—and does not—say. *American Educator* (Summer), 8–44.
- Goodwin, A. P., August, D., & Calderon, M. (2015). Reading in multiple orthographies: Differences and similarities in reading in Spanish and English for English learners. *Language Learning*, 65(3), 596–630.
- Goswami, U. (1998). Rime-based coding in early reading development in English: Orthographic analogies and rime neighborhoods. In C. Hulme & R. Joshi (Eds.), *Reading and spelling: Development and disorders* (pp. 69–86). Mahwah, NJ: Erlbaum.
- Gough, P. (1997, May). *Critical connections: Research on early reading instruction*. Presentation for the International Reading Association, Houston, TX.
- Grace, K. E. S. (2007). *Phonics and spelling through phoneme-grapheme mapping*. Longmont, CO: Sopris West.
- Gunning, T. G. (2002). Assessing and correcting reading and writing difficulties (2nd ed.). Boston, MA: Allyn & Bacon.
- Helman, L. A. (2004). Building on the sound system of Spanish: Insights from the alphabetic spellings of English-language learners. *The Reading Teacher*, *57*(5), 452–460.
- Henry, M. K. (2010). *Unlocking literacy: Effective decoding and spelling instruction* (2nd ed.). Baltimore, MD: Paul H. Brookes.
- Hickman County School Systems. (2015). *West Virginia Reading First phonics lessons*. Retrieved from http://hickmank12.org/west-virginia-reading-first-explicit-phonics-lessons/
- Hiebert, E. H. (1999). Text matters in learning to read. The Reading Teacher, 52(6), 552–566.
- Jeynes, W. H. (2008). A meta-analysis of the relationship between phonics instruction and minority elementary school student academic achievement. *Education and Urban Society*, 40(2), 151–166.
- Joshi, R. M., Trieman, R., Carreker, S., & Moats, L. C. (2008–2009). How words cast their spell: Spelling is an integral part of learning the language, not a matter of memorization. *American Educator*, 6–16, 42–43.
- Juel, C., & Minden-Cupp, C. (2000). Learning to read words: Linguistic units and instructional strategies. *Reading Research Quarterly*, 35(4), 458–492.

- Juel, C., & Roper-Schneider, D. (1985). The influence of basal readers on first grade reading. *Reading Research Quarterly*, 20(2), 134–152.
- Kearns, D., Steacy, L. M., Compton, D. L., Gilbert, J. K., Goodwin, A., Cho, E., . . . Collins, A. (2016). Modeling polymorphemic word recognition: Exploring differences among children with early-emerging and late-emerging word reading difficulty. *Journal of Learning Disabilities*, 49(4), 368–394.
- Kilpatrick, D. A. (2015). Essentials of assessing, preventing, and overcoming reading difficulties. Hoboken, NJ: John Wiley & Sons.
- Learning First Alliance. (2000). Every child reading: A professional development guide. Washington, DC: Author.
- Lems, K., Miller, L. D., & Soro, T. M. (2009). *Teaching reading to English language learners: Insights from linguistics*. New York: Guilford Press.
- Lesaux, N. K. (2006). Development of literacy of language minority learners. In D. August & T. Shanahan (Eds.), *Developing literacy in a second language: Report of the National Literacy Panel* (pp. 75–122). Mahwah, NJ: Lawrence Erlbaum Associates.
- Martin-Chang, S., Ouellette, G., & Madden, M. (2014). Does poor spelling equate to slow reading? The relationship between reading, spelling, and orthographic quality. *Reading and Writing: An Interdisciplinary Journal*, 27(8), 1485–1505.
- McCardle, P., & Chhabra, V. (Eds.) (2004). *The voice of evidence in reading research*. Baltimore, MD: Paul H. Brookes Publishing.
- McCutchen, D., Harry, D. R., Cunningham, A. E., Cox, S., Sidman, S., & Covill, A. E. (2002). Reading teachers' knowledge of children's literature and English phonology. *Annals of Dyslexia*, 52, 207–228.
- McGuinness, D. (1997). Why our children can't read and what we can do about it. New York, NY: Free Press.
- Mesmer, H. A. E. (1999). Scaffolding a crucial transition using text with some decodability. The Reading Teacher, 53(2), 130–142.
- Mesmer, H. A. E. (2001). Decodable text: A review of what we know. *Reading Research and Instruction*, 40(2), 121–142.
- Mesmer, H. A. E. (2005). Text decodability and the first-grade reader. *Reading & Writing Quarterly*, 21, 61–86.
- Moats, L. C. (1995). Spelling: Development, disability, and instruction. Baltimore, MD: York Press.
- Moats, L. C. (1998). Teaching decoding. American Educator, 22(2), 42–49, 95.
- Moats, L. C. (1999). Teaching is rocket science: What expert teachers of reading should know and be able to do. Washington, DC: American Federation of Teachers.
- Moats, L. C. (2005). How spelling supports reading. *American Educator*, 29(4), 12–43.

- Moats, L. C. (2009a). The speech sounds of English: Phonetics, phonology, and phoneme awareness (2nd ed.). Longmont, CO: Sopris West.
- Moats, L. C. (2009b). *Spellography for teachers: How English spelling works* (2nd ed.). Longmont, CO: Sopris West.
- Moats, L. C. (2010). *Speech to print: Language essentials for teachers* (2nd ed.). Baltimore, MD: Brookes.
- Moats, L. C., & Tolman, C. (2009). *The challenge of learning to read* (2nd ed.). Longmont, CO: Sopris West.
- Moustafa, M., & Maldonado-Colón, E. (1999). Whole-to-part phonics instruction: Building on what children know to help them know more. *The Reading Teacher*, 52(5), 448–458.
- National Institute for Literacy. (2001). *Reading: Know what works. A practical guide for educators.*Washington, DC: Office of Elementary and Secondary Education.
- 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*. Washington, DC: National Institute of Child Health and Human Development.
- Neuhaus Education Center. (1992). Reading readiness. Bellaire, TX: Author.
- Nicholson, T. (1991). Do children read words better in context or in lists? A classic study revisited. *Journal of Educational Psychology*, 83(4), 444–450.
- Peregoy, S., & Boyle, O. (2005). *Reading, writing and learning in ESL* (4th ed.). New York, NY: Addison-Wesley Longman.
- Pollard-Durodola, S. D., & Simmons, D. C. (2009) The role of explicit instruction and instructional design in promoting phonemic awareness development and transfer from Spanish to English. *Reading & Writing Quarterly*, 25, 139–161.
- Pressley, M. (1998). Reading instruction that works: The case for balanced teaching. New York, NY: Guilford Press.
- Pressley, M. (2006). Reading instruction that works: The case for balanced teaching (3rd ed.). New York, NY: Guilford Press.
- Rasinski, T., & Padak, N. (2004). Beyond consensus—Beyond balance: Toward a comprehensive literacy curriculum. *Reading & Writing Quarterly*, 20, 91–102.
- Rayner, K., Foorman, B. F., Perfetti, C. A., Pesetsky, D., & Seidenberg, M. S. (2002). How should reading be taught? *Scientific American*, 286(3), 84–91.
- Rayner, K., & Pollatsek, A. (1989). The psychology of reading. Englewood Cliffs, NJ: Prentice-Hall.
- Riches, C., & Genesee, F. (2006). *Literacy: Crosslinguistic and crossmodal issues*. In F. Genesee, K. Lindholm-Leary, W. Saunders, & D. Christian (Eds.), *Educating English language learners* (pp. 64–108). New York, NY: Cambridge University Press.
- Rowling, J. K. (1998). Harry Potter and the chamber of secrets. New York, NY: Scholastic.

- Rupley, W. H., Blair, T. R., & Nichols, W. D. (2009). Effective reading instruction for struggling readers: The role of direct/explicit teaching. *Reading & Writing Quarterly*, 25, 125–138.
- Ryan, R. M., & Deci, E. L. (2000). Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *American Psychologist*, *55*(1), 68–78.
- Sander, E. K. (1972). When are speech sounds learned? *Journal of Speech and Hearing Disorders*, 37(1), 55-63.
- Schwanenflugel, P. J., Meisinger, E. B., & Wisenbaker, J. M. (2006). Becoming a fluent and automatic reader in the early elementary school years. *Reading Research Quarterly*, 41(4), 496–522.
- Shapiro, L. R., & Solity, J. (2008). Delivering phonological and phonics training within whole-class teaching. *British Journal of Educational Psychology*, 78, 597–620.
- Sharp, C. A., Sinatra, G. M., & Reynolds, R. E. (2008). The development of children's orthographic knowledge: A microgenetic perspective. *Reading Research Quarterly*, 43(3), 206–226.
- Snow, C. E., Burns, M. S., & Griffin, P. (Eds.). (1998). Preventing reading difficulties in young children. Washington, DC: National Academy Press.
- Spear-Swerling, L., & Brucker, P. O. (2003). Teachers' acquisition of knowledge about English word structure. *Annals of Dyslexia*, 53, 72–103.
- Spear-Swerling, L., & Brucker P. O. (2004). Preparing novice teachers to develop basic reading and spelling skills in children. *Annals of Dyslexia*, *54*(2), 332–364.
- Stahl, S., & Kapinus, B. (2001). *Word power: What every educator needs to know about teaching vocabulary*. Washington, DC: National Education Association.
- Stanovich, K. E. (1980). Toward an interactive-compensatory model of individual differences in the development of reading fluency. *Reading Research Quarterly*, 16(1), 32–71.
- Stanovich, K. E. (1993). Romance and reality. The Reading Teacher, 47(4), 280–291.
- Stanovich, K. E. (2000). *Progress in understanding reading: Scientific foundations and new frontiers*. New York, NY: Guilford Press.
- Templeton, S. (1996). Spelling: The foundation of word knowledge for the less-proficient reader. In L. Putnam (Ed.), *How to become a better reading teacher* (pp. 317–329). Englewood Cliffs, NJ: Merrill/Prentice-Hall.
- Templeton, S., & Morris, D. (1999). Questions teachers ask about spelling. *Reading Research Quarterly*, 34(1), 102–112.
- Templeton, S., & Morris, D. (2000). Spelling. In M. Kamil, P. Mosenthal, P. Pearson, & R. Barr (Eds.), *Handbook of reading research* (Vol. 3, pp. 525–543). Mahwah, NJ: Erlbaum.
- Texas Education Agency. (2009). *Texas essential knowledge and skills (TEKS)*. Retrieved from http://tea.texas.gov/curriculum/teks/

- Torgerson, C. J., Brooks, G., & Hall, J. (2006). A systematic review of the research literature on the use of phonics in the teaching of reading and spelling. London, UK: Department of Education and Skills.
- Torgesen, J. K. (1998). Catch them before they fall: Identification and assessment to prevent reading failure in young children. *American Educator*, 22(1), 32–39.
- Torgesen, J. K. (1999). Assessment and instruction for phonemic awareness and word recognition skills. In H. Catts & A. Kamhi (Eds.), *Language and reading disabilities* (pp. 128–153). Boston, MA: Allyn & Bacon.
- Torgesen, J. K., & Davis, C. (1996). Individual difference variables that predict response to training in phonological awareness. *Journal of Experimental Child Psychology*, 63, 1–21.
- Torgesen, J. K., & Mathes, P. (2000). A basic guide to understanding, assessing, and teaching phonological awareness. Austin, TX: PRO-ED.
- Toste, J. R., Williams, K. J., & Capin, P. (2016). Reading big words: Instructional practices to promote multisyllabic word reading fluency. *Intervention in School and Clinic*. Advance online publication.
- Treiman, R. (1998). Why spelling? The benefits of incorporating spelling into beginning reading instruction. In J. Metsala & L. Ehri (Eds.), Word recognition in beginning literacy (pp. 289–313). Mahwah, NJ: Erlbaum.
- University of Texas Center for Reading and Language Arts. (2003). *Special education reading project secondary institute—Effective instruction for secondary struggling readers: Research-based practices*. Austin, TX: Author.
- Vadasy, P. F., Sanders, E. A., & Peyton, J. A. (2005). Relative effectiveness of reading practice or word-level instruction in supplemental tutoring: How text matters. *Journal of Learning Disabilities*, 38(4), 364–380.
- Vaughn, S., & Linan-Thompson, S. (2004). *Research-based methods of reading instruction, K*–3. Alexandra, VA: Association for Supervision & Curriculum Development.
- Venezky, R. L. (1999). The American way of spelling: The structure and origins of American English orthography. New York, NY: Guilford Press.
- Vousden, J. I. (2008). Units of English spelling-to-sound mapping: A rational approach to reading instruction. *Applied Cognitive Psychology*, 22, 247–272.
- Wanzek, J., Harbor, A., & Vaughn, S. (2010). Word recognition and fluency: Effective upperelementary interventions for students with reading difficulties. Austin, TX: The Meadows Center for Preventing Educational Risk.
- Weiser, B. L. (2012). Ameliorating reading disabilities early: Examining an effective encoding and decoding prevention instruction model. *Learning Disabilities Quarterly*, 36(3), 161–177.

- Weiser, B. L., & Mathes, P. (2011). Using encoding instruction to improve the reading and spelling performances of elementary students at risk for literacy difficulties: A best-evidence synthesis. *Review of Educational Research*, 81(2), 170–200.
- White, T. G. (2005). Effects of systematic and strategic analogy-based phonics on grade 2 students' word reading and reading comprehension. *Reading Research Quarterly*, 40(2), 234–255.
- Wolf, M. (2007). *Proust and the squid: The story and science of the reading brain*. New York, NY: HarperCollins.
- Wolter, J. A., Wood, A., & D'zatko, K. W. (2009). The influence of morphological awareness on the literacy development of first-grade children. *Language, Speech, and Hearing Services in Schools*, 40, 286–298.
- Wyse, D., & Goswami, U. (2008). Synthetic phonics and the teaching of reading. *British Educational Research Journal*, 34(6), 691–710.
- Zeno, S. M., Ivens, S. H., Millard, R. T., & Duvvuri, R. (1995). *The educator's word frequency guide*. Brewster, NY: Touchstone Applied Science Associates.

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