

From Letters to Sounds and Back Again

Reading and Writing Long Words

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Overview

- Why is it important to do science-based reading and writing instruction?
- Why is spelling important?
- How do spelling and reading connect?
- What does spelling require that reading does not?
- How can we reinforce both skills?

We are going to explore reading because...

- It provides a case study how scientific principles affect our understanding of learning
- I don't know anything about math

Why is it important to do science-based reading and writing instruction?

Learning to read and write without scientific instruction affected my family

My sister struggled to learn to read

My sister, age 3

I tried to help but didn't know how

Her brother, age 7

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Learning to read and write without scientific instruction affected my students

Sergio & Rosa

Jaime & Adolfo

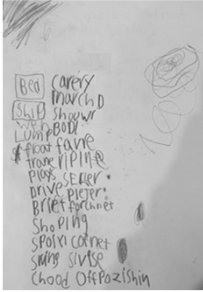
Mr. Kearns teaching 3rd grade

Wilson Elementary

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Learning to read and write without scientific instruction affects many children



- Noah's spelling shows difficulty with...
 - advanced vowels
 - polysyllabic words
 - morphologically complex words
 - handwriting
 - attention

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Are handwriting and spelling important?

for practical reasons

- Writing quality is first judged on spelling and handwriting
- Children want to spell things correctly

for evidence-based reasons

- spelling skill predicts word recognition skill
- spelling skill predicts written composition quality

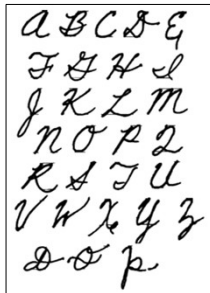
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Ahmed et al. (2022):

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Let's write some words...

- Remember to use the alphabet letters to the right.
- The bottom row is for
 - /ð/
 - /θ/
 - /ð/ (alternate spelling)



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Let's write some words...

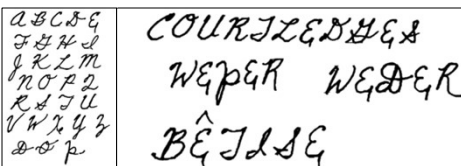
Answers

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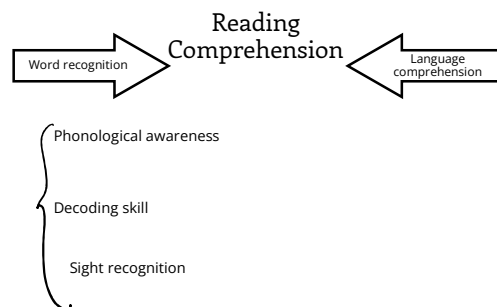
Turn and Talk: How did the writing go?

- To what extent were you successful?
- What contributed to your success or difficulty?
- How did you feel?



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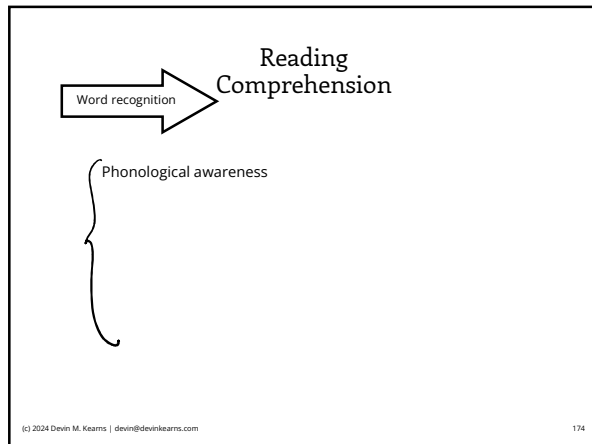
156



adapted from Scarborough (2001): Scarborough, H. (2001). Connecting early language and literacy to later reading (dis)abilities: Evidence, theory, and practice. In S. Neuman & D. Dickinson (Eds.), *Handbook for research in early literacy* (pp. 97-110). New York, NY: Guilford Press

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Phonological awareness in Peter Rabbit

Once upon a time there were four little Rabbits, and their names were Flopsy, Mopsy, Cotton-tail, and Peter. They lived with their Mother in a sand-bank, underneath the root of a very big fir-tree.

...allows us to blend syllables

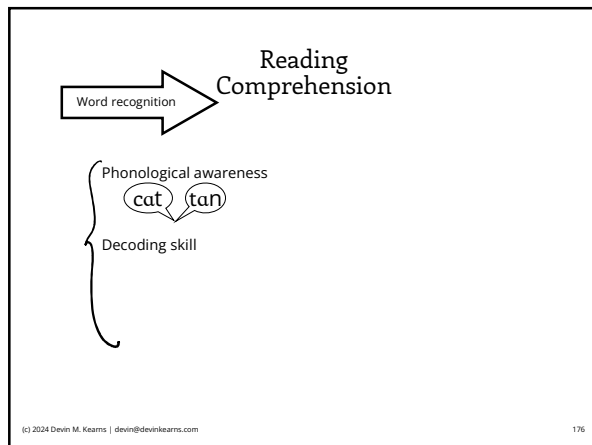
cat tan 'ca? in

the ability to detect and manipulate sound units in words

...allows us to blend phonemes

b æ n k bɛŋk

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Decoding Skill

Once upon a time there were four little Rabbits, and their names were Flopsy, Mopsy, Cotton-tail, and Peter. They lived with their Mother in a sand-bank, underneath the root of a very big fir-tree.

1. Identifying letter-sound connections

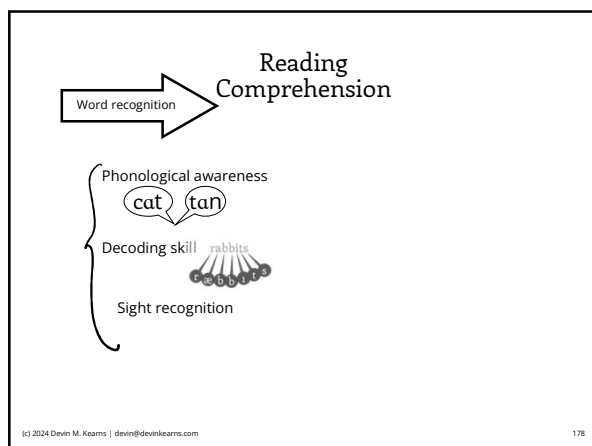
r r

2. Combining letter-sounds to read unfamiliar words

'ræb its

abbits

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Sight recognition

Once upon a time there were four little Rabbits, and their names were Flopsy, Mopsy, Cotton-tail, and Peter. They lived with their Mother in a sand-bank, underneath the root of a very big fir-tree.

immediate recognition of previously encountered words

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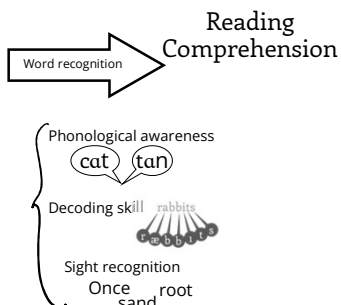
Sight recognition

Once upon a time there were four little Rabbits, and their names were Flopsy, Mopsy, Cotton-tail, and Peter. They lived with their Mother in a **sand**-bank, underneath the **root** of a very big fir-tree.

immediate recognition of previously encountered words

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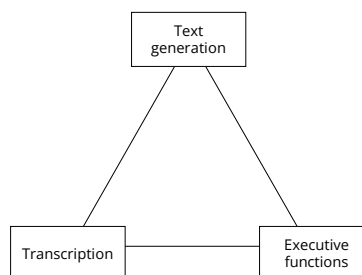
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There are many models of written composition

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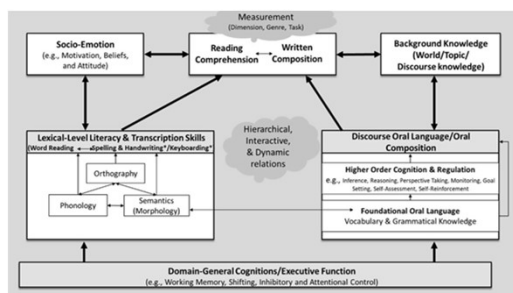
Not-so-simple view of writing



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Expanded Direct and Indirect Effects Model of Writing



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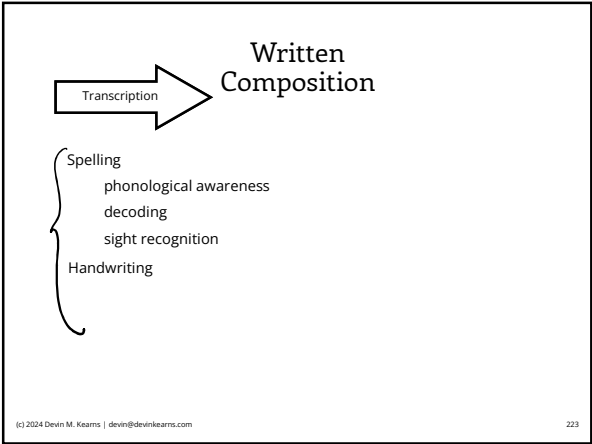
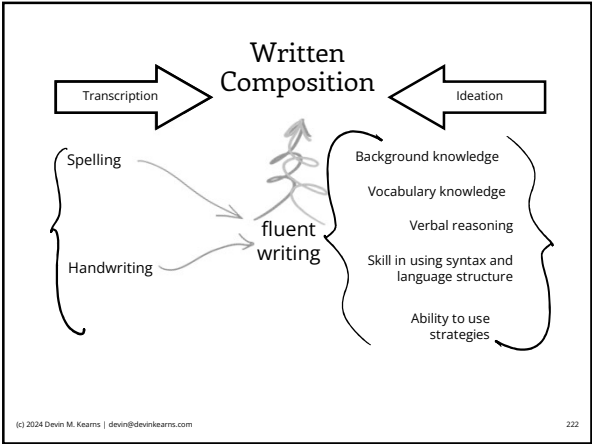
Written composition means using the elements of a simple(ish) view of writing



Hoover & Gough, 1990

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What kind of instruction will help?	
Decoding using sound-spellings	

Decoding using sound-spellings	
Value of teaching decoding (phonics)	

Writing systems differ in the way the printed words represent spoken language (and have for a long time)

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There are various written units

pictogram lip character shows literal meaning	 wood character shows literal meaning	ideogram place character shows abstract meaning	 three character shows abstract meaning
 character represents spoken syllable /sa/ syllabogram	 /f/ glyph		

Reading and Writing

Φ glyphs are *letters*

individual
characters
that
represent
/saʊndz/

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Φ Greek has 24 *letters*

Α Β Γ Δ Ε Ζ Η Θ Ι
Κ Λ Μ Ν Ξ Ο Π
Ρ Σ Τ Υ Φ Χ Ψ Ω

upper case

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Φ Greek has 24 *letters*

α β γ δ ε ζ η θ ι
κ λ μ ν π ρ σ ς
τ υ φ χ ψ ω

lower case

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Цырылық has 30 to 33 *letters*

Аа Бб Вв Гг Дд Ее
Ёё Жж Зз Ии Йй Кк
Лл Мм Нн Оо Пп Рр
Сс Тт Уу Фф Хх Цц
Чч Шш Щщ Ъъ Ыы
Ьь Ээ Юю Яя

and about an equal
number lower case

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English has 26 *letters*

A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z

upper case

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English has 26 *letters*

a b c d e f g h
i j k l m n o p
q r s t u v w x
y z

lower case

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English is an alphabetic language that follows the **alphabetic principle**

alphabetic principle	Letters represent sounds.
----------------------	---------------------------

The letter *m* represents the sound /m/.

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Other languages also follow the **alphabetic principle**

other languages that use the Latin alphabet	dansk	italiano	español
	Deutsch	français	íslenska
	norsk	Nederlands	suomi

The letter *m* represents the sound /m/.

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Languages without a Latin script also follow the **alphabetic principle**

letters that represent /m/ include

М *М* in Ukrainian

م *م* *م* *م* in Arabic

ม in Thai

μ *Μ* in Greek

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In English, the **alphabetic principle** involves...

sounds phonemes	letters graphemes	grapheme-phoneme correspondences sound-spellings
/æ/ /b/ /k/ /d/	a c d b26	a = /æ/ d = /d/ many
	multi-letter graphemes	c = /k/ many
	ch ea igh	ch = /tʃ/ many
		c = /s/

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Stop & Jot

Many sound-spellings? Let's see...

Think about a word that has the long *E* sound.

How is the long *E* sound spelled in that word?

Here's one: *E* as in *equal*

How many other ways is long *E* spelled?

many

many

many

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Stop & Jot: How many ways can you spell the long *E* sound?

Write all the spellings you know for the sound /i/. (/ē/) long *E*

Word	Spelling
<i>equal</i>	<i>E</i>

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Stop & Jot: How many ways can you spell the long *E* sound?

YES

about **8** graphemes
for **1** phoneme

Word	Spelling
<i>equal</i>	<i>E</i>

What does this mean about teaching phonics ?

The sound-
spelling system
is so complex...

is teaching about
sound-spellings
really worth it?

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What is phonics?

- A system
 - taught by teachers
 - practiced by students
 - In which
 - letters or letter combinations are linked to sounds or sound combinations
 - the sounds are assembled to pronounce a word
- Usually, phonics provides the student with a written representation for a known word
 - a student has already heard but has not seen in print

English has a complex orthography

It is a **deep** orthography where sound-spellings
writing system are quasiregular

rather than a **shallow** writing system where the letters
really reliably
represent the sounds

Finnish is shallow.

aakkoset

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It is true that the alphabetic principle is a little more consistent in other languages...

Researchers tested reading skills across languages ...

- with Grade 1 students
- in 13 European languages
- asking the question

svenska suomi Nederlands
ελληνικά français
Deutsch norsk islenska
dansk italiano
Português
English
español

"By the end of Grade 1, how many words can students read?"

Seymour, Aro, & Erskine, & the AB COSY Action Network (2003)

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[illegible]

Quick aside: Why is English a deep writing system?

- The inhabitants of Britain didn't do so well in international conflict...

English still does follow the **alphabetic principle**

- All English words have some letters that work...
- Even the worst ones...

What's a word with no reliable sound-spellings?

boatswain
victuals
suite

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The point is that...

"The complexity of English orthography cannot be an excuse for not teaching the principles and exemplary regularities in the system"

Perfetti (2003)

So English uses the alphabetic principle...
and it is valuable for teaching reading...
but we do have to lie to kids...

The Great Con

"treasure hunt"

Csays /k/ **CK**says /k/

Calso says /s/

CHsays /ch/

CHalso says /k/

There's also some stuff about **EA**...

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What kind of instruction will help?

Learning strategies for reading polysyllabic words

Syllables

robot

ro = /rou/
bot = /bat/

Units that contain one vowel sound.

Bhattacharya & Ehri (2007)
Shippens et al. (2005)
Wise (1992)
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Syllables

robot

ro = /roʊ/
bot = /bat/

Units that contain one vowel sound.

bat

onset peak coda

Bhattacharya & Ehri (2007)
Shippens et al. (2005)
Wise (1992)

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Definition of a *polysyllabic word*

It contains more than one syllable—usually marked by a vowel

po	ly	syl	lab	ic
/	pa	li	sɪ	læb
			ik	/

vowel letter

vowel sound

onset peak coda

A peak is usually a vowel sound.
A unit with a peak is a syllable.

Technically, syllables are sound units.

Clements & Keyser (1983)
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Wait ... *Polysyllabic*?

- Yes...
- *poly-* matches the Greek origin of *syllable*-
- We refer to polymorphemic words, so why multisyllabic?
- Some researchers have used this term (including me ☺)—it is particularly common in studies from France

Polysyllabic words become more common in texts in the upper grades

Grade	Number of words
1	~5,000
2	~15,000
3	~30,000
4	~45,000
5	~65,000
6	~85,000
7	~95,000
8	~100,000

Kearns et al., 2016; Renaissance Learning, 2012; Zeno, Ivens, Millard, & Duvvuri, 1995

Polysyllabic words occur in a lot of content area texts

aesthetic	photosynthesis
constitutional	polynomial

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Students can use syllable information to improve reading

but...

syllables are TRICKY

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Blame the single-letter vowels in polysyllabic words

Single-letter vowels:
One letter that makes one sound

razor
meter
viper
motor
fusion
bygone

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Why blame the single-letter vowels?

viper /aɪ/
linen /ɪ/
glorious /i/
flexible /ə/
rabbit /i/
raisin / /

i

How many pronunciations?
at least 4

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To dramatize the point...
This is true for every single-letter vowel

Letter	Long sound
A	razor
E	meter
I	vital
O	motor
U	music, tulip
Y	by, silly

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To dramatize the point...
This is true for every single-letter vowel

Letter	Long sound	Short sound
A	razor	wagon
E	meter	sedan
I	vital	vivid
O	motor	novel
U	music, tulip	buses, unusual
Y	by, silly	gym

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To dramatize the point...
This is true for every single-letter vowel

Letter	Long sound	Short sound	Well...
A	razor	wagon	water, Mary
E	meter	sedan	heron, hero
I	vital	vivid	spirit, virus
O	motor	novel	mother
U	music, tulip	buses, unusual	bury, busy
Y	by, silly	gym	yellow

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Syllable-based strategies

Syllable types

Syllable Types

Teach that printed syllables have predictable pronunciations

- open syllables
- closed syllables
- other types of syllables

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Teach about open and closed syllables

Open syllable

- The vowel comes at the end of the syllable.
- The vowel says its "long" sound.



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Teach about open and closed syllables

Open syllable

- The vowel comes at the end of the syllable.
- The vowel says its "long" sound.



Closed syllable

- The vowel comes at the beginning or in the middle of the syllable.
- The vowel says its "short" sound.



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Teach about open and closed syllables ... but limit metaknowledge

What is metaknowledge?

- Information related to the important knowledge
- In reading, this is information about words that teachers need but not students.

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Metaknowledge

Terminology

- Is it necessary for students to know these terms?
 - open syllable
 - closed syllable
- Is it adequate to rely on existing knowledge?
 - long-vowel syllable
 - short-vowel syllable

Strategies

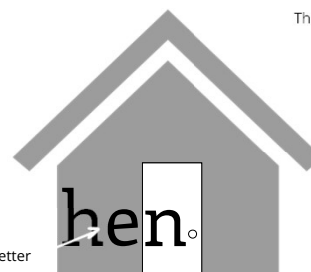


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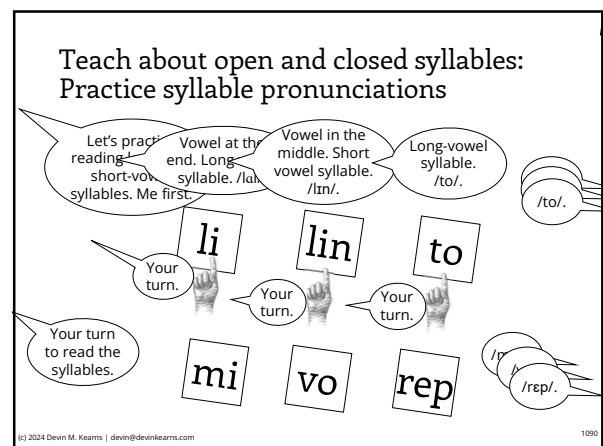
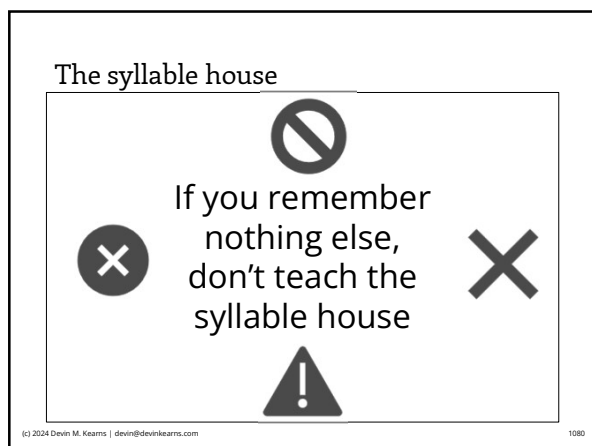
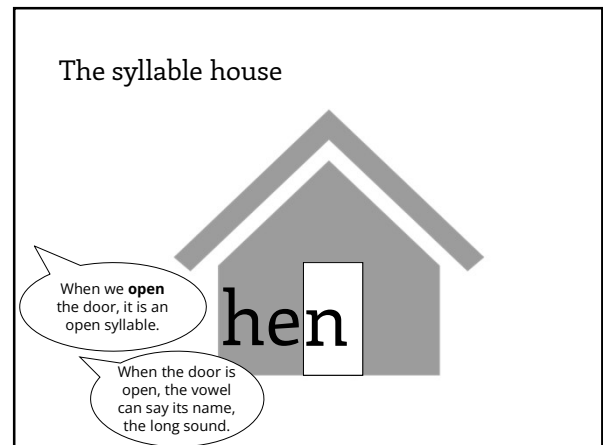
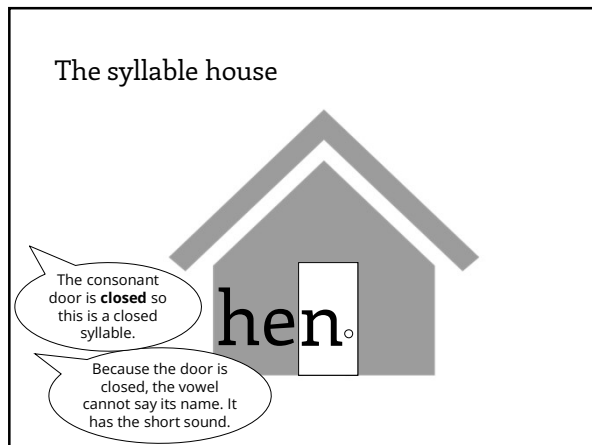
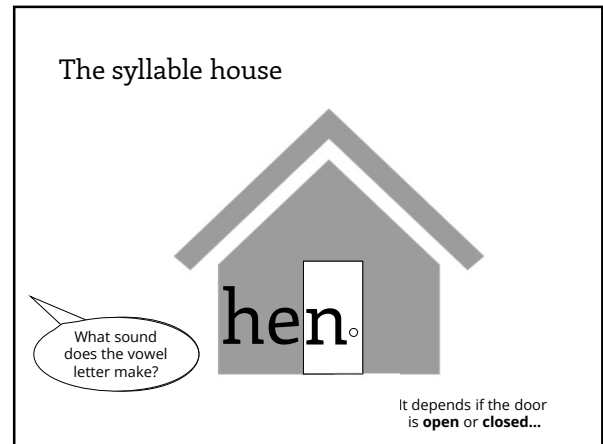
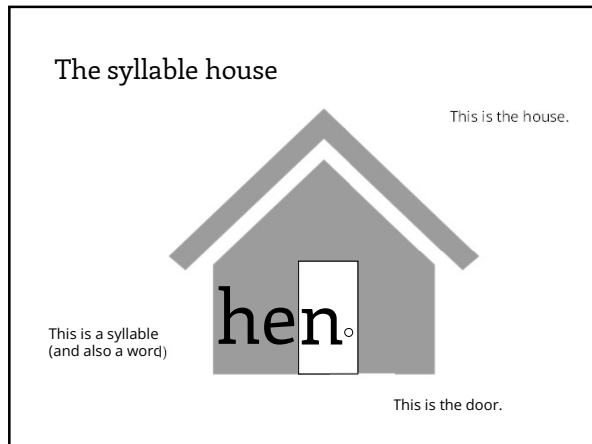
The syllable house

This is the house.



This is a vowel letter

This is the door.



Teach about open and closed syllables:
Practice vowel pronunciations

Let's practice reading pronunciations for these vowels. Let's say the short sounds first.

a e i
o u

Let's say the long sounds now.

a e i
o u

Let's practice the pronunciations of Y:

y

- Increase flexibility in encountering the single-letter vowels in polysyllabic words.

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Syllable-based strategies

Syllable division

Syllable division is a common approach in programs

Many based on the *Orton-Gillingham* approach

but the data about the value are not strong

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How does syllable division work?

vccv

v|cv

/ræb/

rabbit

vccv

/tai/

tiger

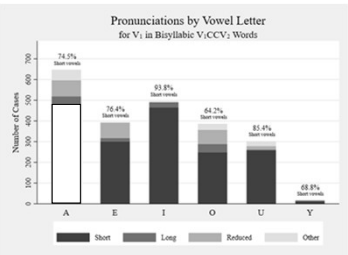
v|cv

Treiman, Bowey, & Bourassa, 2002; Treiman, Mullennix, Bijeljar-Babic, & Richmond-Welby, 1995; Treiman & Zukowski, 1990; Open Court Reading (McGraw-Hill, 2014); Wilson Reading System (Wilson, 2009)

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Data on VC|CV in bisyllabic words

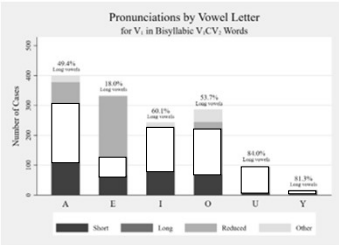
Black = short sound (follows the pattern)



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Data on V|CV in bisyllabic words

Dark gray = long sound (follows the pattern)



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What is the key message about syllable division?

- There are some cautions
- There is still a reason teachers like to teach it:

- "Knowing basic phonics is not enough! An efficient, structured, logical, scientific, reliably automatic system for dividing and pronouncing longer words was an essential prerequisite for my academic literacy"
- Quotation from an adult reader with dyslexia participating in Orton-Gillingham instruction (Cox & Hucheson, 1988, p. 227).

Teaching Syllable Division to Facilitate Polysyllabic Word Reading: Current Research and Possible Alternatives

by Devin Kearns, Cheryl Lyon, Elizabeth Zagata, Melissa Stalego, and Shannon Kelley

"I seldom benefit when teachers directly explain how the sounds in a word are represented by the letters... these sound identifications provide practice reading words that contain the corresponding students have learned. That is, they benefit from phonics instruction, especially to help them read words with complex sound spellings that have not yet been consistently represented in the text and the Kearns, 2020, however, the sound spellings are much less predictable in multisyllabic words with multiple vowels, less consistent, and sometimes phonics, 2020).

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Syllable division patterns commonly taught (not necessarily recommended)

VC|CV rab|bit

V|V li|on

V|CV til|ger

VC|CCV in|stant

VC|V drag|on

VCC|CCCV*

off|spring

*just kidding... there are almost no words like this!

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Practice reading by syllable with flexibility

ri

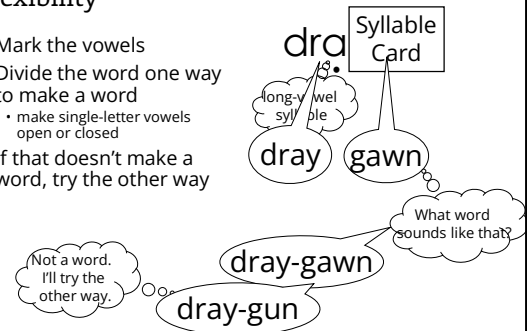
This assumes knowledge of the long-vowel and short-vowel patterns.

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Practice reading by syllable with flexibility

- Mark the vowels
- Divide the word one way to make a word
 - make single-letter vowels open or closed
- If that doesn't make a word, try the other way

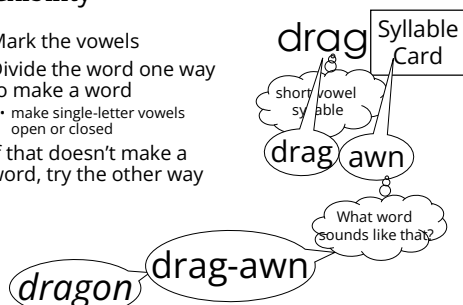


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Practice reading by syllable with flexibility

- Mark the vowels
- Divide the word one way to make a word
 - make single-letter vowels open or closed
- If that doesn't make a word, try the other way

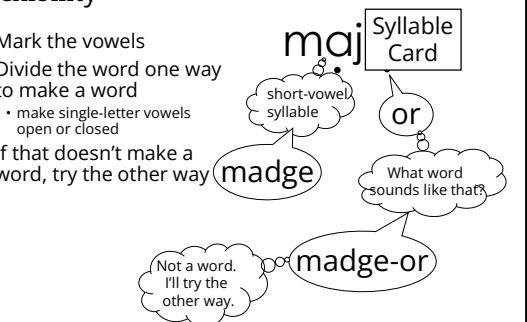


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1110

Practice reading by syllable with flexibility

- Mark the vowels
- Divide the word one way to make a word
 - make single-letter vowels open or closed
- If that doesn't make a word, try the other way



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1111

Practice reading by syllable with flexibility

- Mark the vowels
- Divide the word one way to make a word
 - make single-letter vowels open or closed
- If that doesn't make a word, try the other way

ma jor

long-vowel syllable

What word sounds like that?

may-jor

major

Syllable Card

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Practice spelling words by syllable

- Say the word.
- Say the syllables.
- Write the syllables one at a time.
- Check and correct.

The word is robot. What word?

Clap the syllables.

What's the first syllable?

Yes. Long-vowel syllable. Write it.

ro

Robot.

Row-bot

Row.

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Practice spelling words by syllable

- Say the word.
- Say the syllables.
- Write the syllables one at a time.
- Check and correct.

What's the second syllable?

Yes. short-vowel syllable. Write it.

ro bot

Bot.

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Practice spelling words by syllable

- Say the word.
- Say the syllables.
- Write the syllables one at a time.
- Check and correct.

Robot is spelled R-O-B-O-T. If you need to correct it, circle it and write the correct word under it. Mark a smiley face.

ro bot

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Syllable Writing Worksheet

- Teach students how to use it
- Teach students how to correct mistakes
- Teach students to use it for multiple word types

1 rain

2 re lay relay

3 Dis play (Display)

4 (unclear)

5 (unclear) and (unclear)

6 point ed

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Syllable Writing Worksheet

- Teach students how to use it
- Teach students how to correct mistakes
- Teach students to use it for multiple word types

2 re lay relay

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Teach the peeling-off strategy

- Teach students individual affix pronunciations.

pre

Pre.

P-R-E.

Let's add it to the peeling-off tree

tion

re

less

ment

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Teach the peeling-off strategy with common morphemes

Note: There are more common suffixes than prefixes.

Find a list of common affixes.
Create a peeling-off tree as an anchor chart.
Explain and review meanings (when they have them).
Practice reading with flash cards.

pre

re

tion

less

ment

Teach the peeling-off strategy

- Identify known affixes on the peeling-off tree
- Read the base word
- Chunk the word with the affixes attached

pseudo

ism

Syllable Card

pseudo

ism

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Teach the peeling-off strategy

- Identify known affixes on the peeling-off tree
- Read the base word
- Chunk the word with the affixes attached

statement

st

pre

re

tion

less

ment

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Teach the peeling-off strategy

- Identify known affixes on the peeling-off tree
- Read the base word
- Chunk the word with the affixes attached

motionless

m

pre

re

tion

less

ment

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Use the peeling-off strategy for spelling

- Say the word
- Say it by syllable
- Look for affixes on the peeling-off tree
- Spell it by syllable

pre

re

tion

less

ment

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Use the peeling-off strategy for spelling

The word is *prescription*. What word?

prescription.

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Create word chains for spelling polysyllabic words

- Give students affix tiles.
- Say a word.
- Have students say the word.
- Have students use the affixes plus tiles for the base word or root.
- Chain across words.

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The word is *descriptive*. What word?

If that's *descriptive*, show me *description*.

Say the parts and spell the word.

descriptive

de. scrip. tive.

de. scrip. tion.

s c r i p

con pre re de tive tion ture

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English spelling: Rule-driven

Spelling correctly depends on knowing many patterns	Spelling requires more patterns than reading
---	--

Good readers can be poor spellers.

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English orthography includes multiple pattern types

<p>sound-spellings</p> <ul style="list-style-type: none"> • one sound can have multiple spellings • One spelling can represent several sounds 	<p>position-based patterns</p> <ul style="list-style-type: none"> • surrounding phonemes control spelling 	<p>meaning</p> <ul style="list-style-type: none"> • morphological structure controls spelling • language of origin controls spelling
---	--	--

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Position-based patterns

Double letters

One consonant sound (phoneme) is represented by a double letter

Jeff will pass Buzz.

What is the position-based pattern?

What precedes each double letter?

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Position-based patterns Double letters

- buff
- bell
- hiss
- fuzz
- beef
- bail
- house
- freeze

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Position-based patterns Double letters

F, L, S, and Z double when
following a short vowel phoneme

FLoSS + ZZ rule

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Position-based patterns Other final phonemes

- batch
- back
- badge
- beach
- beak
- barge

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Position-based patterns Consonant-LE

- LE at the end of a word says /il/ or /əl/ or /I/ (reduced/no vowel)
- when preceded by b, ck, d, f, g, l, m, n, p, t, or z

Concept: One sound can have multiple spellings



S

sit
snap
pass
missing

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1257

Position-specific consistencies



S

SS


sometimes
taught
separately

sit
snap
pass
missing

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1258

Position-specific consistencies



space
spacing
spacy

c

ce


ci

cy

sometimes taught this way

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Position-specific consistencies



spacing
spacy
space

c


ce

ci

cy

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Position-specific consistencies



spacy
space
spacing

c


ce

ci

cy

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Concept: One sound can have multiple spellings



space
spacing
spacy

c


ce

ci

cy

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Position-specific consistencies



s

ss

sometimes taught

c

ce

ci

cy

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