# Enhancing and Refining the Use of a Sound Wall

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Attend to articulation - articulatory gestures help make the phonemes concrete

Attend to the various graphemes and patterns representing phonemes

Understanding the sound/spelling system will build decode and encode skills

Mastery of sound/spelling system will lead to fluency



### **Focus on Phonemes and Articulation**

- Hearing sounds in words "ear"
- Articulatory gestures "mouth movements"
  - Ease of processing favors gestures
- Sounds are ephemeral and disappear as soon as they are heard
  - Liberman (1999) suggests articulatory gestures rather than acoustic features represent phonemes in the brain.
- Mouth positions are tangible and can be felt, viewed in a mirror, and analyzed by learners
  - (Ehri, 2014)





Why is this conversation needed?

 Using data to consider phases of reading development according to Ehri's Phases of Reading Development.

Sound walls are a tool for moving students from early to later alphabetic phase.



**Reading Acquisition and the Role of Articulation** 

# We cannot forget...





### Who Benefits from Sound Wall Instruction?

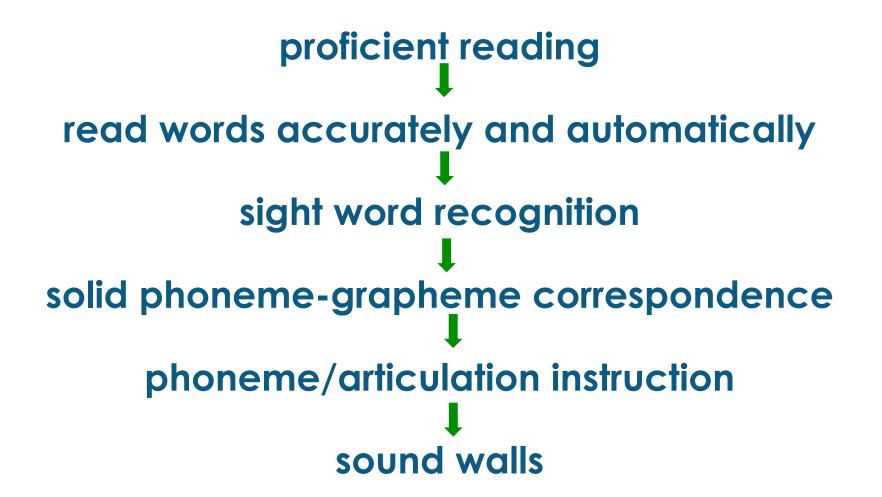
 Students in the pre-alphabetic and early alphabetic phases of reading will benefit from these types of tasks.

✓ Build associations linking gestures, keywords, and speech sounds. Emphasize articulation.



Ehri's Phases of Word Reading Development (Ehri, 2014)	Kilpatrick's Levels of Reading (Kilpatrick, 2015)	
<ol> <li>Pre-Alphabetic</li> <li>Before letter knowledge has developed</li> <li>General knowledge of print is developing</li> </ol>		
<ul> <li>Letter names and some letter</li> </ul>	<b>Early Phonological</b> Rhyming, alliteration, syllable segmentation, first-sound awareness	Sound walls are key at this point!
<ul> <li>3. Later Alphabetic</li> <li>Phoneme grapheme mapping / phonic decoding</li> <li>Start of automatic sight word recognition (for regular and a few irregular)</li> </ul>	<b>Basic Phonemic Awareness</b> Segmenting of 3-4 phoneme words Blending of 3-4 phoneme words	
<ul> <li>4. Consolidated Alphabetic <ul> <li>Uses larger units to read sight words</li> <li>Orthographic mapping - Requires letter-sound skills and advanced phonological skills</li> </ul> </li> </ul>	Advanced Phonemic Awareness Phoneme deletion, substitution, and reversal of phonemes	<b>1</b> reading

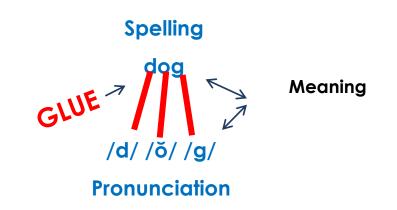






Reading Words from Memory; Orthographic Mapping

Process of forming connections





Knowledge of the grapheme-phoneme system provides the <u>glue</u> bonding spelling-sound connections to meaning in memory



### Why Is This Important?

Decoding print is possible only if the reader can map print to speech efficiently; therefore, the elements of speech must be clearly and consciously identified in the reader's mind."

-Louisa Moats

Partner Turn and Talk

- 1. This is important because we match sounds to letters when we decode.
- 2. A student who doesn't understand that a word can be broken into phonemes cannot understand which letters match a sound, because they don't understand the sounds!



### What Is a Sound Wall?

- A sound wall is set up according to the articulation of speech sounds.
- Producing sounds moving from the front of your mouth to the back of the throat
- Approaching things from a learner viewpoint rather than a teacher viewpoint
- An anchor to teach letter sound knowledge using articulatory gestures
- Attaching phonemes to orthographic patterns
  - This has everything to do with print



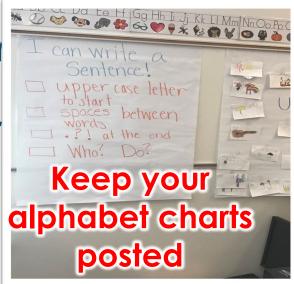
### Sound Walls: How To Begin

- **1.** Begin with sounds by teaching the articulation of phonemes.
  - If you currently use a word wall, you are going to have to add more graphemes to match phonemes (44 phonemes)
- 2. Build a sound wall as you teach the phonemes and add the graphemes as they are introduced.
  - If you teach kindergarten, start with common consonants and short vowels.
- 3. If you have already introduced graphemes, add the mouth pictures, and review the articulation of each phoneme daily. The key is repetition!
  - Discuss the sound each grapheme represents. Use mirrors and pictures to help make connections and build memory traces.



### Sound Walls: How to Begin, Cont.

- 4. Revisit words already posted on a word wall and analyze them by initial sound.
  - Consider moving words if the phoneme match is inaccurate. For example, move "the" to the voiced /th/
  - Discuss specific patterns (graphemes) that are used to represent our phonemes and focus on the spellings (orthography) along with sounds (phonemes).
- 5. Keep your alphabet strips in place above your board or other area in your room. Do not be confused by thinking only alphabetical order here.



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### Tear Down Current Word Walls

- The organization is A-Z ...most of the time
- Words are listed by the first letter
- Focus tends to be different in every classroom
- Functions as wall paper
- Where do you tell students to find the word....
- know the
- write she
- of are
- one



### Implications for weak readers

Phonological skills are essential for all levels of word reading development

- Assuming adequate effort and opportunity, the phonological core deficit is the primary cause of word reading difficulties. <u>This is what differentiates a dyslexic</u> reader from a good reading.
- Phonemic awareness skills are underrated (Kilpatrick, 2016)
- Students are inadequately assessed beyond 1st grade



### **Sound Walls**







## Why a Sound Wall? (fill in the blanks)

- Two purposes with a broader application:
  - **1.** Attending to articulation

Articulatory gestures help to <u>concretize</u> phonemes

2. Attention is focused on the various <u>graphemes</u> and <u>patterns</u> representing phonemes.

 Providing access to and discussion around the various ways we spell words (orthography)

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### **Thinking About How Sounds are Produced**

### CONSONANTS

Labels for the airflow and voicing

- Stop Unvoiced or Voiced
- Nasal Voiced
- Fricative Unvoiced or Voiced
- Affricate Unvoiced or Voiced
- Glides Unvoiced or Voiced
- Liquids Voiced

Handouts

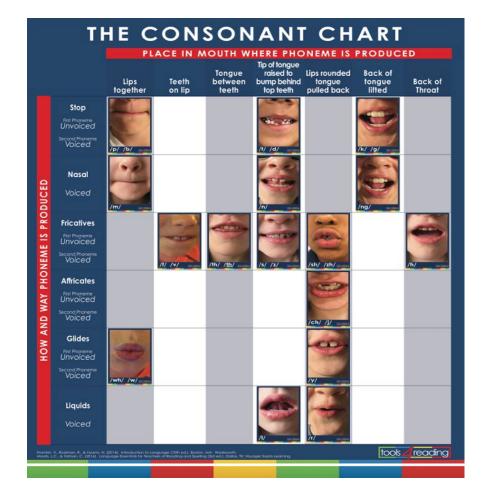


### Language System Organized Around Our Speech Sounds - Consonant Phonemes

Place of Articulation - Where in the mouth the sound originates

Manner of Articulation

What we do with our breath and our vocal cords





## Pop Quiz: Language System

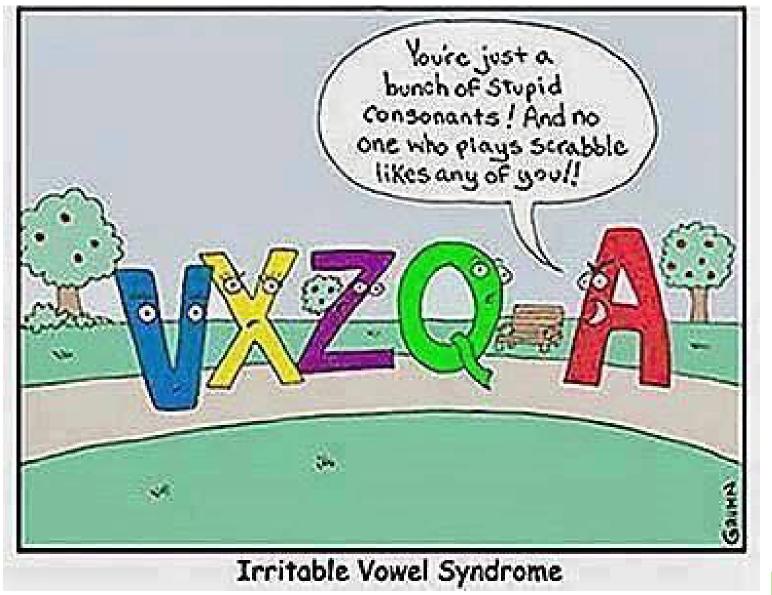
What is the Manner of Articulation? 1 – stop

- 2 nasal
- 3 fricative
- 4 affricate
- 5 glide
- 6 liquid





### Irritable Vowel Syndrome!





### **How We Produce Vowel Phonemes**

### VOWELS

Labels for place and what we do with our tongue as we open or round our lips



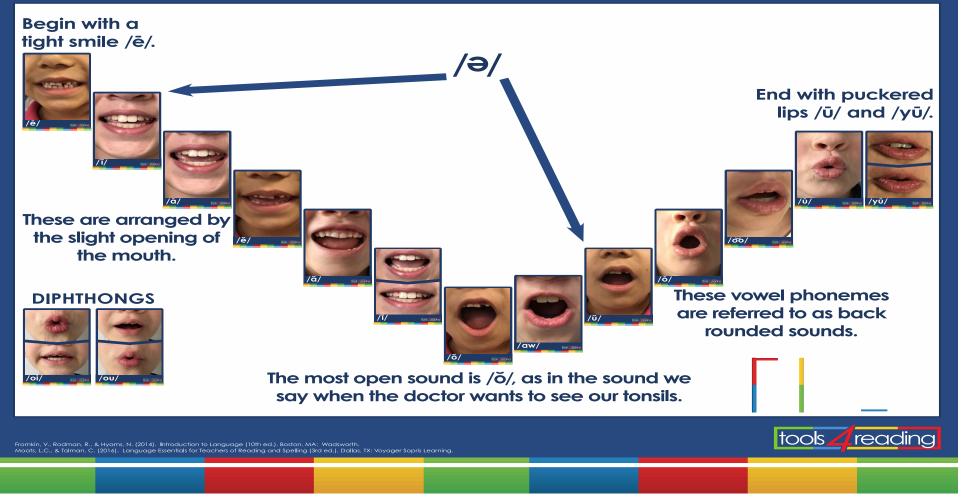
- Where in the mouth is the sound being produced?
- Is the tongue high, low, pulled back?

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## **Vowel Phonemes Chart**

### THE VOWEL VALLEY





### **Implementing a Sound Wall**

### **Sound Wall Implementation Guide**



### IMPLEMENTING A SOUND WALL

A sound wall is a tool to help students connect phonemes to graphemes.

### DETERMINE WHERE YOU WILL PUT YOUR SOUND WALL

- □ Is the location easily accessible for both me and my students?
- □ Is the location readily available to me when teaching?
- Do I have a large enough space on a wall to place both a consonant and vowel sound wall?
- $\hfill\square$  What materials may I have to use to incorporate a smaller sound wall in my room?
- Will I have to rearrange materials in my classroom that have already been established?

### **IDENTIFY MATERIALS NEEDED FOR THE SOUND WALL**

- Do I have sound cards? Consonants? Vowels?
- □ How will I lay out my consonant sound wall? Clusters? Horizontal line?
- Do I have labels for the articulation categories?
- Can I form the V for my vowel wall? How might I rearrange materials to create this for scaffolding?
- □ How am I going to build in articulation supports? Kid Lips?

### PLAN FOR TEACHING OF NEW SOUNDS

- □ Will I place all sound cards on the sound walls prior to teaching the sounds?
- Will I turn over the sound cards until I am ready to teach that phoneme-grapheme connection?
- $\hfill\square$  Do I want to place all sound cards on the wall and cover untaught sounds?

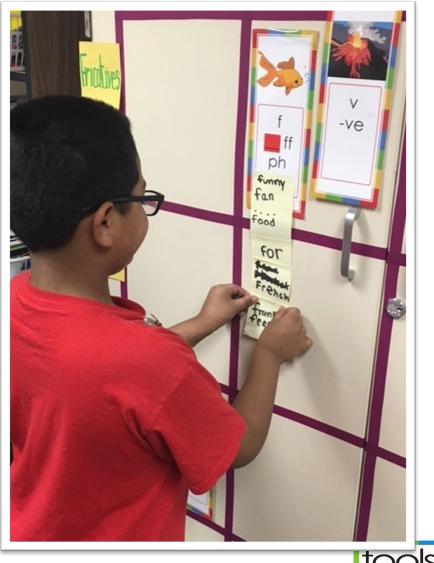
### ESTABLISH INSTRUCTIONAL TIME FOR SOUND WALL INSTRUCTION

- □ Can I build in a time during my daily routine for sound wall instruction/review/use?
- □ How do I intend to introduce new sounds?
- $\hfill\square$  Will the students place the sound cards on the wall or will I?
- Have I established a plan for reviewing sounds on the sound wall? Sporadically throughout the day? A set time during my ELA block? Part of morning routine?



## Explicit Instruction Connecting Phonemes to Graphemes







## Adding Graphemes to your Sound Wall

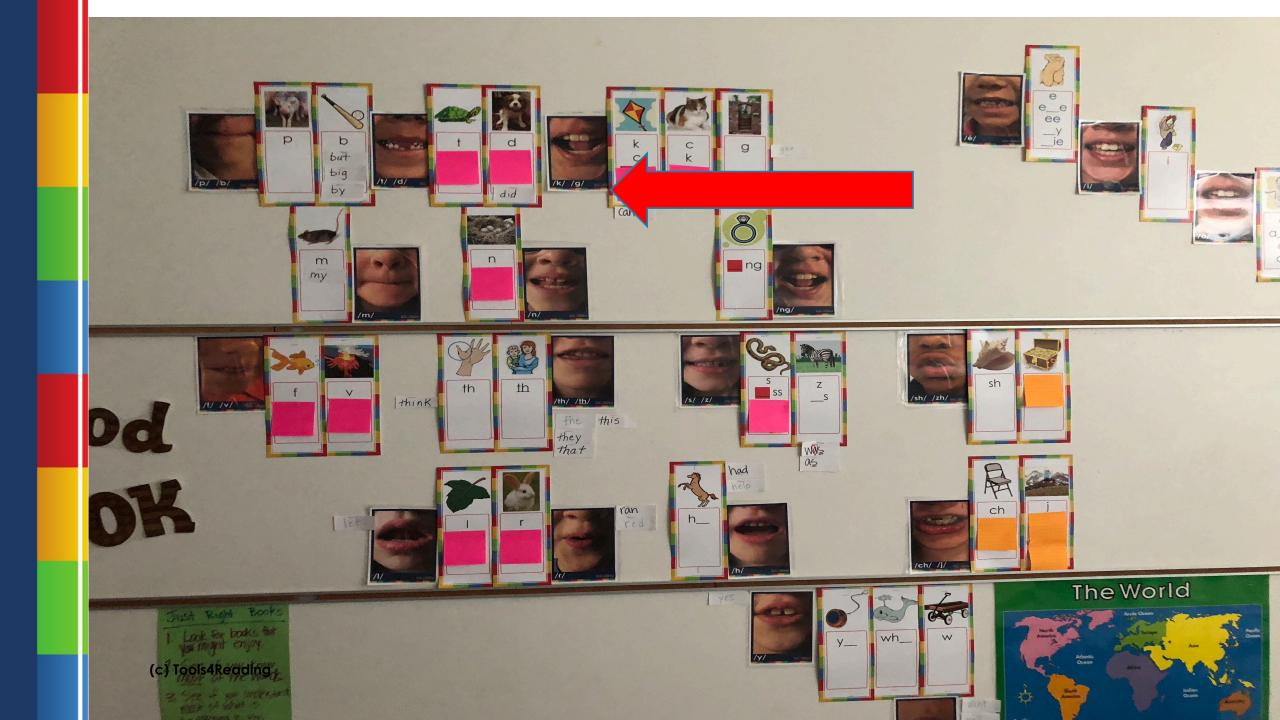
- Explicitly teach one concept at a time (this may be through your spelling list)
- When adding a new spelling to go with the sound, you do not have to teach all of the spellings. (Use a sticky note to cover up graphemes that have not been taught.)
- Use mouth pictures to support an existing program
- Practice through application of a specific grapheme linking to a phoneme every time you work with it
  - Phoneme Grapheme Mapping
  - Sorting Words
  - Building Words
  - Word Chaining



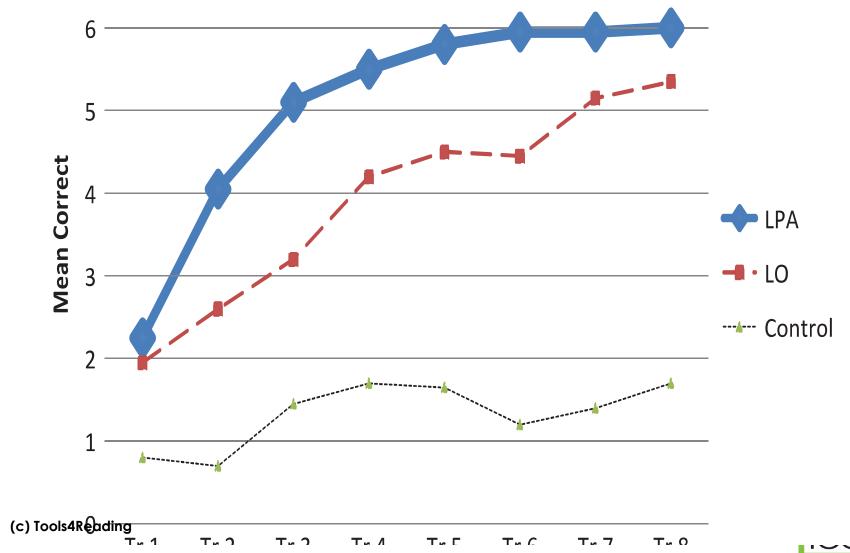
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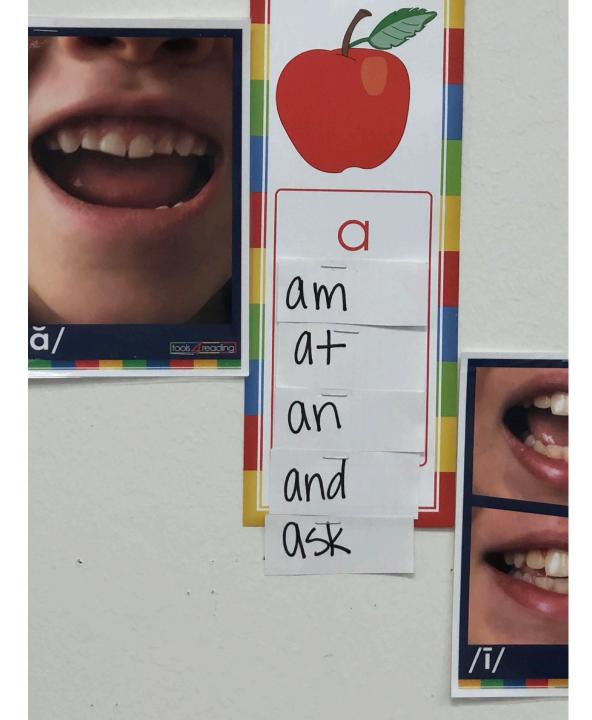




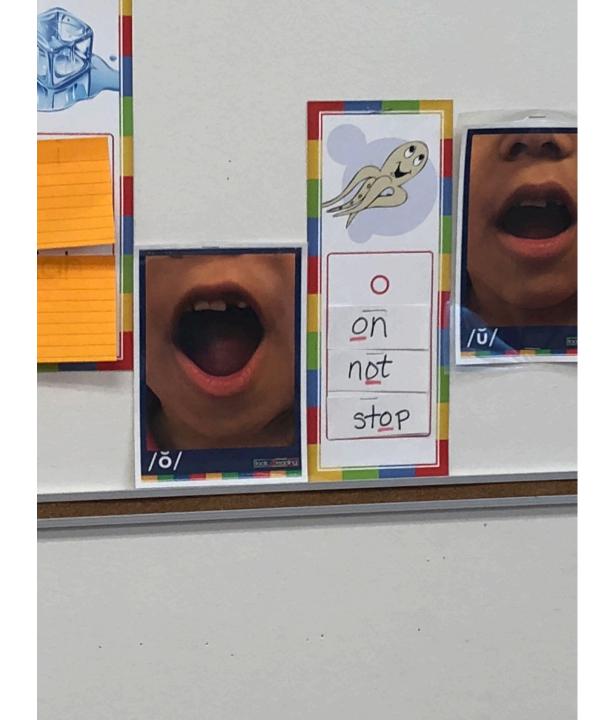
# Value of Orthography













### Introduction of words for the Sound Wall

- 1. Introduce words and add them to the wall
- 2. Focus on phonemes and mapping them to graphemes
- **3.** Practice blending phonemes together to read words, not flashing words on cards.
- 4. Review all sounds daily (develop a chant or a routine)
- 5. Review the words on the wall

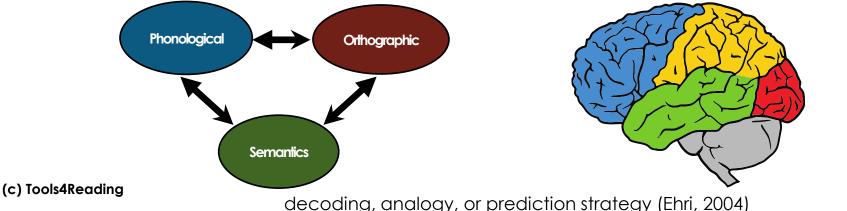
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# What Does It Take to Retain Sight Words?

(fill in the blanks)

- 1. Need <u>phonemic analysis</u> segmenting and blending along with <u>manipulation</u>
- 2. Need to know major <u>grapheme-phoneme</u> correspondences
- **3.** Need to know <u>syllabic</u> sound-spelling patterns
- 4. Need to be able to read <u>unfamiliar</u> words <u>on your</u> <u>own</u>
  - Self-teaching hypothesis (Share, 1995)





### Conclusion

- Skills become integrated as acquisition proceeds.
- Phonemic awareness and orthography are used to build vocabulary and lexical quality
- The orthographic mapping processes underlie the emergence of students' skill in reading words accurately and automatically from memory.





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