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- Certified Dyslexia Therapist, CERI
- Director/Founder Educational Therapy Center
- Member, International Dyslexia Association
- Parent of Dyslexic

The
International
DYSLEXIA
Association

Promoting literacy through research, education, and advocacy.



IGAPS 2019

- What is Dyslexia
- What it is Not
- What is Structured Literacy





Educational Therapy Center

International Dyslexia Association



The Yale Center for Dyslexia and Creativity



Decoding Dyslexia



Reading Rockets WETA

Teachers Need Specialized Training

...Even the most competent teacher cannot be successful in teaching reading, especially to children who are at-risk or struggling with literacy, if provided with inadequate instructional contexts or inappropriate instructional materials and **approaches...**

2017 National Assessment of Educational Progress

4th grade students

63% of students score below proficiency in reading.

72% of students score below proficiency in writing.

Structured Literacy programs are effective
not just because of

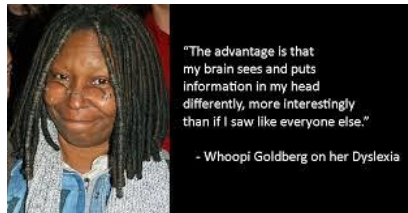
WHAT is taught,

but because of

the WAY it is taught.

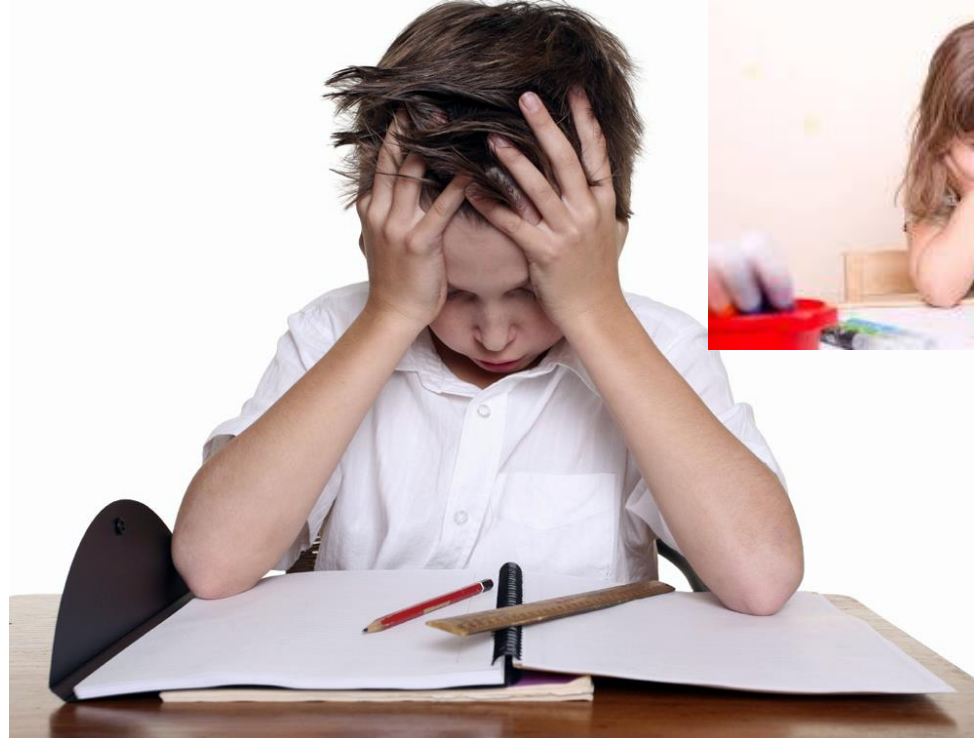


Famous dyslexics @Eudyslexia





Any of these
people
look more
familiar??



Dyslexia is not a disease

A medical diagnosis is often required by schools.

Other disabilities may co-occur, but are not the cause.
30% of our students also have ADHD diagnosis.

An educational “treatment plan” is what the child needs.

International Dyslexia Association definition:

Dyslexia is a specific learning disability that is neurobiological in origin. It is characterized by difficulties with accurate and/or fluent word recognition and by poor spelling and decoding abilities. These difficulties typically result from a deficit in the phonological component of language that is often unexpected in relation to other cognitive abilities and the provision of effective classroom instruction. Secondary consequences may include problems in reading comprehension and reduced reading experience that can impede growth of vocabulary and background knowledge.

Developed in 2002 by the IDA under the leadership of G. Reid Lyon of the National Institute of Child Health Development.

The "difference" goes undetected until learning to read and write.



- Often undetected until 3rd grade.
- Self-image hard to change after age 10.
- Research suggests that the feelings of inferiority develop by age 10.
- Powerful argument for early intervention.

Dyslexia

Difficulties with

Reading

Auditory
Processing

Written Language

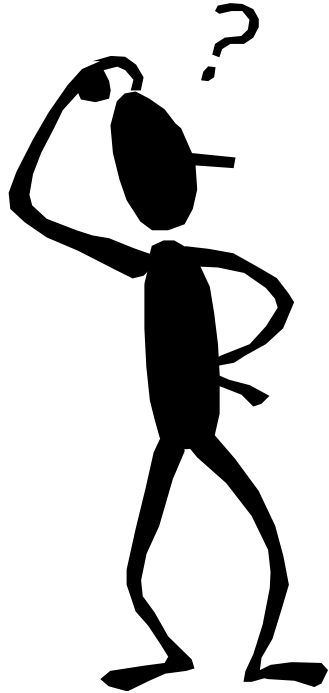
Spelling

Non-verbal
Learning

Reading Comprehension



Difficulties can occur in:



- Reading
- Writing
- Spelling
- Speaking
- Processing oral and written language
- Word retrieval
- Mathematics

Difficulties vary in each individual.

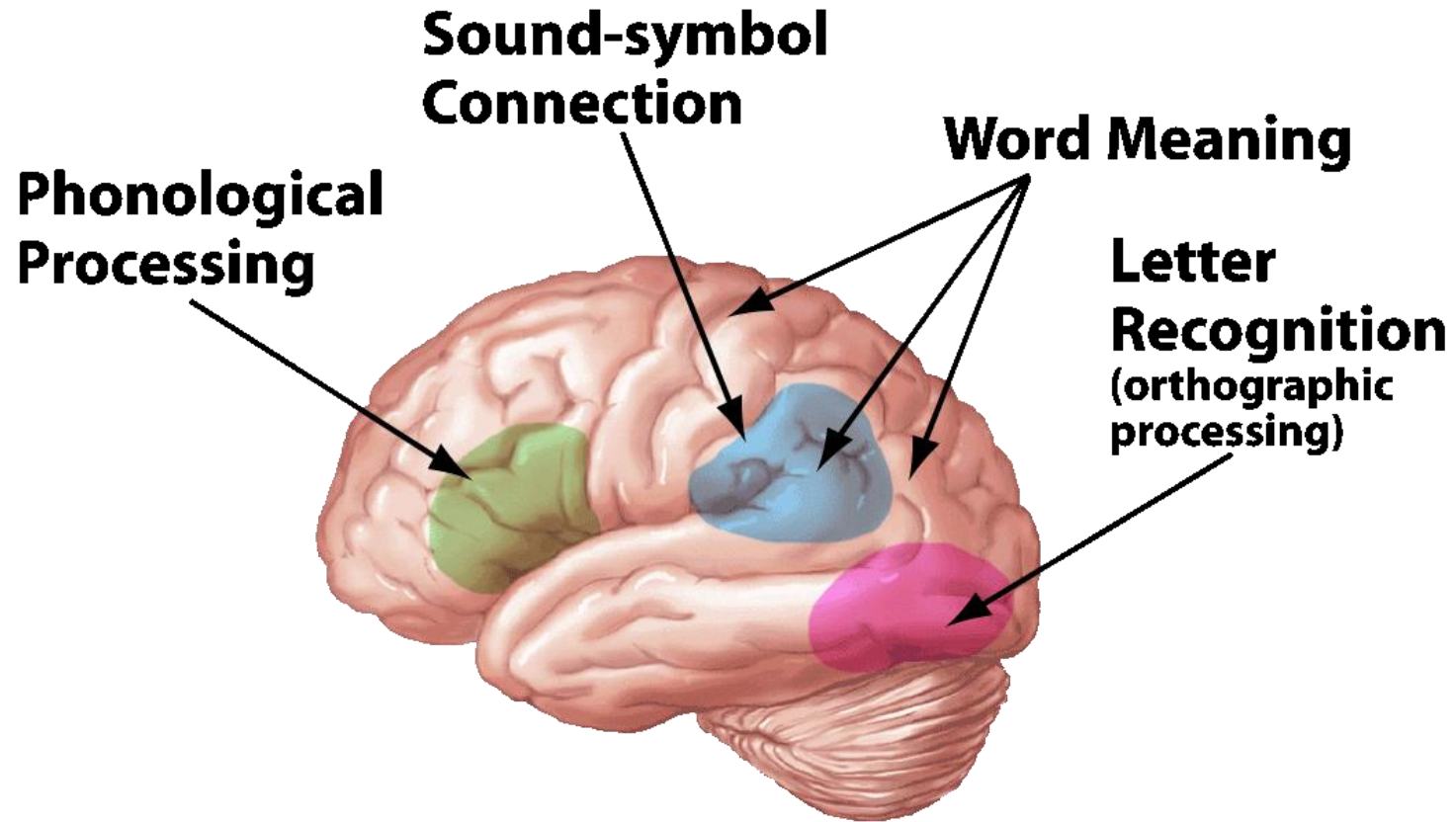
Reading is complex

orthography (the written form)

phonology (the sound structure)

These allow us to pronounce words and gain access to meaning.

No "reading center" of the brain



Brain: Functional Neuroanatomy

- Each processing system operates in a distinct region of the left brain.
- Rapid communication among regions is essential.
- Reading problems can originate in one or several systems.
- All systems must be educated.

Typical Brain / Dyslexic Brain comparison

Typical



- Broca's area, Inferior frontal gyrus (articulation/word analysis)
- Parieto-temporal (word analysis)
- Occipito-temporal (word form)

Dyslexic



- Broca's area, Inferior frontal gyrus (articulation/word analysis)

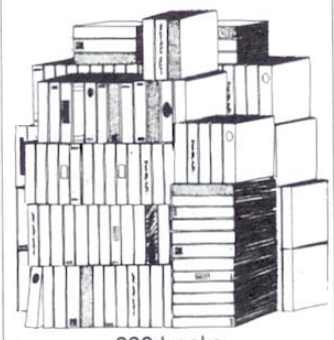
	Slow Reader (150 words per minute)	Fair Reader (250 words per minute)	Good Reader (350 words per minute)
1 WEEK	 3/4 book	 1 1/4 books	 1 3/4 books
1 MONTH	 3 books	 5 books	 7 books
1 YEAR	 36 books	 60 books	 84 books
10 YEARS	 360 books	 600 books	 840 books

Illustration from Timed Readings by Jamestown Publishers

Vocabulary Issues

As Isabel Beck writes in [Bringing Words to Life](#): "Struggling readers do not read well enough to make wide reading an option. To acquire word knowledge from reading requires adequate decoding skills, the ability to recognize that a word is unknown, and the competency of being able to extract meaningful information about the word from the context. Readers cannot be engaging with the latter two if they are struggling with decoding."

Are there early clues to dyslexia?

Since reading is based on spoken language, clues can appear before a child starts school.

Children with dyslexia often have **slightly delayed speech** and don't recognize rhyming words.

A **family history** of dyslexia may also be present.



Kindergarten & First Grade

Difficulties

- Reading errors that show no connection to the sounds of the letters on the page—will say “puppy” instead of the written word “dog” on an illustrated page with a picture of a dog
- Does not understand that words come apart
- Complains about how hard reading is; “disappears” when it is time to read
- A history of reading problems in parents or siblings
- Cannot sound out even simple words like *cat*, *map*, *nap*
- Does not associate letters with sounds, such as the letter b with the “b” sound



Second Grade through High School

Reading

- Very slow in acquiring reading skills. Reading is slow and awkward
- Trouble reading unfamiliar words, often making wild guesses because he cannot sound out the word
- Doesn't seem to have a strategy for reading new words
- Avoids reading out loud





Speaking

- Searches for a specific word and ends up using vague language, such as “stuff” or “thing,” without naming the object
- Pauses, hesitates, and/or uses lots of “um’s” when speaking
- Confuses words that sound alike, such as saying “tornado” for “volcano,” substituting “lotion” for “ocean”
- Mispronunciation of long, unfamiliar or complicated words
- Seems to need extra time to respond to questions



School and Life

- Trouble remembering dates, names, telephone numbers, random lists
- Struggles to finish tests on time
- Extreme difficulty learning a foreign language
- Poor spelling
- Messy handwriting
- Low self-esteem that may not be immediately visible





Young Adults & Adults

Passed on from parents to children (30-60% chance if a parent struggled)

"I had trouble learning to read, so....."

Several Screening Tools on the IDA website

School Age Dyslexia Screener – CLDQ-R

Please read each statement and decide how well it describes the child. Mark your answer by circling the appropriate number. Please do not leave any statement unmarked.

	Never/ not at all	Rarely/ a little	Sometimes	Frequently/ quite a bit	Always/ a great deal
1. Has difficulty with spelling	1	2	3	4	5
2. Has/had difficulty learning letter names	1	2	3	4	5
3. Has/had difficulty learning phonics (sounding out words)	1	2	3	4	5
4. Reads slowly	1	2	3	4	5
5. Reads below grade level	1	2	3	4	5
6. Requires extra help in school because of problems in reading and spelling	1	2	3	4	5

Scoring Instructions:

Add up the circled numbers and record that as the Total Score _____

The following cutoffs apply:

- Total Score <16 = Minimal Risk
- Total Score 16-21 = Moderate Risk
- Total Score >21 = Significant Risk

2019 publication by the International Dyslexia Association



EDUCATOR TRAINING INITIATIVES BRIEF

Structured Literacy™

An Introductory Guide

The
International
DYSLEXIA
Association

Promoting literacy through research, education, and advocacy.

What does not work?

- Teaching guessing based on pictures
- Spelling based on rote memorization of unpatterned words
- Meaning focused writing without teaching the writing process

Without research-based instructional approaches and curricula, it appears that many teachers tend to overlook important components of reading and writing in instruction...

Including (the things that work)

phonemic awareness,

phonics,

vocabulary,

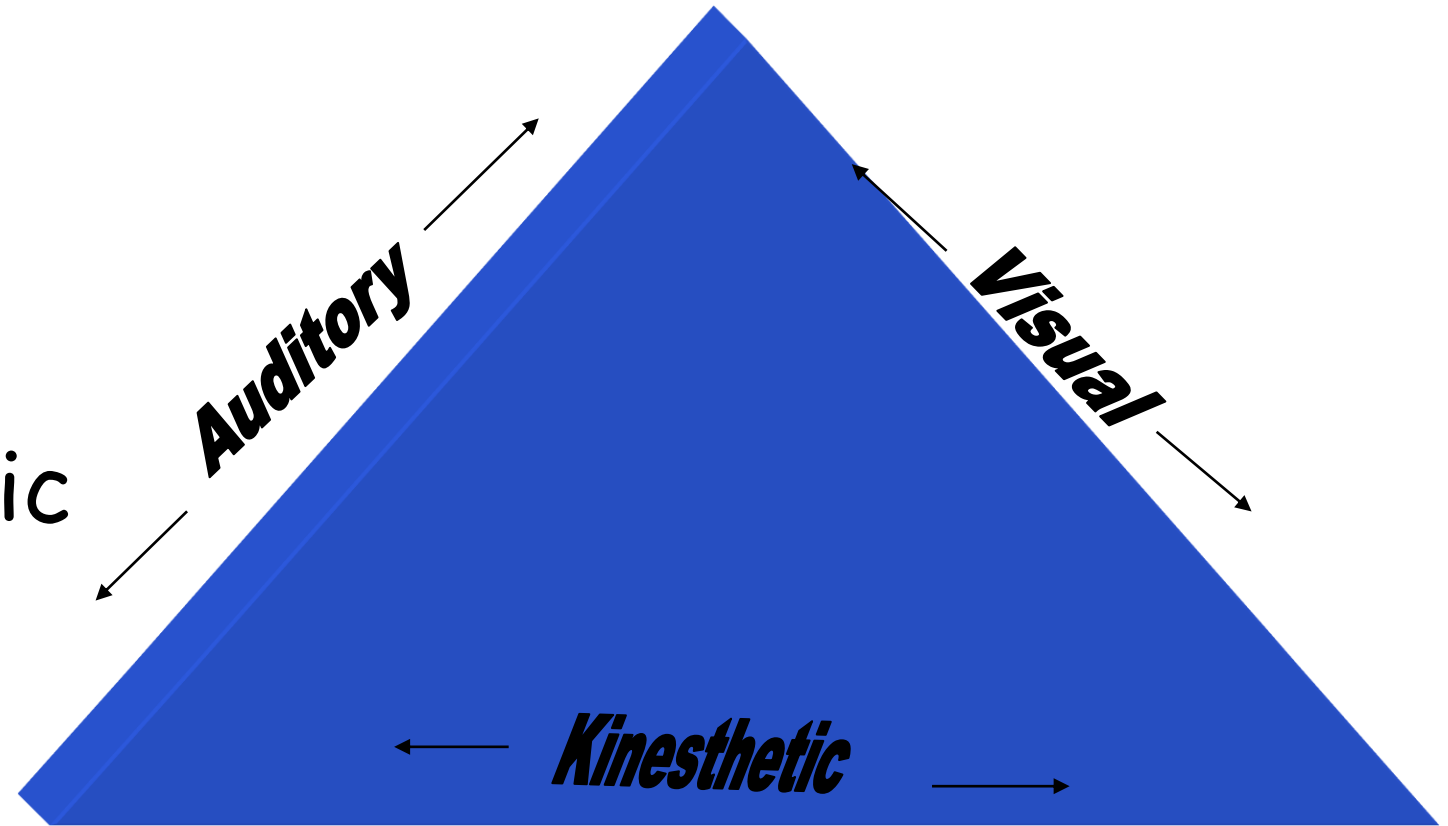
spelling,

and writing processes

such as planning and revision

Orton-Gillingham is based on the Three Pathways for Learning

- Auditory
- Visual
- Tactile-Kinesthetic



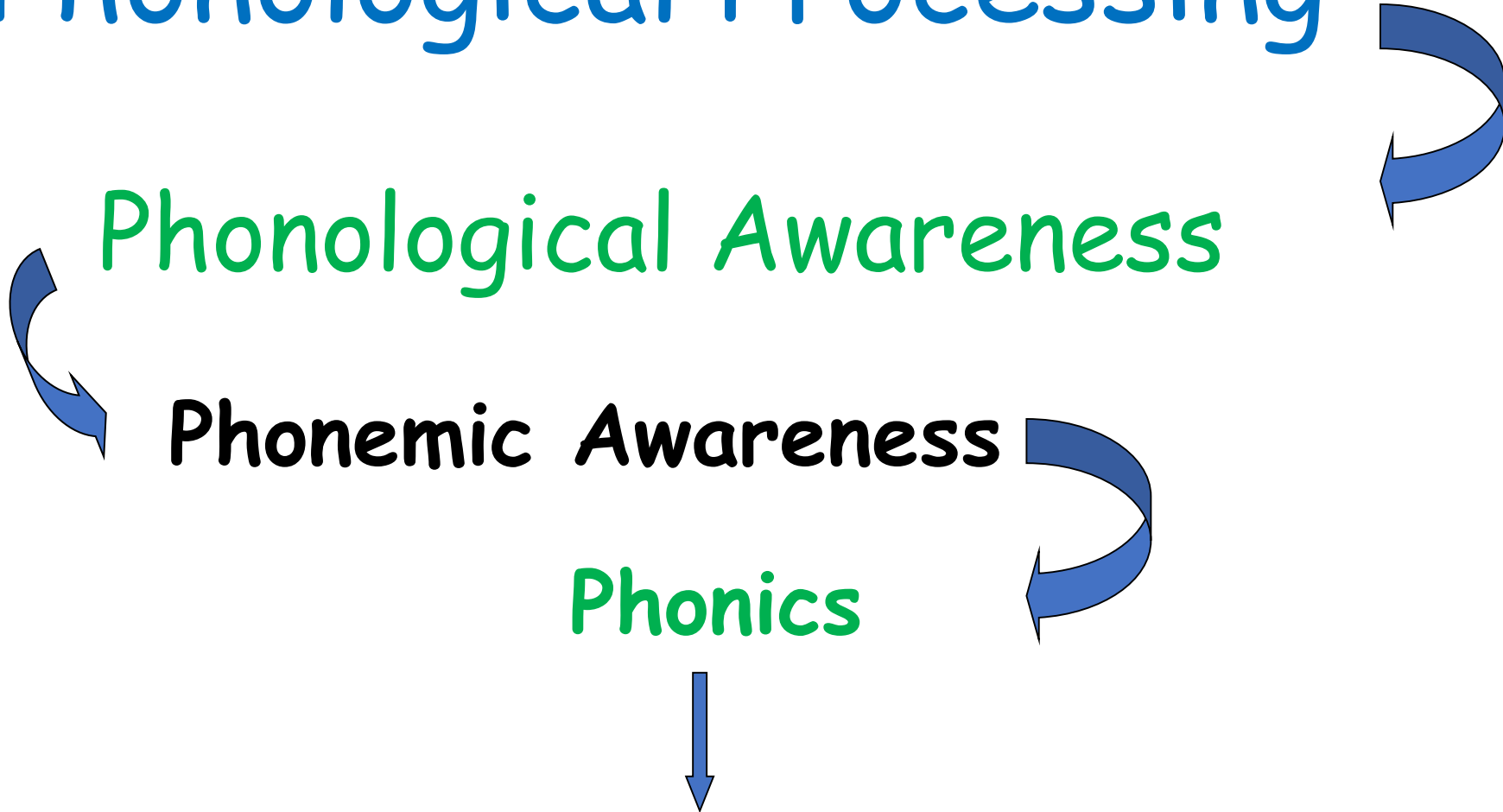
Phonological Processing

Phonological Awareness

Phonemic Awareness

Phonics

Language and Reading Skills



Phonological Processing

Understands Spoken Language

- Processes Information
- Expresses Information



Different Emphasis Needed

1. Language Deficits

Poor vocabulary

Poor oral comprehension

2. Dyslexic

Struggling to decode

Leads to poor fluency

3. Reciprocal affects



Phonological Processing

Phonological Awareness

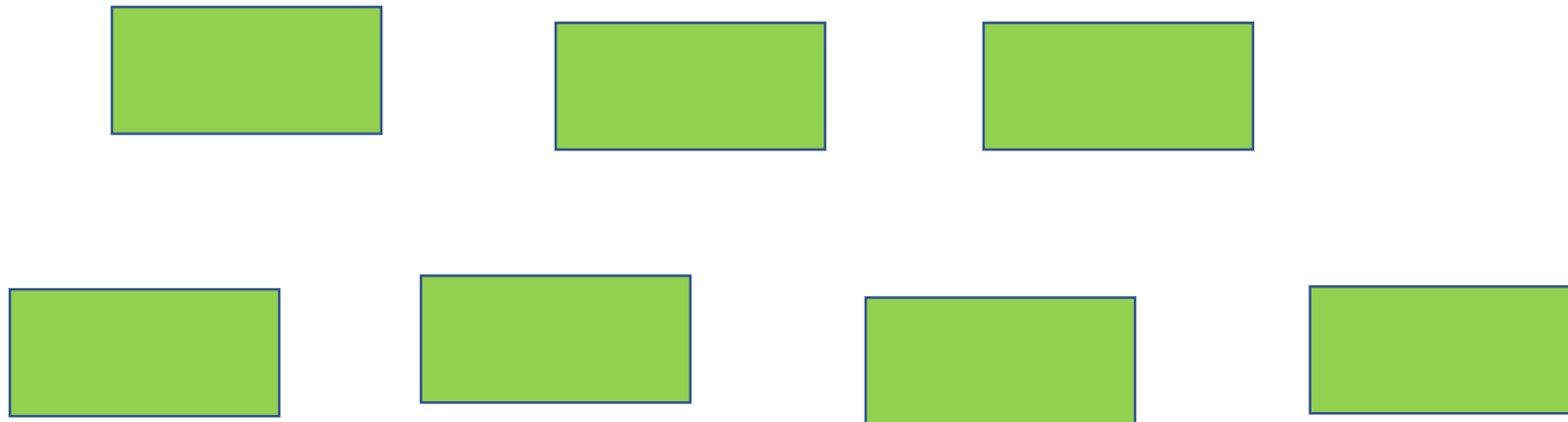
Counting Words
Syllable Awareness and Manipulation
Rhyming





Word Awareness

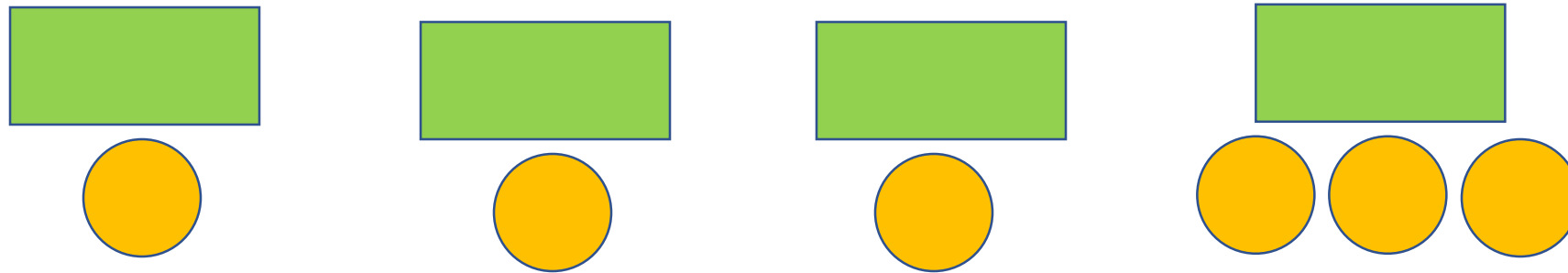
Can they show the number of words in a sentence?





Syllable Skill #1

Does she know the differences between a word and a syllable?



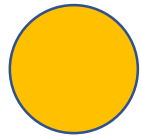
Can she show the correct
number of syllables in a word?





Syllable Skill(s) #2

Can he blend syllables separated by varying time intervals?
Can he "hear" the word?



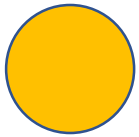
cow



boy



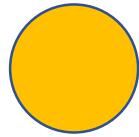
"cowboy"



de



liv



er



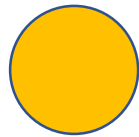
"deliver"



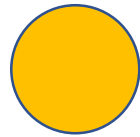
frus



tra



tion



al



"frustrational"



Syllable Skill(s) #3

Can the student delete a specified syllable off a word?

Cowboy without boy?

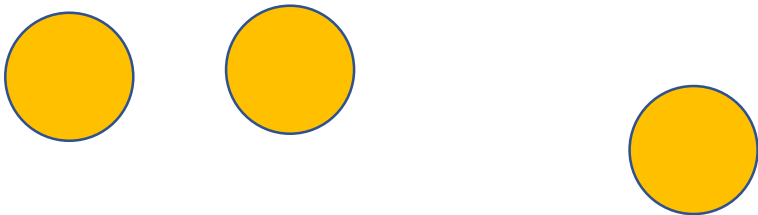
Compound words are easiest.

Reptile without rep?

Still a two-syllable word, but not compounded.

Yesterday without day?

Expected by end of third grade.





Rhyming Skill(s) #1

Discrimination of rhyming words

Auditory Memory is a factor for these tasks.

Do these words rhyme? Y or N? cat/hat big/bad

Which word rhymes with cat? hat kid

Which word doesn't rhyme in a set of three words? cat kid hat





Rhyming Skill(s) #2

Production of rhyming words

Tell me a word that rhymes with **cat**, but starts with **/b/**.

Finish this sentence with a rhyming word.

“I certainly **knew**,..... there were monkeys at the _____”.

Tell me three words that rhymes with **top** (real or nonsense).



Resource for screening and remediation



Phonological Processing

Phonological Awareness

Phonemic Awareness



Phonemic Awareness Skills

Being able to isolate the sounds within a word
with and without printed text

Hearing, counting, repeating all the phonemes

Blending, segmenting, and substituting specific sounds in words

Recognizing letters are different from sounds

Sensing a pattern of how sounds can be represented by letters



Phonemic Awareness

Knowing the difference between a **word**

intruder

the syllables



and identifying the sounds



Numerous Phonemic Awareness Skills

- Identification of Phonemes
- Blending Phonemes
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



- Identification of Phonemes
- Blending Phonemes
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



Phonemic Awareness

Identification of Phonemes

Isolating the individual sounds



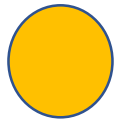
m a n



Phonemic Awareness

Identification of Phonemes

Isolating the first sound



m a n



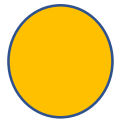
/m/ (not the letter name)



Phonemic Awareness

Identification of Phonemes

Isolating the middle sounds



m a n



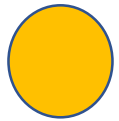
/ă/ (not the letter name)



Phonemic Awareness

Identification of Phonemes

Isolating the end sound



m a n



/n/ (not the letter name)



This skill affects spelling

- Eventually a student will need to hear each individual sound in a syllable.
- This is true of a one syllable word or a three-syllable word.



Reading is affected by the blending of individual sounds in a syllable.

Eventually a student will need to hear each individual sound in a syllable and "blend" them into a word.

Speed is a factor.



Numerous Phonemic Awareness Skills

- Identification of Phonemes
- **Blending Phonemes**
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



Phonemic Awareness

Blending Phonemes



The word is easier to "hear"
with less time between sounds.



Phonemic Awareness

Blending Phonemes



m a n



Practice with $\frac{1}{2}$ second to 2 second pause.



Phonemic Awareness

Blending Phonemes

Move on to longer words



j e s t e r



Practice with $\frac{1}{2}$ second to 2 second pause.



Numerous Phonemic Awareness Skills

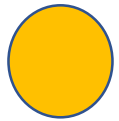
- Identification of Phonemes
- Blending Phonemes
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



Phonemic Awareness

Segmentation of Phonemes

Related to spelling



b i g



Isolating each individual sound is vital.



Phonemic Awareness

Segmentation of Phonemes

Move on to longer multisyllabic words as the number of syllables is also a skill needed.

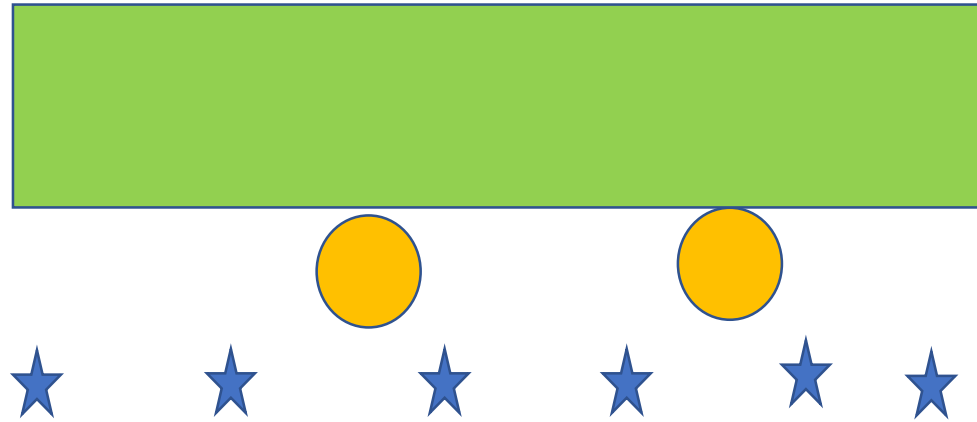


n a p k i n



Phonemic Awareness

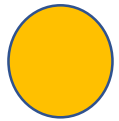
All done without letters



Phonemic Awareness

Segmentation of Phonemes

Related to spelling



m u s t



Problems often seen with consonant blends



Numerous Phonemic Awareness Skills

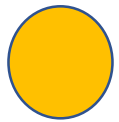
- Identification of Phonemes
- Blending Phonemes
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



Phonemic Awareness

Deletion of Phonemes

Related to spelling



c a t



without initial /k/

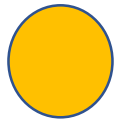
a t



Phonemic Awareness

Deletion of Phonemes

Related to spelling



s oa p



without final /p/

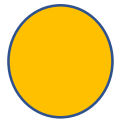
so



Phonemic Awareness

Deletion of Phonemes

Related to spelling



clip

★ ★ ★ ★ without initial /k/

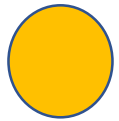
lip



Phonemic Awareness

Deletion of Phonemes

Related to spelling



f or k

★ ★ ★ ★ without final /k/

for



Phonemic Awareness Skills

- Identification of Phonemes
- Blending Phonemes
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



Phonemic Awareness

Addition of Phonemes



Related to spelling

i t



add initial /f/

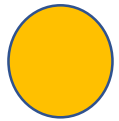
fit



Phonemic Awareness

Addition of Phonemes

Related to spelling



t ie



add final /m/

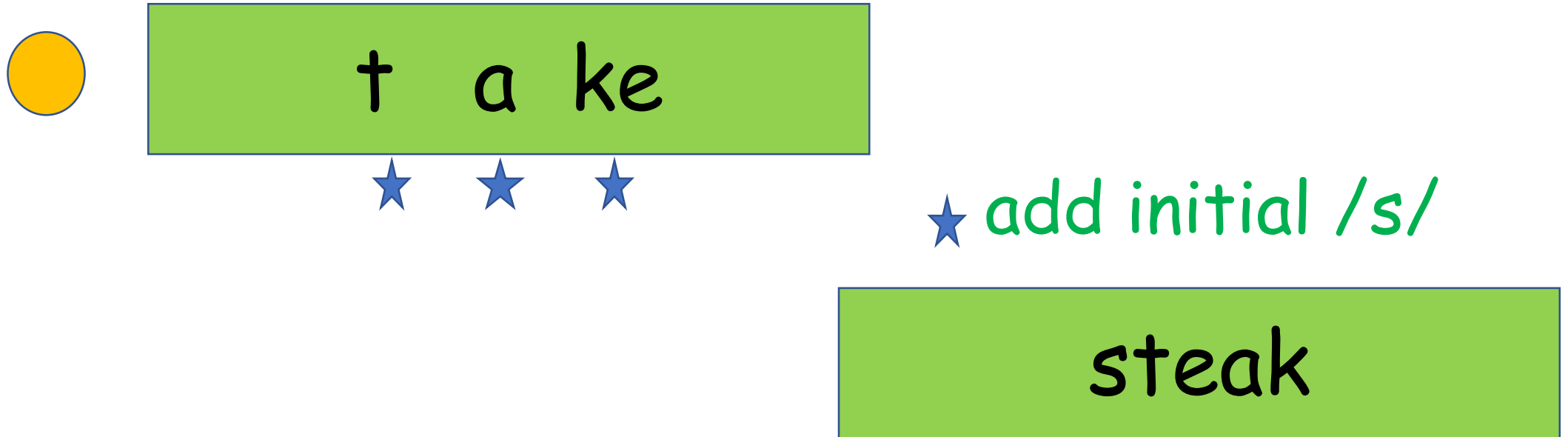
time



Phonemic Awareness

Addition of Phonemes

Related to spelling



Phonemic Awareness

Addition of Phonemes

Related to spelling



Again, problems often seen with consonant blends



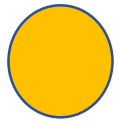
Numerous Phonemic Awareness Skills

- Identification of Phonemes
- Blending Phonemes
- Segmentation of Phonemes
- Deletion of Phonemes
- Addition of Phonemes
- Manipulation of Phonemes



Phonemic Awareness

Manipulation of Phonemes



bat



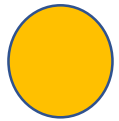
Change initial /b/ to /h/

hat



Phonemic Awareness

Manipulation of Phonemes



g oa t



Change middle /ō/ to /ĕ/

get



Phonemic Awareness

Manipulation of Phonemes

final sounds seems to have auditory memory component



l oa d



Change the /d/ at the end to /n/

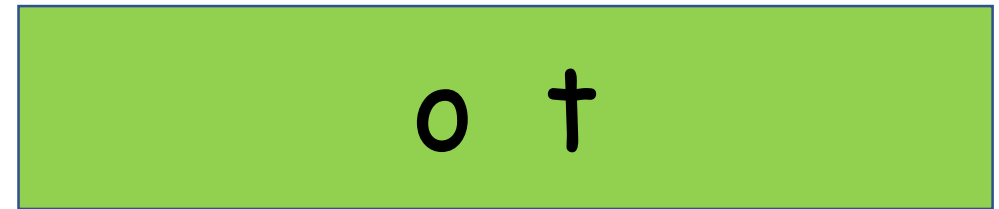
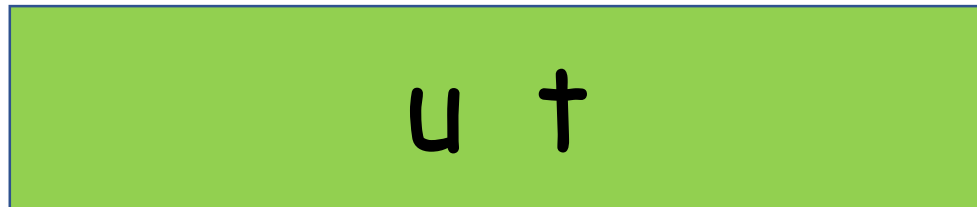
loan



Phonemic Awareness

Manipulation of Phonemes

Tasks with nonsense words remove the memorization compensation skill so many of our older students rely on for spelling.



change /ü/ to /ö/



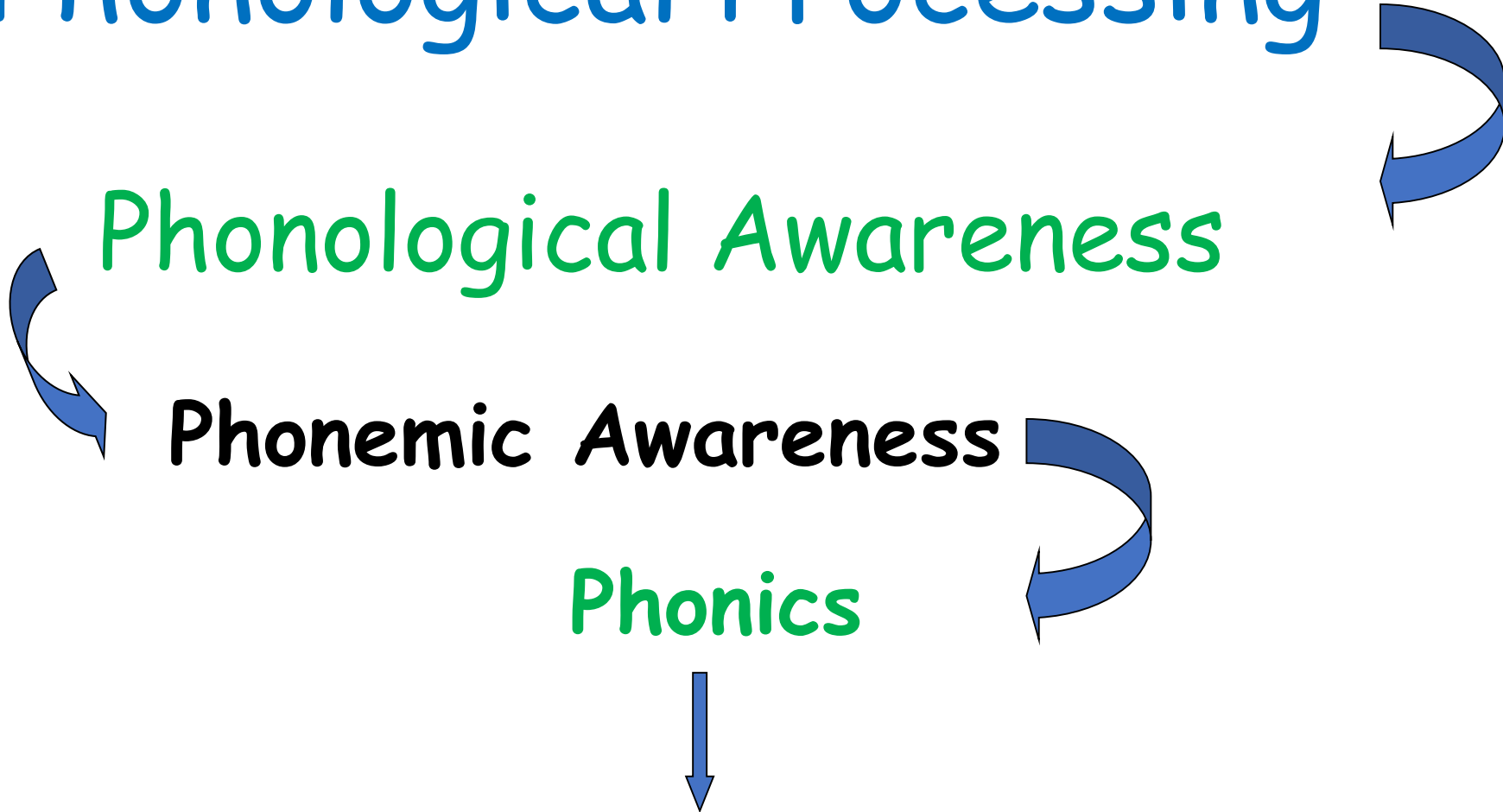
Phonological Processing

Phonological Awareness

Phonemic Awareness

Phonics

Language and Reading Skills



Phonemic Awareness

Phonics





Where does phonemic awareness end and phonics begin?

- They are highly intertwined.
- Students need to hear the sounds.
- Students need to know how to spell the sounds.
- Students need to understand the options for spelling of the sounds.



Quiz for /k/

List all 5 ways to spell /k/: _____

Initial /k/: Use k before _____, _____, and _____.

Use c before everything else.

Final /k/ rule: Never use c at the end of a one syllable word to spell /k/.

Use _____ or -ck at the end of 1 syllable words.

At the end of longer words, use _____.



English is actually 80% predictable

- Let's look at the sound /ō/ in the 20,000 most often used words according to a study by Hanna and colleagues:
 - o was used 140 times
 - oe was used 13 times
 - ow was used 74 times
 - oa is the most frequent use when followed by /t/
and /d/
 - o-e is the most common way to spell in stressed
syllables



LONG VOWEL CHOICES

Sound	End of syllable	In the middle		End of word	Low Frequency Choices			
		1st choice	2nd choice					
ā	a	a-e	ai	ay	ea	eigh	ei	ey
ē	e	ee	ea	y	e-e	ie	ei	ey
ī	i	i-e	igh	y	y-e	ie		
ō	o	o-e	oa	ow	ou	oe		
ū	u	u-e		ew	eu	ue		
oo	u	oo	u-e	ew	eu	ue	ui	ou



Structured and Sequential

Table of Contents for Book 1

c cat	/k/.....	1
d dinosaur	/d/.....	3
g goat	/g/.....	5
m mouse	/m/.....	7
h horse	/h/.....	9
s sun	/s/.....	11
t tiger	/t/.....	13
n nest	/n/.....	15
Concepts	syllable, consonant, vowel, CVC.....	17

Table of Contents for Book 2

Closed Syllables CVC.....	3
Vowels in Closed Syllables.....	5
Open Syllable CV.....	7
Initial /k/.....	11
Use k before i, e, y (soft vowels).....	13
v vest /v/ and -ve rule.....	15
j jet /j/ and j rule.....	16a
x box /ks/.....	23
X Rule.....	23



First Level of Word Attack

- Letter Sounds
- Six kinds of syllables
- Syllable division rules
- High frequency sight words
- FSZL spelling rule (f,s,z,l)
- Longer spelling after short vowel
(k/ck, ch/tch, ge/dge)



Second Level of Word Attack

Base words = stand alone words

(man)

Roots = the original form from which a recorded word is derived

(port=carry)

Affixes = prefix and/or suffix

(trans • port • ing)



Table of Contents for Book 4

V.CV Tiger Words.....	
VC•V Camel Words	
Optional Lessons	
i tiger /ī/	
a halo /ā/	
o robot /ō/	
u music /ū/	
u tulip /oo/	
e fever /ē/	
Schwa sound /ə/.....	
Prefix pre-	
Suffix -tion.....	
Suffix -ture.....	
Prefix con-	

Table of Contents for ETC Book 10

The Lion Rule.....	1
V/V li on.....	1
Extending the V/V concept:.....	5
-i- podium /ē/	9
-or doctor /er/.....	13
-ere sphere /ēr/	17
-ci- magician /sh/.....	21
-ti- patient /sh/	26
-sion television /zhun/.....	33
-sion admission /shun/.....	33
-tu- spatula /choo/.....	39



Morphology



Morpheme: *the smallest unit of meaning in the language.*

Morphology: *study of how morphemes are combined to form words.*

trans • port • ing



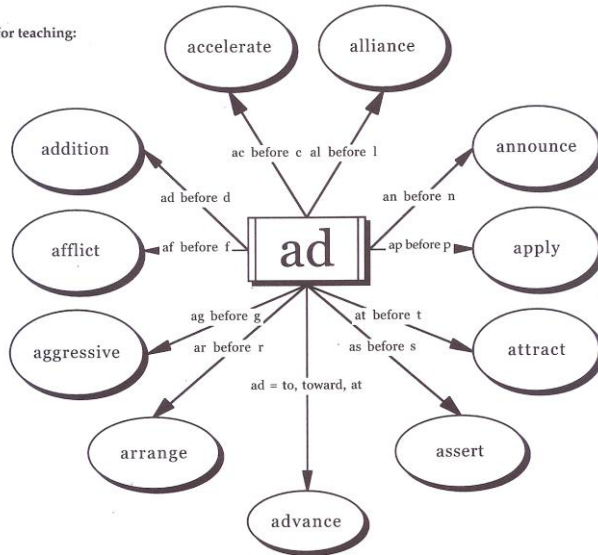
Latin Influence

Latin

No "k"; schwa sounds; ligatured "tu" saying /ch/ and "du" saying /j/; "ti, si, ci, xi" saying /sh/. Doubling of consonants at the beginning of words; connectives "i, u, ul, and ol"; roots ending in -ct and -pt. Latin prefixes/roots/suffixes. Chameleon prefixes: e.g., con, com, col, co, col.

port = to carry tract = to pull struct = to build
flect, flex = to bend mit, miss = to send dic, dict = to say

Chart for teaching:



Assimilated prefixes like *ad-* to, toward



Greek Influence

Greek

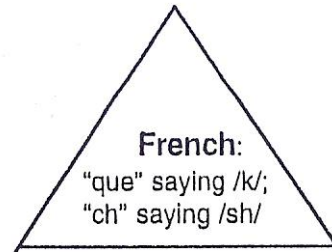
"ch" saying /k/; "ph" saying /f/; silent p; "mn" words; "y" in the body of word; "th" in long words.
-cian; connective "o" to combine 2 roots.

Greek prefixes/roots/suffixes.

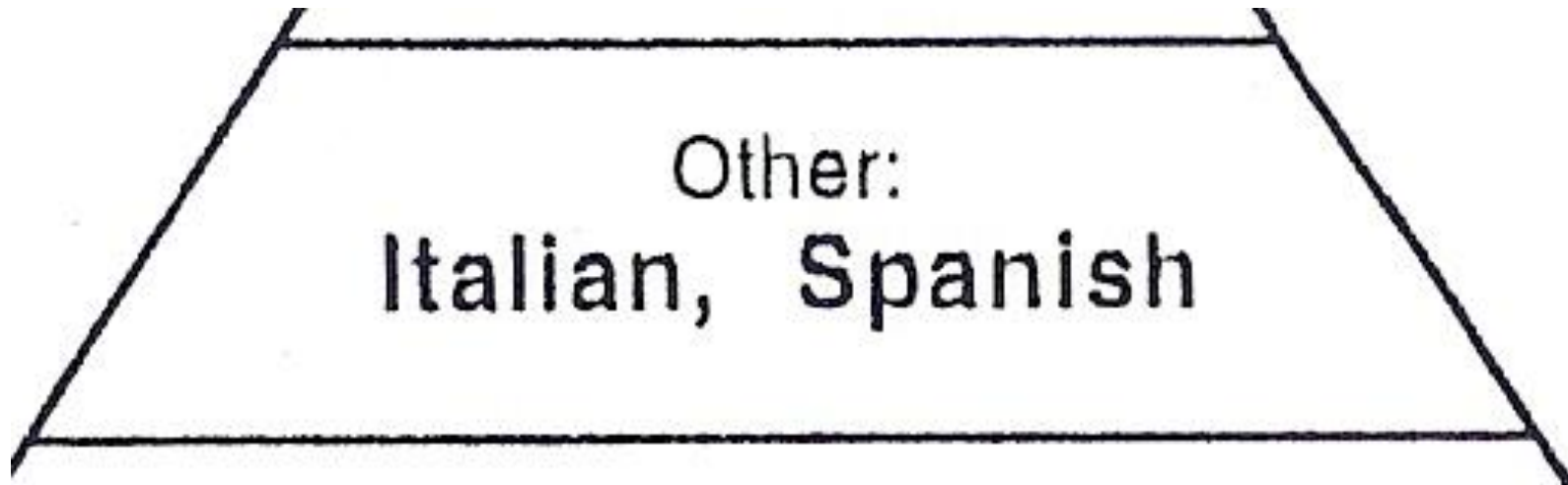
Greek combining forms: "phono-graph"
Words relating to theater, science, Olympic games and Greek history/myths.



French influence

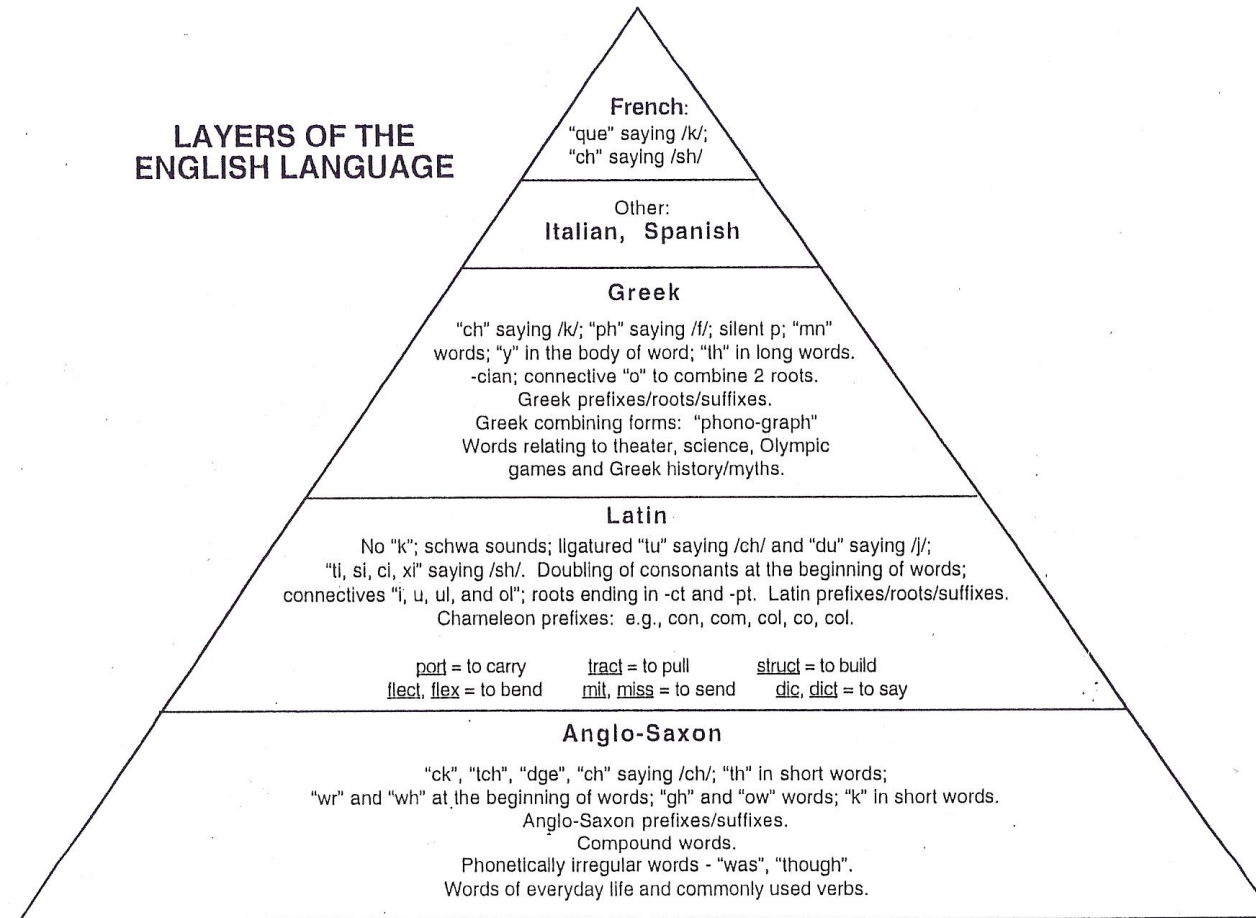


Spanish and Italian influence



Layers of the English Language

Marcia Henry





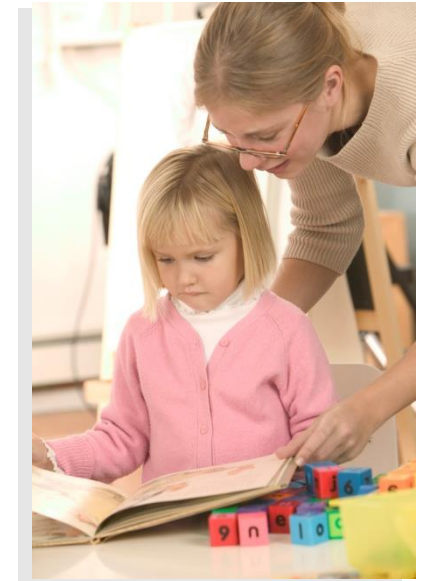
Key Elements of Decoding Instruction

- Phonological Awareness, especially phonemic awareness
- Instant letter-recognition
- Sound-symbol correspondence
- Syllable types
- Morphemic Awareness
- Syllable Division Patterns
- Procedure for Irregular Words
- Orthographic Pattern Knowledge
- **Time** to practice for Accuracy and Fluency



National Reading Panel Conclusions

- **Phonemic Awareness** - Explicit instruction in phonemic awareness improves a child's reading and spelling skills
- **Phonics** -Instruction in systematic phonics produces significant benefits for students in K-6th grade, and for children having difficulty learning to read
- **Fluency** -Guided oral reading is more beneficial than reading silently without feedback
- **Vocabulary** - taught both directly and indirectly, using several methods. Give information about words' definitions and see examples of use in text
- **Comprehension** -Reading comprehension improves when children are taught strategies such as determining the main idea, sequencing events, and drawing inferences



More Statistics

- 20% of children would learn to read no matter what we did to them.
- 20% need carefully sequenced, multisensory methods and materials in order to “**crack the code**”, and bring sound/symbol correspondence and blending to an automatic level.
- That leaves roughly 60%.
Of these, a high percentage are neither dyslexic nor learning disabled, but need direct instruction in order to master reading.

Everyone can learn with Structured Literacy



So.....

What did you learn?



Dyslexia is.....

- A specific learning disability that is neurologic in origin.
- Characterized by difficulties with
 - decoding (symbol-sound) and encoding (sound-symbol)
 - accurate and/or fluent word recognition
- Often accompanied by handwriting issues (dysgraphia)
- Often accompanied by reading comprehension issues



Dyslexia is NOT

- Reading letters and words backwards
- A lack of intelligence or effort
- Strictly an attentional issue like ADHD
 - This often co-exists with dyslexia, but it is not the cause.



Can students with dyslexia perform well in school?

Yes! Many dyslexic students perform very well in school. These students are usually highly motivated and work extremely hard.

In many cases they have been **identified early** and have received **evidence-based interventions** and **accommodations**, such as extra time on tests, which allows them to demonstrate their knowledge.

Questions?



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