# The Science of Hebrew Literacy

# Scott J. Goldberg, Ph.D.

and

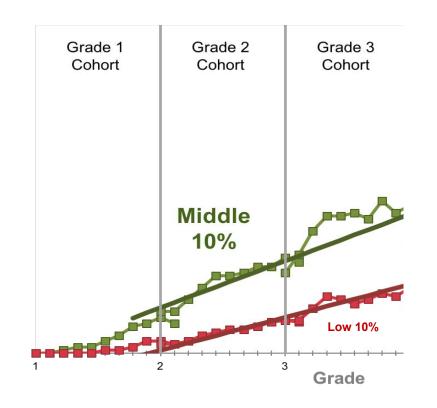
Bayla Oster Kopel, Tamim Academy and Scott Goldberg Consulting

# **Essential Questions**

- How does the brain learn to read?
- Why does it matter for reading that the linguistic structures of Hebrew are different than English?
- How might we incorporate the most crucial skills for Hebrew reading into our classrooms to advance student development?

# Turn and Talk:

 What experiences in Hebrew reading are we preparing students for?



- Matthew Effect "Rich get richer...poor get poorer"
- UNLESS we intervene with approaches supported by science

# How do reading skills typically develop?



# Reading is a **language task**.



### Simple View of Reading

### Word Recognition

- Phonological Awareness
- Decoding (sound/symbol correspondence)
- Sight recognition

### Language Comprehension

- Background
   Knowledge
- Vocabulary
- Language Structures

+

- Verbal Reasoning
- LiteracyKnowledge

### Reading Comprehension

Skilled Reading



Word Recognition Language Comprehension

# How do these language skills typically develop?

## LANGUAGE COMPREHENSION: Oral Words (Listening)

Sounds Oral We hear a sequences Meaning is vocabulary is sequence of recognized and retrieved matched to sounds activated stored sounds Hear sounds: Recognize the I know the I picture what "Sunflower" sounds word the word means

### Oral Words (Listening) and Written Words (Reading)\*

We hear a sequence of sounds



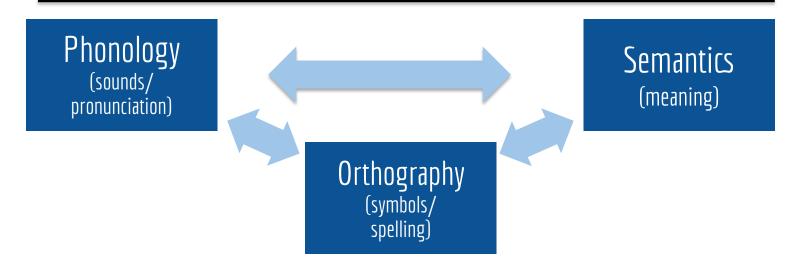
Sounds sequences recognized and matched to stored sounds



Oral vocabulary is activated

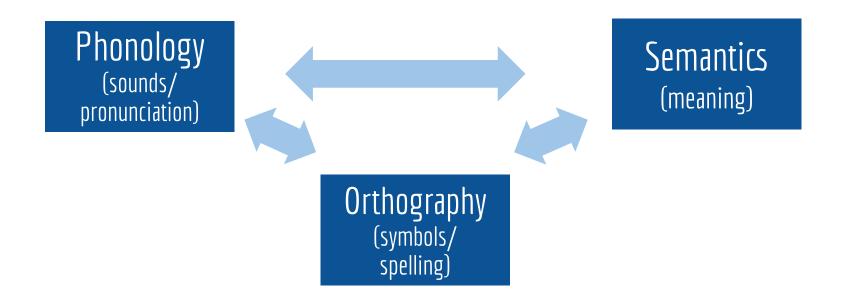


Meaning is retrieved



### **Orthographic Mapping:**

"Mental process we use to permanently store words for immediate, effortless retrieval."



The Georgian alphabet (with its English counterparts)

**გალარჯეთს გაკთელსალექსი მას უქეს რო-მელსა.** გილარ**ჯეთს გარგის (ტმო-გვე-ლსა, მას ეხა დაწმრო-მელსა.** და **ჯ**არიელ მისა ტუსთველსა. მის-თჳს

Georgian text

If you were taught *only* the symbols of Georgian, would you be able to read with fluency, accuracy, and comprehension?

# Turn and Talk:

Based on the above science,

- What of this information resonates with you?
- What are you grappling with?
- What are a few implications for teaching?

# Implications for Instruction

Learning to Read in Hebrew

# Guiding Assumptions about Learning to Read

1. Oral language is important.

Skilled reading relies on meaning!

1. Decoding and comprehension are both important.

Skilled reading relies on <u>both</u>.

3. Accuracy involves reading whole words fluently.

"Broken" syllable reading is a step to fluent reading but is not accurate.

Orthographic knowledge relies on language knowledge.

3. Without accuracy and fluency the goal of comprehension is unrealistic.

How can I understand if I can't read clearly and correctly?

### In Our Classrooms...

5. Programs do not teach reading... **Teachers teach reading.** 

5. The texts students will need to read should guide the teaching and learning.

Which Hebrew texts will your students need to read regularly now and in the future?

# **Learning to Read Hebrew** requires us to address

★ Oral language background in Hebrew

★ Unique linguistic structures of Hebrew (different from English)

# Our students enter school with limited Hebrew oral language/vocabulary...

- Second language (L2)
- Students need significant vocabulary exposure

(to replicate that which would have come through typical oral language exposure in L1).



### More Second Language (L2) Considerations:

 Language specific (and some non-specific) literacy skills do not transfer.

 The linguistic structures of Hebrew (abjad) are different from English (alphabet).



# The Structure of Hebrew Closed Syllable:

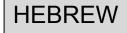
Onset-Rime vs. Body-Coda



Onset - Rime:

c-at

7



Body - Coda:

ca-t

17

# **Letter / Vowel Units**

ENGLISH

Phonemes

/c/ /a/ /t/

**Final Consonant** 

cat





- Smallest unit for Hebrew is typically the bi-phonemic syllable (CV unit).
- Phonemic awareness is needed only for coda (final consonant of a syllable).

DO NOT TEACH/LEARN BY PHONEME EXCEPT FOR CODA:  $/\lambda//_{-}//7/$ 



# Phonological Awareness

הַזָּן אֶת הָעוֹלָם כֵּלוֹ בְּטוּבוֹ	Word
הָ-עוֹ-לָם	Syllable ("Beat")
לָ-ם	Body-Coda*
מ	Coda (Final Consonant)*

# Orthographic Principle



הַזָּן אֶת הָעוֹלָם כֵּלוֹ בְּטוּבוֹ	Word	1
הָ-עוֹ-לָם	Syllable ("Beat")	
בָֿ-ם	Body-Coda*	
	Coda (Final Consonant)*	



# DEVELOPMENT



# Phonological

הַזָּן אֶת הָעוֹלָם כָּלוֹ בְּטוּבוֹ	Word
הָ-עוֹ-לָם	Syllable ("Beat")
לָ-ם	Body-Coda*
	Coda (Final Consonant)*

### Orthographic Depth

How much of a 1:1 correspondence is there between sound and symbol?

Consider both directions – decoding and encoding

Swahili Hebrew Spanish English Hebrew Italian (w/vowels) German (w/o vowels) Finnish Russian Japanese Shallow Moderate Deep

# **Amount of Reading in L2**

Students tend not to read in Hebrew as much as they do in English (and are not encouraged or required to do so).

Percentile Rank	Minutes of Reading Per Day	Baseline - Words Read Per Year	Plus 10 Minutes - Words Read Per Year	Percent Increase in Word Exposure
98	65	4,358,000	5,028,462	15%
90	21.1	1,823,000	2,686,981	47%
80	14.2	1,146,000	1,953,042	70%
70	9.6	622,000	1,269,917	104%
60	6.5	432,000	1,096,615	154%
50	4.6	282,000	895,043	217%
40	3.2	200,000	825,000	313%
30	1.8	106,000	694,889	556%
20	0.7	21,000	321,000	1429%
10	0.1	8,000	Based on reading level, ~300,000 words	
2	0	0		

Distribution of time spent reading books outside of school, with estimated words read per year and projection of increased words per year if each child's average daily time spent reading were increased by ten minutes. Adapted from Adams (2006), with baseline data from Anderson, Wilson, & Fielding (1988).

## More Second Language (L2) Considerations:

- Comprehension strategies
  - Students demonstrated less diversity in comprehension strategy choice in Hebrew than in English (Goodman, 2007). This may be due to:
    - a less developed oral vocabulary in Hebrew
    - an inability to rely on semantic cues to support word-identification.
  - Comprehension strategy instruction is limited
- Cultural differences in content choices
  - At Work vs. עבודה



# Some Basic Early Literacy Skills We've Learned

### **Phonological Awareness**

The ability to perceive and manipulate sounds

### **Reading Comprehension**

The complex cognitive process involving the intentional interaction between reader and text to extract meaning.

### Orthographic Principle

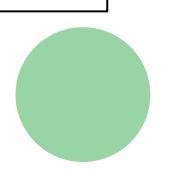
The ability to associate sounds with symbols and use these sounds to read words.

### Vocabulary and Oral Language

The ability to understand (receptive) and use (expressive) words to acquire and convey meaning.

### Plus one more...

Word level reading isn't fluent. Skilled readers read connected texts fluently.



# Fluency with Connected Texts

The effortless, automatic ability to read words in connected text accurately, and with proper speed and prosody.

# The 5 Basic Early Literacy Skills

### **Phonological Awareness**

The ability to perceive and manipulate sounds

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The ability to understand (receptive) and use (expressive) words to acquire and convey meaning.

### Orthographic Principle

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### Fluency with Connected Texts

The effortless, automatic ability to read words in connected text accurately, and with proper speed and prosody.

# Turn and Talk:

Based on the above science,

- What of this information resonates with you?
- What are you grappling with?
- What are a few implications for teaching?

# Overview: Phonological Awareness

The ability to perceive and manipulate the sounds of language.

# **Examples of Phonological Awareness**

I identify that בֶּלֶךְ ends with /ק/. I delete the syllable לָה from הַּבְדָּלָה.

# Why Phonological Awareness?

Understanding of the system and structure of oral language

"I know the sounds of

language"



Fluent, skilled proficiency in the system of written language

"I can read the sounds of language"



# Phonological Awareness

הַזָּן אֶת הָעוֹלָם כֵּלוֹ בְּטוּבוֹ	Word	
הָ-עוֹ-לָם	Syllable ("Beat")	
לָ-ם	Body-Coda*	
מ	Coda (Final Consonant)*	

Segment this phrase into individual words:

\*Reminder: This is an <u>oral</u> activity, not a written one.

הַזָּן אֶת הָעוֹלָם כֵּלוֹ בְּטוּבוֹ

★ How many words are in this phrase?

★ Which words do you hear inside of it?

★ What would be left if we deleted the first word?

Why might this skill be important for reading?

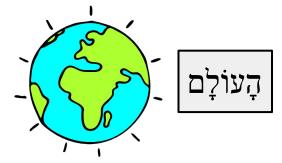
Syllable

("Beat") Body-Coda\*

Coda

(Final Consonant)\*

### Segment this word into individual beats (Orally):





★ What is left if we delete the first beat? The last beat?

Word

Syllable
("Beat")

Body-Coda\*

Coda
(Final
Consonant)\*

Why might this skill be important for reading?

Word

Syllable ("Beat")

Body-Coda\*

Coda (Final Consonant)\*

Onset - Rime:

c-at

**HEBREW** 

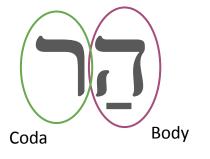
**ENGLISH** 

Body - Coda:

ca-t

#### "Coda" = final consonant sound in a beat.





Word

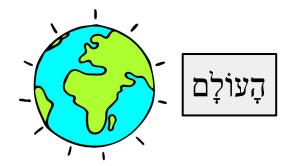
Syllable
("Beat")

Body-Coda\*

Coda
(Final
Consonant)\*

Why might this skill be important for reading?

## Segment the final beat of this word into Body / Coda:





What is the coda?

What is the body?

Word Syllable ("Beat") Body-Coda\* Coda (Final

Consonant)\*



# Phonological Awareness Recap

הַזָּן אֶת הָעוֹלָם כֵּלוֹ בְּטוּבוֹ	Word	
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# Reflect:



★ What do these skills contribute to our students' reading foundation?



★ What is missing without these skills?

## 5 Basic Early Literacy Skills (Recap)

### Phonological Awarenes

The ability to perceive and manipulate sounds

#### **Reading Comprehension**

The complex cognitive process involving the intentional interaction between reader and text to extract meaning.

### Vocabulary and Oral Language

The ability to understand (receptive) and use (expressive) words to acquire and convey meaning.

#### Orthographic Principle

The ability to associate sounds with symbols and use these sounds to read words.

#### Fluency with Connected Texts

The effortless, automatic ability to read words in connected text accurately, and with proper speed and prosody.

44

## Overview: Vocabulary and Oral Language

The ability to understand (receptive) and use (expressive) words to acquire and convey meaning.



l can point to the ゼ次ヅ in the sky. When I see the sun, I say, "ゼ次ヅ."



When I see a picture of the left see, I say, "קידּוּשׁ!!

We do that at home!"



I recognize the word לֶּהֶם when I read it, because I say the blessing for it all the time.



When I hear the word מֵיִם, I think of a glass of cold water, or the ocean.

# Reflect:



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51

# Overview: Orthographic Principle

The ability to associate **sounds** with **symbols** and use these sounds to read words.

(Decoding ability)

# Orthographic Principle



הַוָּן אֶת הָעוֹלָם כֵּלוֹ בְּטוּבוֹ	Word	1
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When I see  $\psi$  at the end of a word, I say the sound /sh/.

# מה

l read the sound /moo/ when I see מוּ



l see ッぱゅゅ on the page. I know the sounds so I can read, "ッなな。"



I can read whole words automatically.

# Reflect:



★ What do these skills contribute to our students' reading foundation?



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## Phonological Awarenes

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#### **Reading Comprehension**

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#### Fluency with Connected Texts

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# Overview: Fluency with Connected Texts

The effortless, automatic ability to read words in connected text accurately, and with proper speed and prosody.

→ <u>Prosody:</u> Smooth cadence and expression (non-robotic)

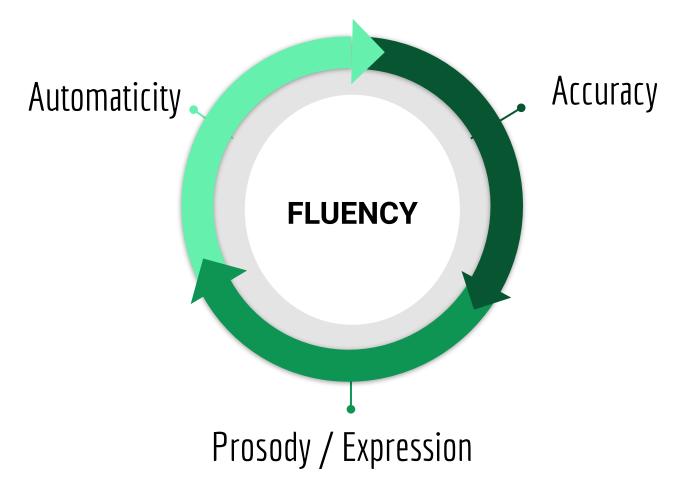
# בָּרֵאשִׁית בָּרָא אֶלוֹקִים אֵת הַשְּׁמַיִם וְאֵת הָאָרֶץ:

Dysfluent Reading

"like a robot"

Fluent Reading

"the smooth way"



# Reflect:



★ What do these skills contribute to our students' reading foundation?



★ What is missing without these skills?

## 5 Basic Early Literacy Skills (Recap)

## Phonological Awarenes

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#### **Reading Comprehension**

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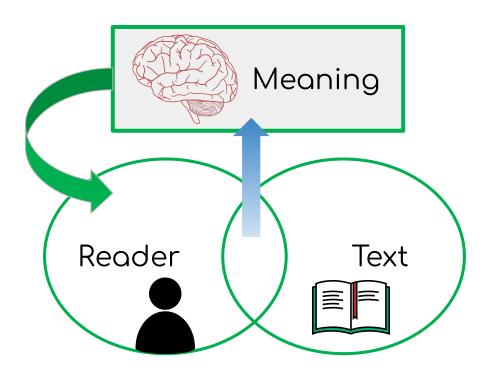


The effortless, automatic ability to read words in connected text accurately, and with proper speed and prosody.

# Reading Comprehension

The complex cognitive process involving the intentional interaction between reader and text to **extract meaning**.

# Reading Comprehension



After reading the story of אַבְרָהָם אַבִינוּ מִלְאָכִים, I can sequence the events of the story. I gain meaning from a story titled,

דּשָּׁבֶּשׁ זוֹרַחַת בַּחוּץ

I can retell the events of the story.

I then talk about days I have spent in the sun, and other familiar stories with a similar theme.

When I read a few Psukim from the Chumash, I can summarize the main point and ask analysis questions.

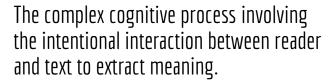
I "transform" my understanding of the Psukim I read by acting them out in the Drama Center.

## 5 Basic Early Literacy Skills (Recap)

### Phonological Awarenes

The ability to perceive and manipulate sounds

### **Reading Comprehension**



### Orthographic Principle

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# Reflect:

- How have you seen these skills included in Hebrew literacy programs?
  - O Which skills did you see? Which did you not see?

What is something new that you learned today?

# Introduction to Instructional and Intervention Strategies

Based on the Science of Hebrew Reading

### Simple View of Reading (Review)

+

### Word Recognition

- Phonological Awareness
- Decoding (sound/symbol correspondence)
- Sight recognition

### Language Comprehension

- Background
   Knowledge
- Vocabulary
- Language Structures
- Verbal Reasoning
- LiteracyKnowledge

### Reading Comprehension

Skilled Reading



# 5 Basic Early Literacy Skills (Recap)

### **Phonological Awareness**

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# 1. Phonological Awareness

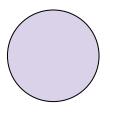
# Segmenting:

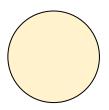
Dividing larger parts into smaller parts: Words into beats, beats into body/coda.

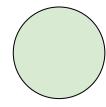
# Use Manipulatives









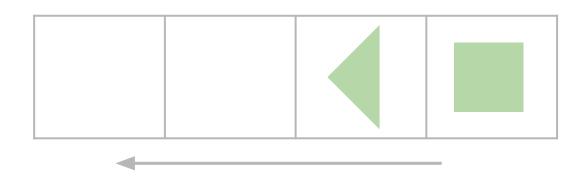












Why is segmenting important for students' future reading ability?

# **Blending**



״בֶּלֶּךִ״







״בֶּ״

# Blending



"קידוש"







"קר"

# **Blending**



<u>ייבריי</u>

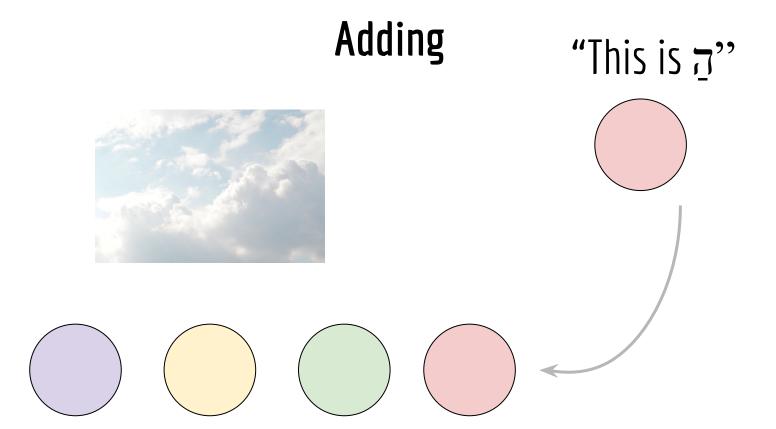


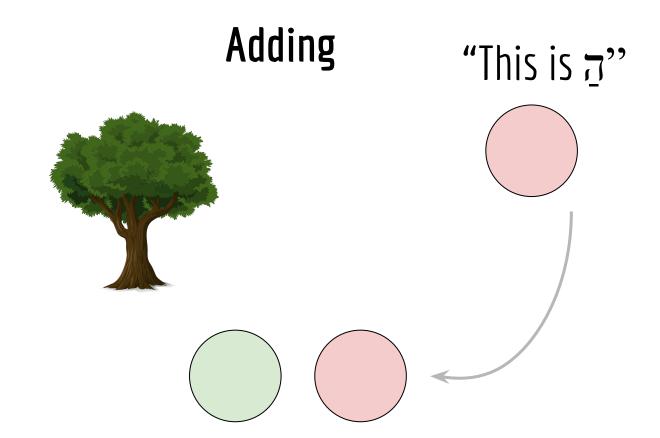




<u>"</u>\_"

Why is blending important for students' future reading ability?





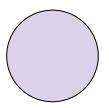
Why is adding phonological components important for students' future reading ability?

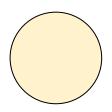
# **Deleting**

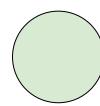


Now we'll take away the last beat.

What is left?

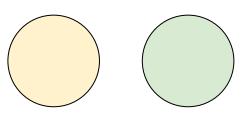






# **Deleting**





Now we'll take away the last beat.

What is left?

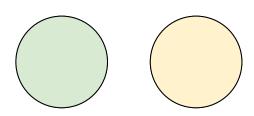
# **Deleting** Orally:

- מָשׁ without the חֲמֵשׁ is...
- ישָׁמֵע without the שָׁ is...
- שַבוּעַ without the שַבוּע is...
- עם without the ץ is...

Why is deleting phonological components important for students' future reading ability?

# Manipulation



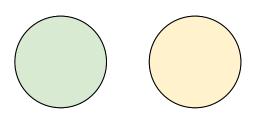


Now we'll switch the beats.

What is our word now?

# Manipulation





Now we'll switch the beats.

What is our word now?

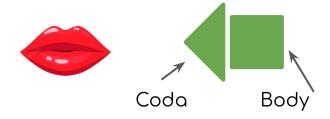
Why is manipulation important for students' future reading ability?

### Open Beats





### Closed Beats



Explicitly teach about open/closed beats.

★ Fingers/hand under chin "Does your mouth stay open at the end of the beat?"

★ Begin with open
"מה" ... My mouth stays open and there is no coda sound."



★ Closed – start with end of word

The last syllable/beat is לָם

My mouth closes to say the coda sound /m/."

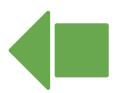


★ Shva nach – closed beat in middle of word "The first beat of מֵלְכָּה is מֵלְכָּה.
My mouth closes to say the coda sound /l/.



# Try It Out!

Closed





Open





Open ← Open











Open ← Closed





Closed ← Closed

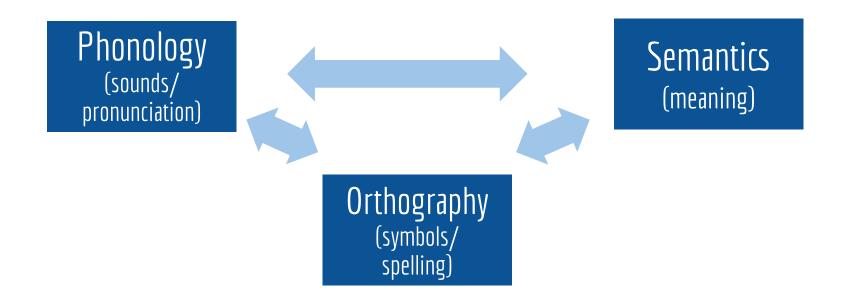




# 2. Orthographic Principle & Word Attack Skills

### **Orthographic Mapping: (Recap)**

"Mental process we use to permanently store words for immediate, effortless retrieval."



### Introducing Letters (final letters in words)

- 1. "We're going to read some words that end with the sound on the board the sound  $/\lambda$ /. This [point to the  $\lambda$ ] says /g/."
- 2. "Now listen to the words we're going to read." [Teacher says each word and students repeat each orally.]
- 3. [Teacher points to the diamond and "reads" one word as a model.]
- 4. "Now read with me." [Teacher repeats "reading" the word with the students.]
- 5. "Now read it yourself." [Teacher points to the diamond and students "read" the word.
- 6. Repeat for other word(s).]



Teacher Word List [not shown to students] 入Ţ

### **Introducing Letters (final letters in words)**

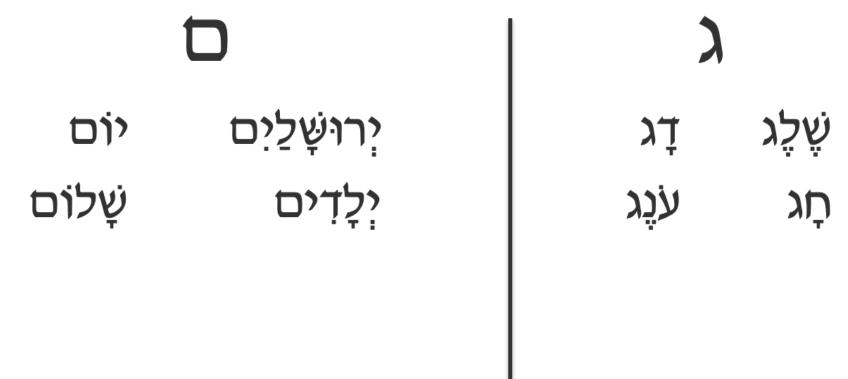
- 1. "We're going to read some words that end with the sound on the board the sound /מ/. This [point to the ם] says /m/."
- 2. "Now listen to the words we're going to read." [Teacher says each word and students repeat each orally.]
- 3. [Teacher points to the diamond and "reads" one word as a model.]
- 4. "Now read with me." [Teacher repeats "reading" the word with the students.]
- 5. "Now read it yourself." [Teacher points to the diamond and students "read" the word.
- 6. Repeat for other word(s).]



Teacher Word List [not shown to students] יְלִדִים יְרוּשָׁלַיִם

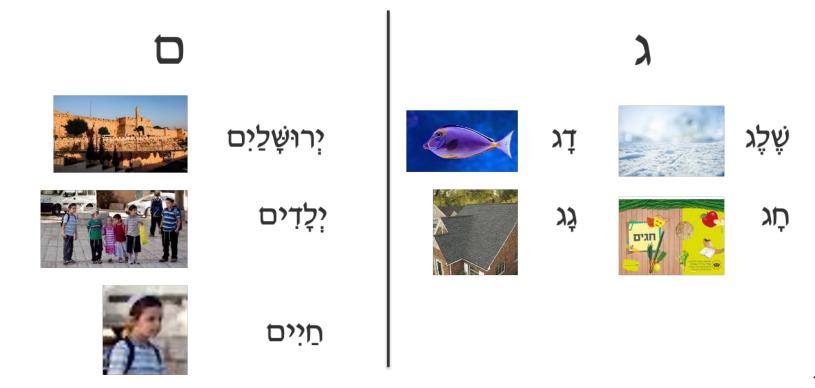
# **Word Wall by Final Consonant**

(a best practice in organizing words)



# **Word Wall by Final Consonant**

(a best practice in organizing words)



# Introduce vowels connected to letters... ...not as separate units to blend.





## Link letter-vowel units with phonological awareness.

Orally: What is the first bea



What is the first beat of つゆう?



What is the first beat of בָּקָר?



# 2. This is how we spell that sound







### Applying Phonological Awareness to Decoding







### **Encoding**

Combining letter-sound units to create words. (i.e., spelling)

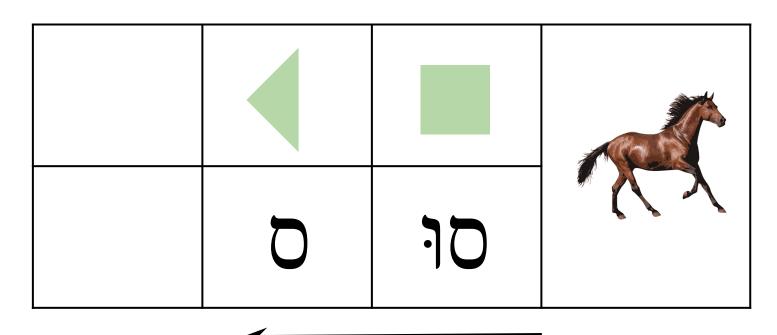
Note: *Encoding* is <u>not</u> the same as *writing*.

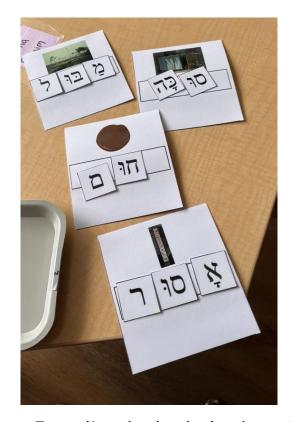
# Encoding teaches students to apply their sound-symbol knowledge in an active way.

Encoding also allows teachers to assess students' orthographic knowledge.

#### Applying Phonological Awareness to Encoding

Double-Decker Sound Boxes

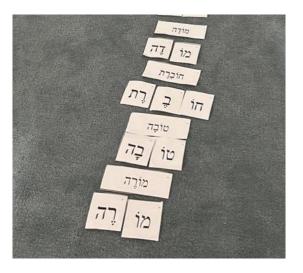




Encoding by body/coda unit + Representing known vocabulary

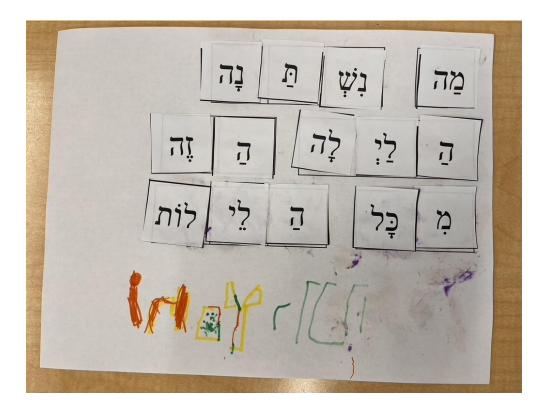


Encoding by beats

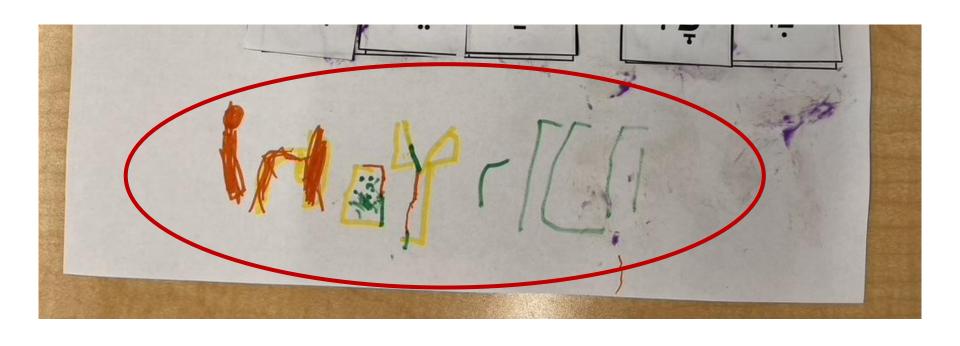


#### **Encoding by beats:**

- 1. Student reads word aloud to herself.
- 2. Student turns over the card so she cannot see it.
- 3. Student encodes the word.
- 4. Student checks her work.



Encoding known texts



A word about "backwards" writing. This is not dyslexia.

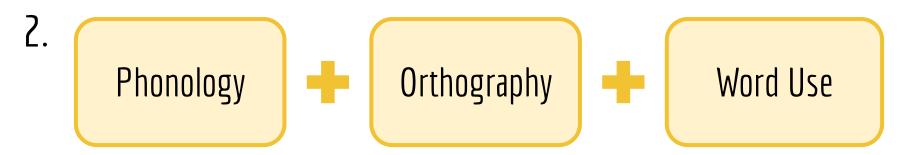
#### Word Wall by Beginning CV Unit

(a best practice in organizing words)

<b>j&gt;</b>	<b>&gt;</b>	Ÿ	ÿ
יוֹם	יְרוּשָּׁלַיִם	שָׁלוֹם	שָׁמֶשׁ
יוֹבֵל	יְלָדִים	שָׁמוֹר	שֶׁלֶג
		שָׁלשׁ	שֶׁקֶר

# Orthographic Mapping and "Chunks" of Words

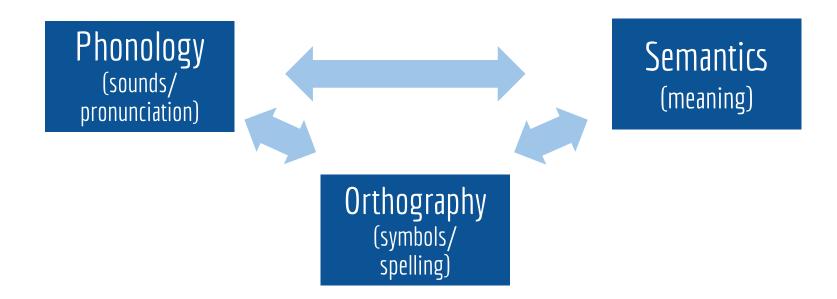
1. Structure of Hebrew (shoresh, prefixes, suffixes)



3. Chunking → Greater familiarity with new words

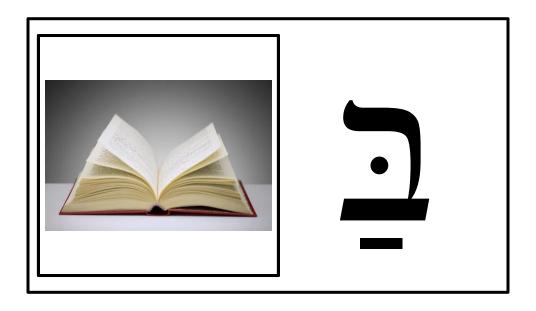


# as a Prefix



## as a Prefix

- Teacher explains: Sometimes, we add new sounds to the words we know to change the meaning of the word a little bit.
- Teacher demonstrates: לֵב is a word I know. What happens when I put this [show בַ card] at the beginning? Now I can read it: בַּלֶב.
- Let's see what \( \frac{1}{2} \) tells me.
  - בְּרֶבֶּר [show image]. Then, put a toy person on the image. Now, he is
  - בּיתָה [show image]. Then, put a toy person on the image. Now, he is
- Ask students what they noticed: What does a add to a word?



## 1 as a Suffix

- "Today we will be adding a sound to the end of a word, which is called a suffix."
- Teacher demonstrates: רָאָה is a word I know. What happens when I put this [show i card] at the end? Now I can read it I will take away the אָ and change it to אָן, like this: רַאוּ
- Hold up the picture of one person looking at something. This is רָאָה. Then, take out the picture of the group looking. Now, this is רָאוֹּ.
- Hold up the picture of one person building. This is בָּנָה. Then, take out the picture of the group building. Now, this is בַּנֹה.
- Ask students what they noticed: What does and to a word? (A group did it.)

#### Match the words.



















### Match the words.

ַרְאוּ	קמוּ	בָבוּ
רָאָה	ָרָ בּ	֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֝֝֝֝֓֓֓֝֝

## Sight Words

"Familiar written word that is recognized instantly, automatically, and effortlessly, without sounding it out or guessing."

Sight words develop through strong vocabulary knowledge.



#### Using a slideshow of words to practice sight words.

## Word-Level Fluency

- 1. Using pictures to cue reading is not effective to build word-level fluency.
- 1. We must teach students how to blend syllables/beats into whole words.

# ★ The Structure of Hebrew: High exposure to multi-beat words



Word Level: Model blending (always blend together after sounding out)

#### Blending Instruction

#### Classroom example:

After a student encodes a word, point to each part:

- "What is the first part?"
- "What is the second part?"
- "Put them together. What is the word?"

#### **Blending** Developmental stages through which to guide your students:

- 1. Stage 1 Overt sound out aloud then "fast way"
  - a. Aloud: ゼカザ 🔶 ゼカ

- 1. Stage 2 Overt sound out whisper then "fast way"
  - b. Whisper: どは
  - c. Aloud: מַעֵּשׁ

- 3. <u>Stage 3</u> Overt sound out just moving lips then "fast way"
  - a. Moving lips: ガカ ザ
  - b. Aloud: שֶׁבֶשׁ

- 3. Stage 4 Internal sound out then "fast way"
  - b. Thinking: ガカ ザ
  - c. Aloud: שֵׁמֶשׁ

**3. Stage 5 (Goal)** – Whole word reading (the "fast way")

# 3. Fluency with Connected Text

#### Problems with Fluency in Connected Texts

#### Student reads...

- Slowly
- Monotone
- Ignoring punctuation
- With a choppy start and stop rhythm
- Without monitoring for understanding
- Without self-correcting

#### Practices that **DO NOT** Promote Fluency

- RRR (Round Robin Reading)
- Silent Reading
  - Examples of silent reading programs include:
    - SSR (Sustained Silence Reading)
    - DEAR (Drop Everything and Read)

## **Promoting Fluency:** What about speed?

## Make reading "Sound like talking"

Re-read sentences

Don't push to "read faster" Instead, focus on **"reading like a person speaks."** 

## Model Fluent Reading!

- ★ Be explicit!
  - Rate
  - Good phrasing
  - Intonation
  - Expression

Ask students, "After listening to how I read, can you tell me what I did that is like what fluent/good readers do?"



VS.



#### Fluency Strategies: Modeling Phraseology

כִּי תִשְּׂא אֶת רֹאשׁ בְּנֵי יִשְׂרָאֵל לִפְּקְדֵיהֶם וְנָתְנוּ אִישׁ כֹּפֶר נַפְשׁוֹ לַיהֹוָה בִּפְּקֹד אֹתָם וְלֹא יִהְיָה בָהֶם נֶגָף בִּפְּקֹד אֹתָם:

מוֹדָה אֲנִי לְפָנֶיךְ מֶלֶךְ חֵי וְקַיָּם שֶׁהֶחֶזַרְתִּ בִּי נִשְׁמָתִי בְּחֶמְלָה רַבָּה אֱמוּנָתֵךְ

#### Fluency in Connected Text



- ★ Scooping (versus pointing)
- ★ For TaNaCH, introduce the taamei hamikra as punctuation for phrases.

# Repeated Echo/Choral Reading



- 1. I Read: Teacher reads aloud.
- 2. We Read: Students read along with teacher.
- 3. You Read: Students read alone.

#### Repeated Reading:

- → Re-read the <u>same text</u>
- Read different passages with many of the <u>same vocabulary</u> words
- → Practice reading orally with <u>opportunity to receive</u> <u>corrections and guidance</u>.

- → Paired Reading (Chavruta) aloud
- → Listening to books read (live or recorded)
- → Readers' Theater
  - Dramatic readings
  - Read and re-read assigned part

#### Time to Read...

	Percentile Rank	Minutes of Reading Per Dav	Baseline - Words Read Per Year	Plus 10 Minutes - Words Read Per Year	Percent Increase in Word Exposure	
П	98	65	4,358,000	5,028,462	15%	
	90	21.1	1,823,000	2,686,981	47%	
	80	14.2	1,146,000	1,953,042	70%	
	70	9.6	622,000	1,269,917	104%	
	60	6.5	432,000	1,096,615	154%	
	50	4.6	282,000	895,043	217%	
	40	3.2	200,000	825,000	313%	
	30	1.8	106,000	694.889	556%	
	20	0.7	21,000	321,000	1429%	
	10	0.1	8,000	Based on reading level, ~300,000 words		
	2	0	0			

Distribution of time spent reading books outside of school, with estimated words read per year and projection of increased words per year if each child's average daily time spent reading were increased by ten minutes. Adapted from Adams (2006), with baseline data from Anderson, Wilson, & Fielding (1988).