

### Overview: Using Al to....

Analyze

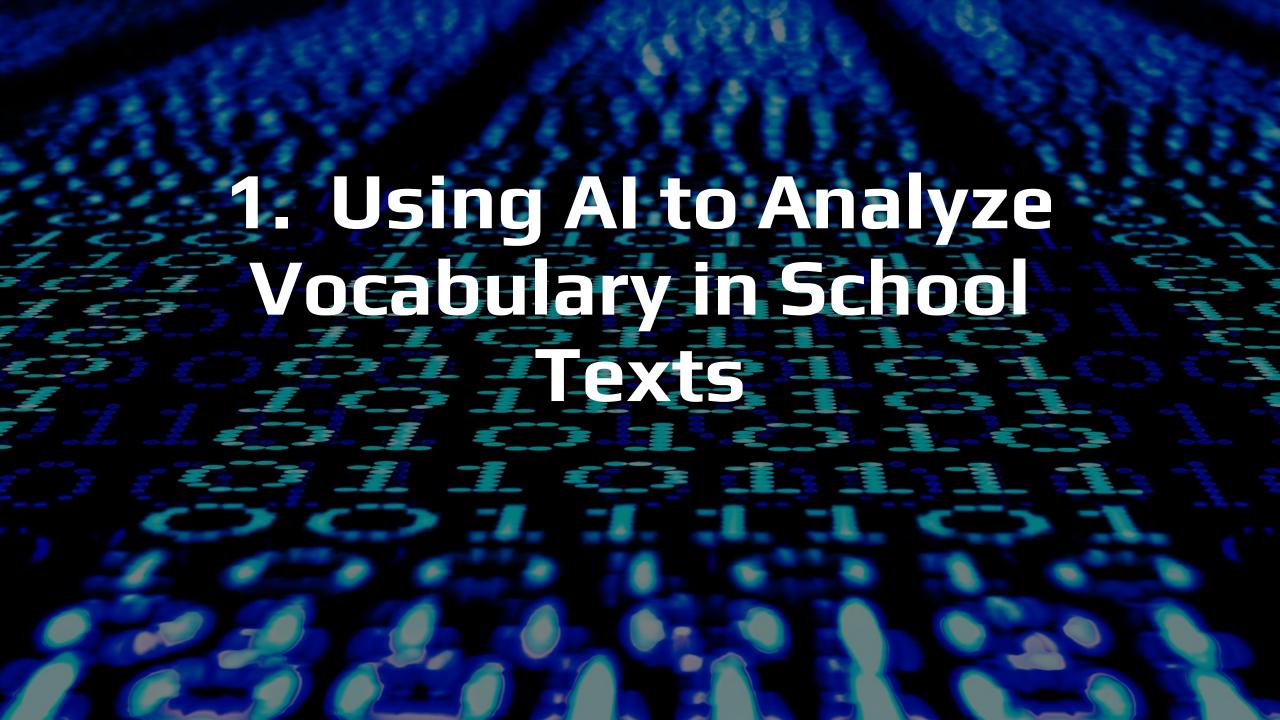
**Analyze School Texts and Tasks** 

Select

Select Specific Words & Texts

Enhance

**Enhance Explicit Vocabulary Instruction** 



## PHONEMIC AWARENESS VOCABULARY **PHONICS** FLUENCY

COMPREHENSION

### Oxford Unabridged Dictionary

•282,500 root or head words

•326,000 derivatives & phrases

•47,150 obsolete words

And this doesn't include the multiple meanings of words.

## Long-standing Approach in Selecting Words to Teach: "Cherry-picking"

slender

gallant

chimed

preparations

flickered

concluded

suggested vengo adults beating replied doubting belongs surprising laughed

slender gallant chimed preparations flickered concluded

## AI & Shifts in Opportunities for Vocabulary Learning

### Available Corpora

(Large Collections of Words from Texts)

## 1<sup>st</sup> Corpora for educators: *Thorndike's Teacher's word book, based on* 5 million words from the *Bible, Farmer's Almanac* and some children's books like *The Secret Garden*)

#### THE

#### TEACHER'S WORD BOOK

By EDWARD L. THORNDIKE

Professor of Educational Psychology, Teachers College
Columbia University

Second Edition January, 1927

FURLISHED BY Teachers College, Columbia University NEW YORK CITY

- 0			A to	Acre '			
	a	208	Tal	abuse	. 21	3b	
	Aaron	6		abyss	9 :		
	abandon	17	4a	academy	9		
	abash(ed)	4		accent	14	4b	
	abate	10	5b	accept	47	2a	* :
	abbey	9		acceptance	9		
	abbot	7		access /	II	5b	
	abdomen	5		accessory	4		
	Abe	3	1	accident	26	4a	
	abed	5		accidental	5		
	Abel	5		accommodat		5b	
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	abode	17	4a	accordance	8		
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	Abraham	14	4b	accursed	13	5a	
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	abrupt	7		accuser	5		
	absence	22	3b	accustom	26	3a	

#### Corpora of School Text Available in 2020s

- •TASA database (Zeno et al., 1995): Contains ≈17 million words from Grade 1-college texts with grade-level data
- •TextProject's TextBase: Consists of ≈ 9 million words from trade books and content area, leveled, and decodable texts. Words are distributed across 6 grade bands:

K-1: 750,00

2-3: 1,750,000

4-5: 1,650,000

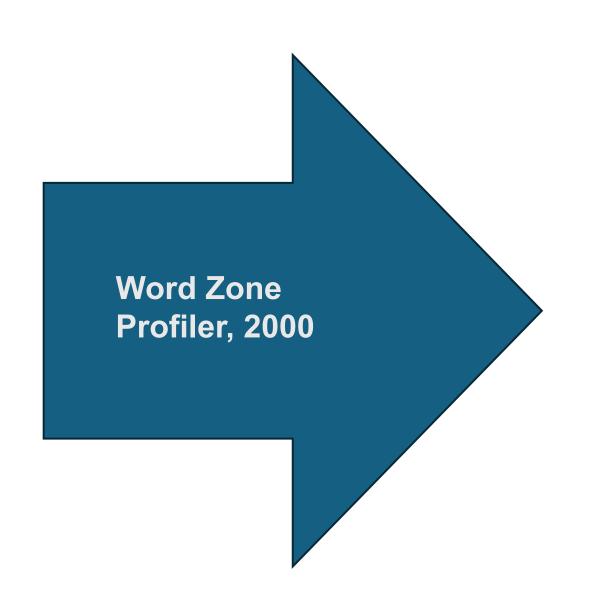
6-8: 1,765,000

9-10: 1,260,000

11-College-and-Career Reading: 1,750,000

## AI & Shifts in Opportunities for Vocabulary Learning

## Available Databases of Word Features



Word	High Fre	Decodability		
a	HF	54	1	
all	HF	3	6	
and	HF	12	3	
around		1	8	
backpack		3	8	
bark		1	6	
bat		1	2	
be	HF	2	1	
bear		2	5	
bears		1	5	
bell		1	6	
bet		1	2	
big		1	2	
bird		3	6	
blue		1	5	
book		1	7	
boy		1	7	
brown		1	7	
bug		1	2	
butterflies		1	8	
butterfly		7	8	

Word	Frequency	Word Length	UFunction	WordZone	Supercluster	Megacluster	Age of Acquis	Dispersion	Complex Moi	Number Morp	Academic Vo	Academic Vo	Family	Rime Family POS	Mean Concrete
а	54		1 24070	1	3i.1	10	2.893384	0.9982	24070	1				Article	1.46
all	3		3370	1	3g.3	10	4.239515	0.993	3370	1			all o	5 Determine	2.27
and	12		3 27594	1	27b.1	8	4.569882	0.9972	27594	1			and a	11 Conjunctio	n 1.52
around	1	(	812	2	2x.6	6	5.944635	0.9488	970.8567	9			N/A	Adverb	1.96
backpack	3	3	3 1	7	22a.10	12	5.38	0.5716					N/A	Noun	4.96
bark	1	4	4 33	4	19d.1	2	5.17	0.7438	48.0554	6			N/A	Noun	4.52
bat	1		3 16	5	34c.2	13	4.85	0.7618	36.6359	9			at a	8 Noun	5
be	2	2	2 5272	1	50a.1	14	5.11	0.9733	36725	9	633	4416	е	Verb	1.85
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bears	1		5 122	3	4e.7	11	3.58	0.7885	175.3104	18			ear e	22 Noun	4.88
bell	1	4	4 58	4	19b.2	2	3.89	0.8452	69	3			ell e	37 Noun	4.96
bet	1	(	3 17	5	42c.4	4	7	0.4367	19	3			et e	36 Verb	3.1
big	1	(	517	2	3a.3	10	2.89	0.8135	598.5284	6			igi	73 Adjective	3.66
bird	3	4	4 121	3	4j.1	11	3.52	0.7461	222.457	7			ird er	N/A Noun	5
blue	1	4	162	3	58a.1	10	3.53	0.856					ue u	85 Adjective	3.76
book	1		290	3	15c.1	13	3.68	0.9521	480.2457	11			ooku	32 Noun	4.9
boy	1		292	3	9c.1	5	3.67	0.7393	513.7697	7			oy oi	86 Noun	4.76
brown	1		128	3	58a.1	10	4.196887	0.8545					ow ow	7 Name	4.48
bug	1		13	5	4k.1	11	3.79	0.5543		5			ugU	N/A Noun	5
butterflies	1			6	4k.1	11	3.67	0.6488					N/A	N/A Noun	4.93
				6	4k.1	11	3.67	0.7162					N/A	N/A Noun	4.93



ord	Freq_HAL	AoA_Kuper	AoA_LWV	AoA_Glasgow	Freqtraj_TASA	Cumfreq_TASA	DPoS_Brys	NLett	OLD20	OLD20F	Orth_N	Orth_N_Freq	Orth_N_Freq_0	Orth_N_Freq_G_Mea	orth_
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ars	9.031				-0.97922601	2.735553143	Noun	5	1.1	7.727	20	7.5	2	10.9	)
t	10.306	7	6.78685054		-2.24244546	1.662282169	Verb	3	1	10.158	21	10	9	12.2	2
	12.093	2.89	2.83 563		-1.50526193	5.736890943	Adjective	3	1.1	8.74	19	8.5	0	)	
d	9.856	3.52	3.72	2.097	-1.35181422	3.957040527	Noun	. 4	1.75	8.476	. 5	6.6	_ 0	)	
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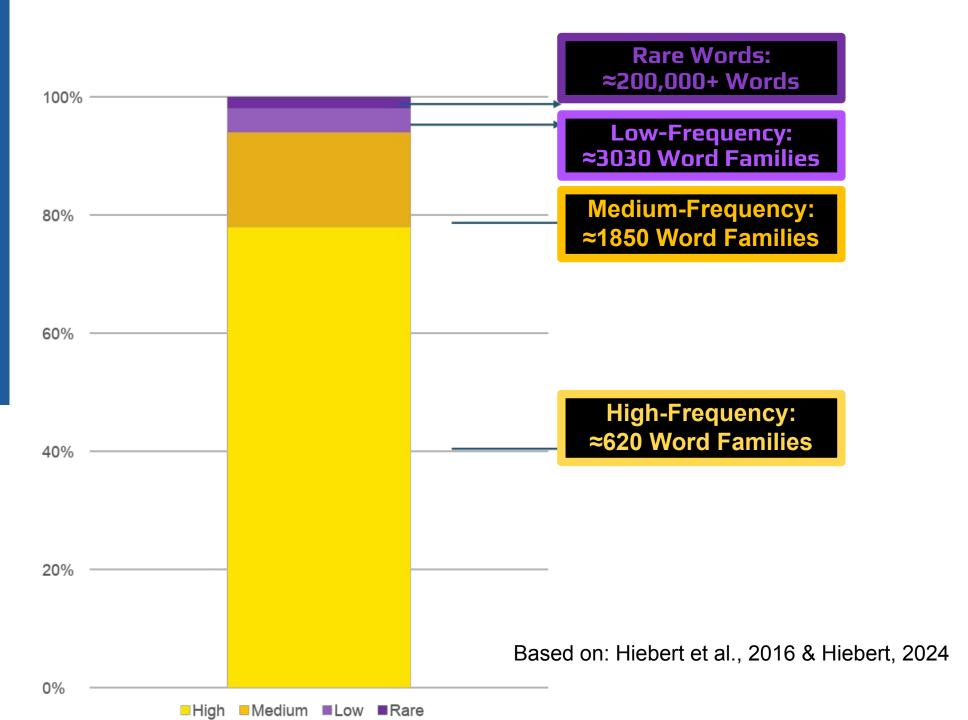
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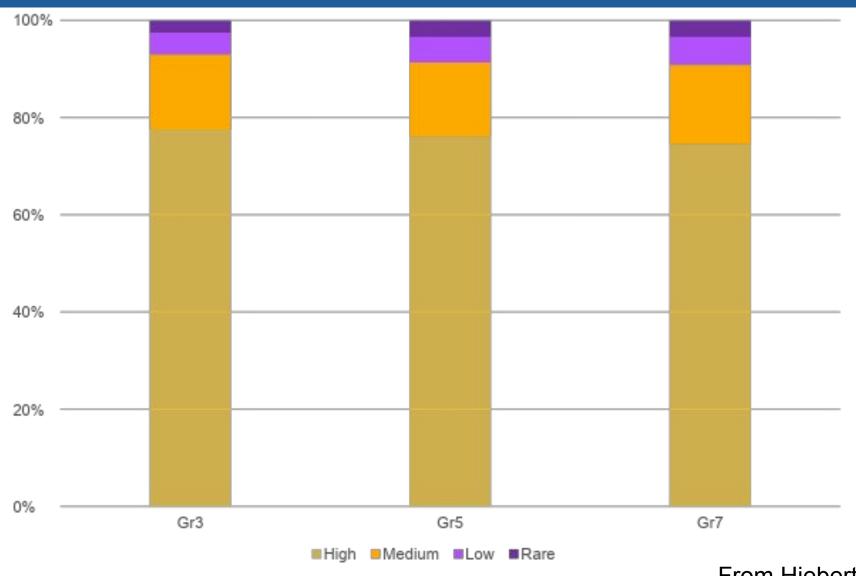
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# Word Distribution in School Texts

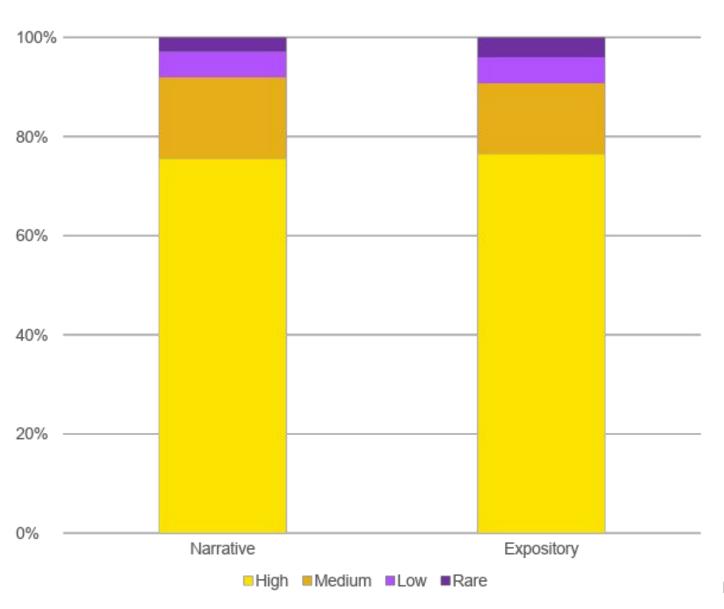


### Word Distribution by Grade Levels

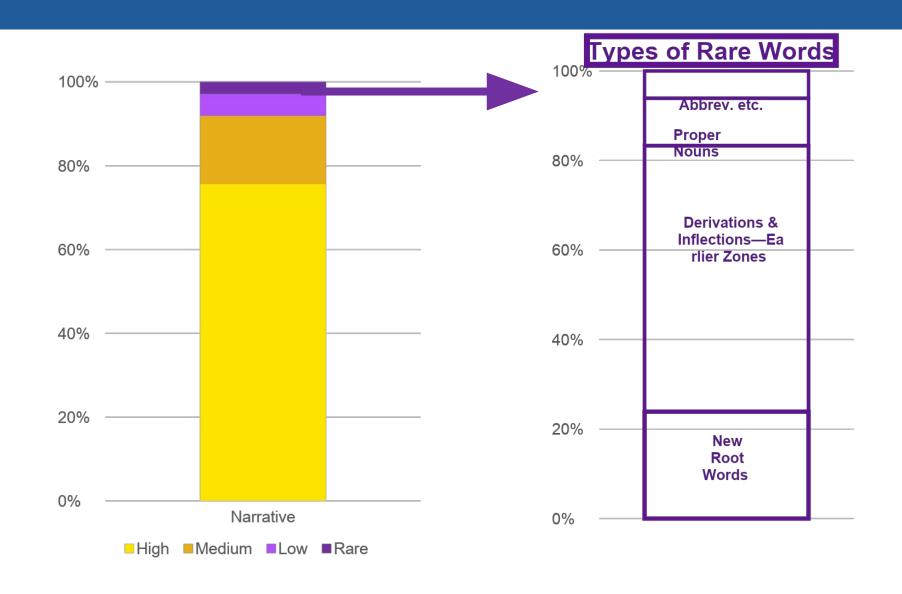


From Hiebert et al. 2024

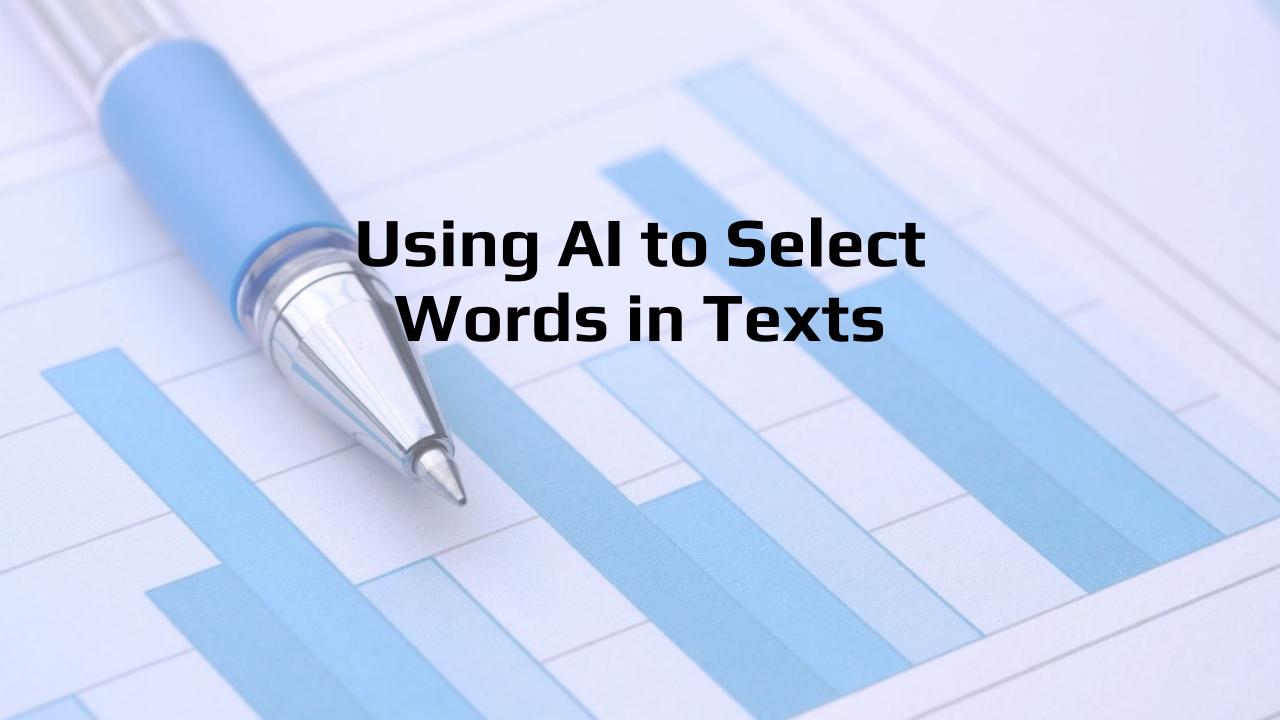
#### Word Distribution by Genre (Gr.5)



#### Word Distribution: Types of Rare Words (Narrative, Gr.5)

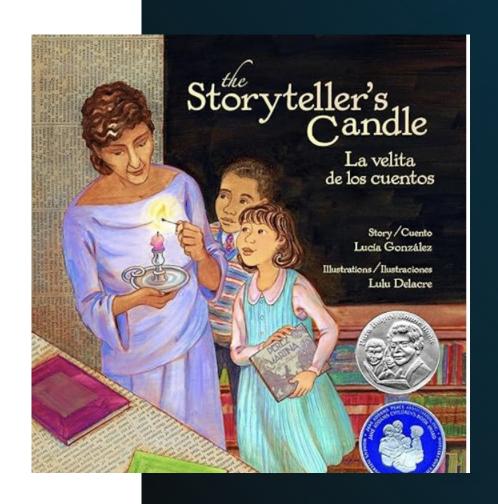






## Words chosen from *The* Storyteller's Candle:

- •slender
- •gallant
- •chimed
- preparations
- •flickered
- concluded



## Support from AI: Questions & Specifications

FH: Claude, I'm a third-grade teacher. Many of my students are not at the level of vocabulary required for strong comprehension. I'm working with a story entitled The Storyteller's Candle. The story is about a librarian creating a celebration for an immigrant community on an important holiday. I've picked out some of the words in the story that may be challenging for my students.

Can you help me in identifying which of these words are ones that may be challenging for students but are also words that will extend beyond third grade and support their reading in the middle grades and beyond: announcement, parade, chimed, characters, costumes, applause, gallant, fiesta, preparations, event, rehearsed, donations, celebrated, decorations. lalso want to help my students' background knowledge on the topic of what is part of a performance like a play.

Let me help analyze these words from multiple angles - their long-term academic value, their role in building knowledge about performances, and their importance to the story itself.

First, let's look at the publisher's selected words:

- "slender" Limited academic utility, mainly descriptive
- "gallant" Literary word but limited modern use
- "chimed" Specific to sound, limited academic use
- "preparations" ✓ HIGH VALUE used across subjects and contexts
- "flickered" Specific to light/movement, limited academic use
- "concluded" ✓ HIGH VALUE important for academic writing and reading

Now, from your additional words, here are the most valuable ones for long-term academic success:

- 1. "announcement" ✓ HIGH VALUE formal communication across contexts
- 2. "event" ✓ HIGH VALUE used across all subjects
- 3. "preparations" ✓ HIGH VALUE (overlaps with publisher list)
- 4. "celebrated" ✓ HIGH VALUE cultural and historical contexts
- 5. "donations" ✓ HIGH VALUE civic and social studies contexts

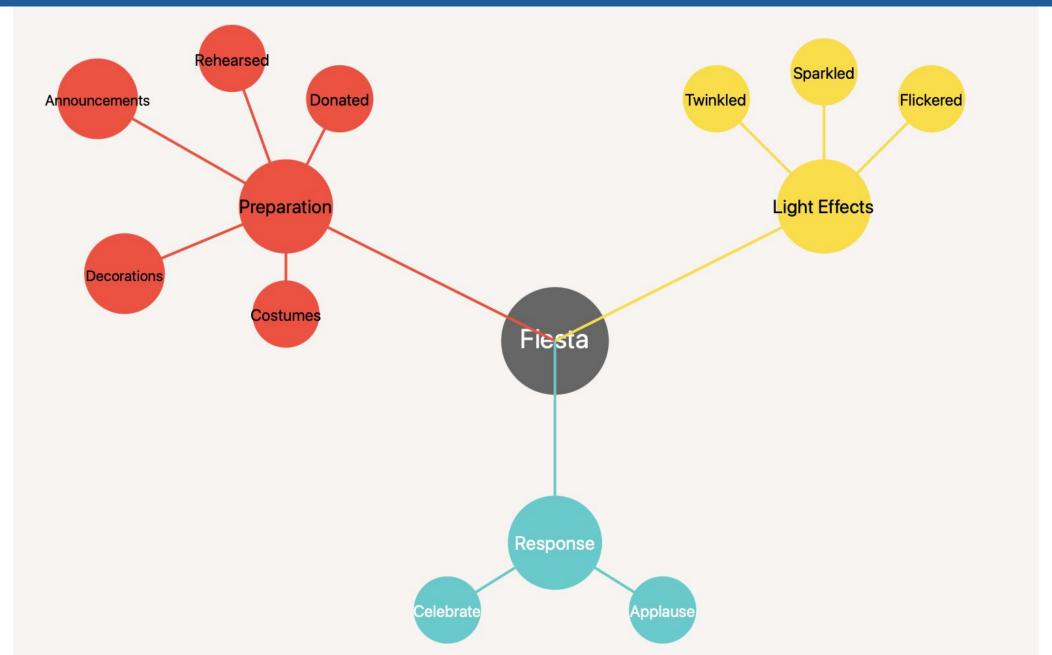
For building knowledge about performances, these words form a crucial conceptual cluster:

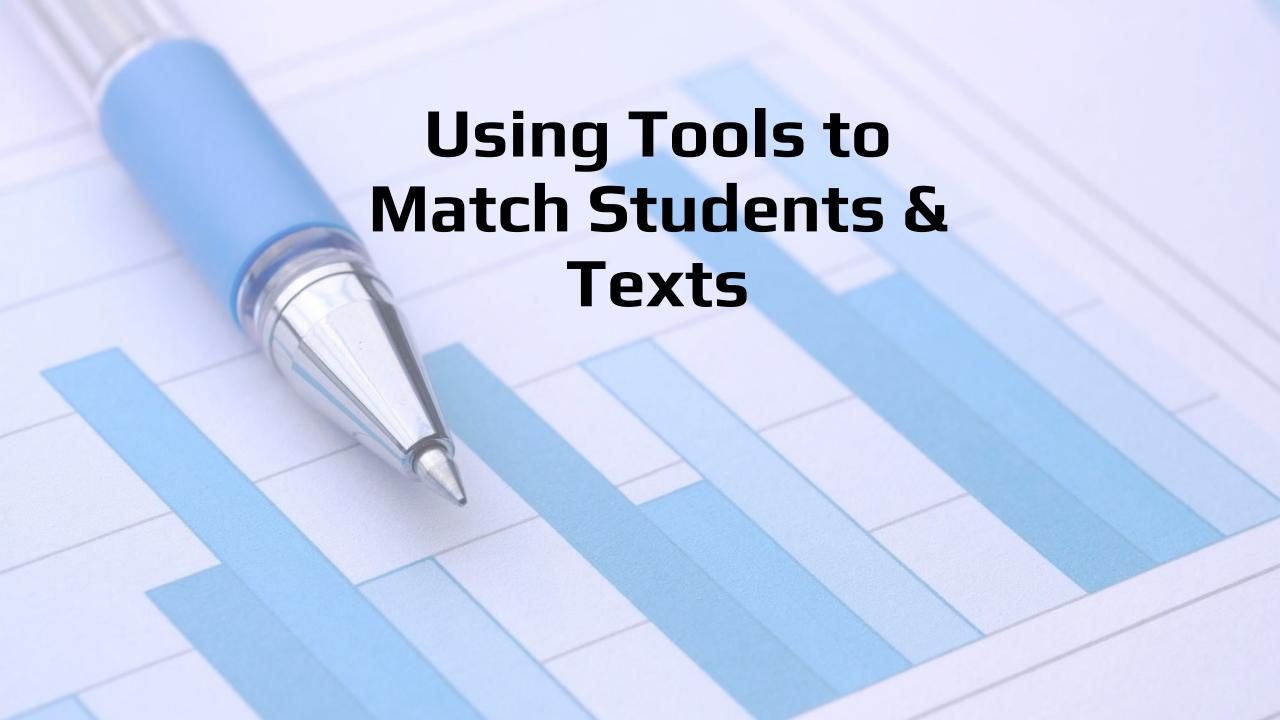
- 1. "rehearsed" Understanding performance preparation
- 2. "characters" Understanding story elements and roles
- 3. "costumes" Understanding visual representation
- 4. "applause" Understanding audience participation
- 5. "decorations" Understanding setting creation

Cultural celebration vocabulary that builds background knowledge:

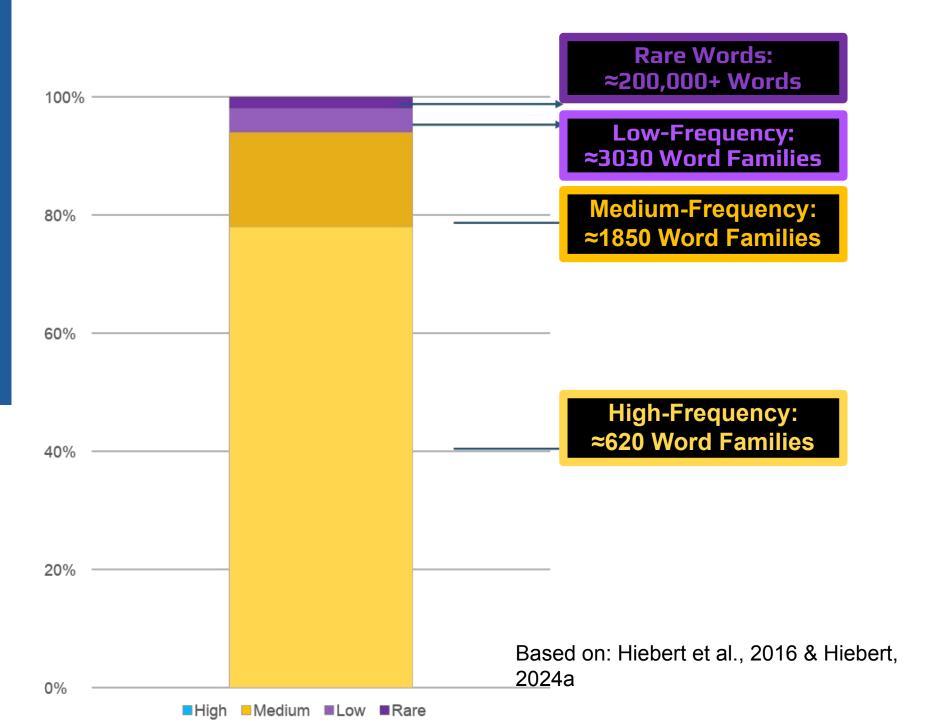
- 1. "fiesta" Understanding cultural celebrations
- 2. "celebrated" Understanding commemoration
- 3. "event" Understanding organized gatherings

### Al's Graphic Representation of the Vocabulary

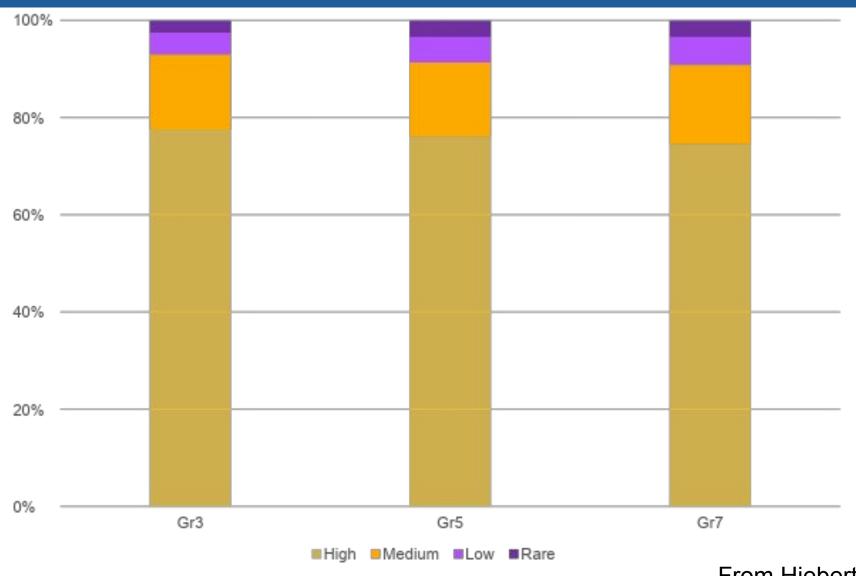




# Word Distribution in School Texts

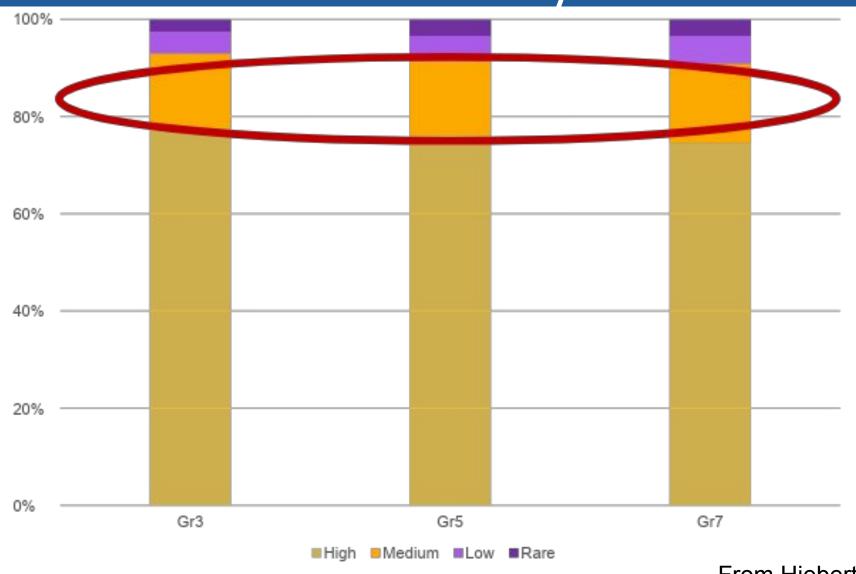


### Word Distribution by Grade Levels



From Hiebert et al. 2024

## Medium-Frequency Words are Critical for Automaticity



## Increasing Student Automaticity: TopicReads

Table 1. TopicReads Content & Benchmarks

Level	TopicReads Content	Student Performance on TopicReads Benchmark
А	500 most frequently used words + single-syllable words with regular short and long vowel patterns	Reading less than 95 WCPM
В	500 most frequently used words + single-syllable words with regular short, long, and r-controlled vowel patterns	Reading from 96 to 110 WCPM
С	1,000 most frequently used words + all vowel patterns in single-sylla- ble words	Reading from 111 to 125 WCPM
D	1,000 most frequently used words + 2-syllable words (inflected end- ings and compound words)	Reading from 126 to 135 WCPM
E	2,500 most frequently used words + 2-syllable words	Reading from 136 to 145 WCPM
F	2,500 most frequently used words + 2- and 3-syllable words	Reading from 146 to 155 WCPM

from TopicReads For Middle School: Instructor Guide. https://textproject.org/wp-con tent/uploads/2023/02/TopicR eads-MiddleSchool-Instructor Guide.pdf; Adapted from Hasbrouck & Tindal, 2017



LevelD

# TopicReads For Middle School: Instructor Guide

by Efrieda H. Hiebert

### FLOODS

Floods happen when normally dry areas are covered by water.

There are several kinds of floods. Coastal floods occur near the coasts of lakes and oceans. High water from storms can cause this kind of flooding. The storm creates a storm surge, a high wall of water that surges over the land and floods it.

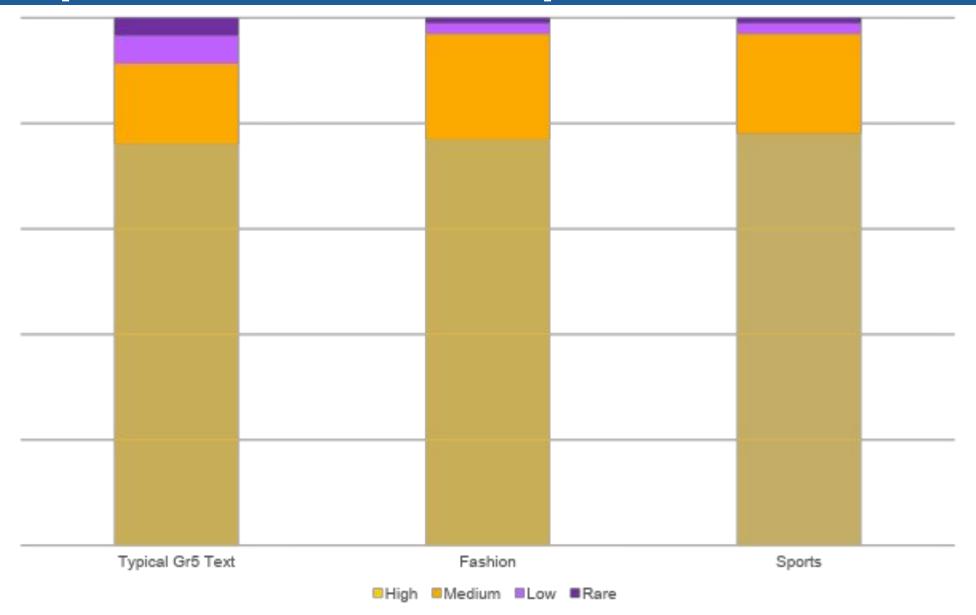
Floods can also occur near rivers. A river can flood from heavy rain or snow melting. Water flows into the river and over its banks. Land around the river can sometimes flood for hundreds of miles. One very dangerous kind of flood is a flash flood, which happens after intense rainfall. Flash floods happen so quickly that people cannot always escape to higher ground.

#### **Building Comprehension**

1. What can cause a coastal flood?	
a. high water from storms	
b. water flowing over a river's banks	
c. melting snow	
d. a serious flood at a riverclouds at sea	
2. Why are flash floods dangerous?	

From Hiebert, 2023

## Supporting Automaticity in Recognizing Vocabulary: Open-Access Texts (TopicReads, Level D)





#### Stock Car Racing

When World War II ended, U.S. carmakers turned their attention from tanks to cars. They made last, powerful cars, and young men loved racing them.

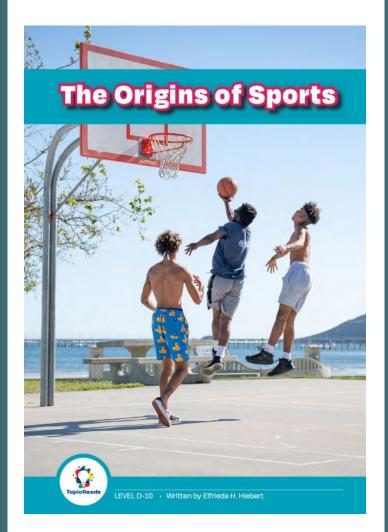
People in different parts of the country raced different kinds of cars. In the South, people raced stock cars-cars from a car dealer. In 1946, a racer marted Bill Prince engagistics stock car racers into an association called the National Association for Stock Car Auto Bacing, or NASCAR. Members raced stock cars on our Bracks.

From the titre it was organized, NASCAB grew into a huge sport and a high business. Today, even though almost all the drivers and tunns are in the South, million of this around the country wanch NASCAB drivers zore. These cars don't come from the dealer anymore. Instead, they re-draigned for each thing aging as that a possible.

Key Notes:

Q







#### Double Dutch Jump Rope

Jump rope made its way across the ocean with Europeans who settled on the east coast of North America. Although many children in Europe jumped rope, Dutch children played the game in a different

Two children held the ends of two ropes and turned them in different directions. Another child stood within the wiring rupes, jumping over and under them. When English children saw jump rope played this way, they named it double Darks.

The game was always common in New York City, but in the 1950's, a double Dutch craze began. Children said rhymes as they jumped to the difficult beat of the rwitting topes.

In the 1970s, the game became a sport, with teams saying rhymes as they competed to show their speed and skill. Today, double Dutch jumpers compete in meets around the world.

#### Key Notes:

How is double Dutch jump rope different from other kinds of rope jumping?

0



#### Snowboarding

In the snowy hills of Michigan in 1965, a father made a toy for his daughter. He put together two skis with a rope at the tip so the rider could hold the toy as it went down hills. He daughter's fetends loved it, so the Michigan man mode more. By 1966, more than half a million of these toys were sold.

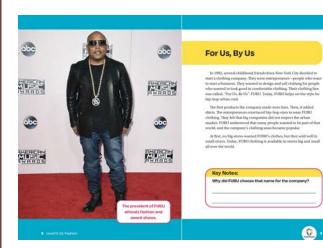
The new sport got the name univibounding, and soon many people were making snowboards. One was a young man who rode trays down the fulls at his school. The young man started a business called Winterstick to make his snowboards. Unlike the ones first mode in Michigan, these snowboards did not have a rope. Instead, snowboarders used their arms for balance.

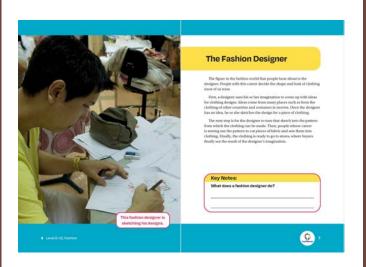
The sport has grown. At first, many ski zeras did not allow snowboarders, but not almost all do.

Key Notes:

What is snowboarding?

0









#### Where Fashion Comes From

Fushion designers get their ideas for new fashions from all over the world. In earlier centuries, for example, American designers copied the latest fashions from Paris. Today, designers find ideas in other countries like Jupan.

One example of the workholde trading of fashion ideas today is the influence of African topic on designers from other parts of the world. Designers from around the world law African cloth in their designs because they love its hold colors and patterns. Some designers have copied traditional African draped clothing, including weep skirts, and have designed weetyl task is idelineed by African style.

Another example of the trading of fashion ideas is the influence of the lapanese kinsons in the world of designers from Europe and the United States. Versions of the loose, flowing kinsons can be seen in high-fashion clothing designed today.

Key Notes: Where does fashion come from?

2



#### What is Fashion?

Fushion is a popular style of clothing. The clothing that's fashionable changes, though, Invery year, designers skeech new clothing clesigns. Stores decide which designers' clothes people might like. Then, people go out and buy what has become the latent style.

One example of how fashion catches on is the story of the T-shirt. It began its fashion as an undershirt for mes in Europe. United States soldiers sure the comfortable shirts during World War I. T shirts caught on as men's undersour in the United States.

By the 1960's, men were securing T-shirts on the outside instead of as underwear. Movie stars started wearing them, Today, many people wear T-shirts. Sometimes the shirts have sends that still about those securing them. Many fines of sports teams might wear shirts that sell which crams are those persons' favoritie.

Key Notes:

How did the T-shirt come into fashion?





### **BLIZZARDS**

Blizzards are serious winter storms with snow. In a blizzard, snow comes with strong winds of 35 miles per hour or more. The temperature is usually 20 degrees below freezing or lower. Because the wind is blowing, people can see less than a quarter of a mile. Sometimes, a blizzard is so strong that people can only see a few feet ahead. Blizzards with that kind of wind are called whiteouts.

Blizzards cause dangerous conditions. People in cars may be stranded on roads. Those who are outside may not be able to tell where they are. People can suffer frostbite. They may even die from exposure to the cold. When blizzards occur, the best advice is to stay indoors

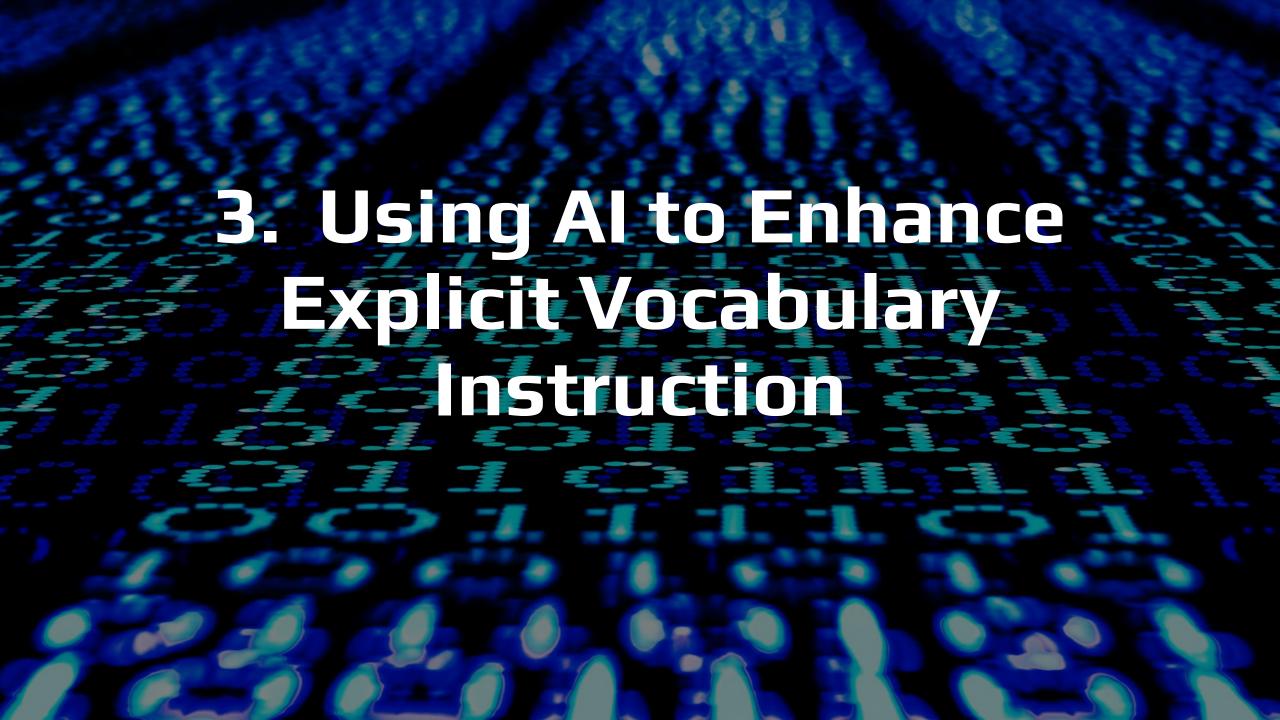


Benchmark Assessment

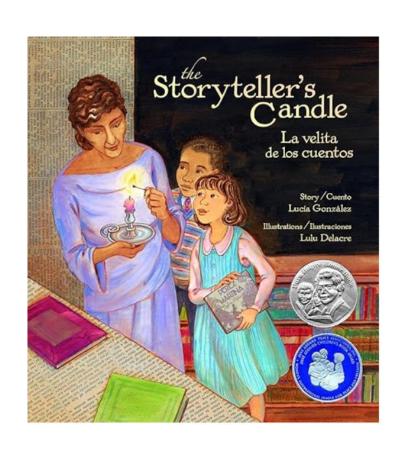
#### **Building Comprehension**

- 1. Which best tells what a blizzard is?
  - when the temperature is below 20 degrees, and the wind is blowing
  - a windy snowstorm with temperatures 20 degrees below freezing or lower
  - c. a snowy storm when winds are 20 miles an hour or more
  - d. a storm with snow that blows a quarter of a mile or more

2. What is the best advice for living through a blizzard?					
	3%				



# Additional Opportunities with Story Vocabulary (*The Storyteller's Candle*)



	Original Text (Storyteller's Candle)
announcement	2
applause	1
celebrated	1
costumes	2
decorations	1
donated	1
fiesta	2
preparations	3
rehearsed	1

# Activity 1: Generating Additional Texts with Target Vocabulary

Can you write a story of 500 words about a fiesta that includes the words rehearsed, announcements, donated, preparation, decorations, costumes, celebrate, applause. The story is for third graders who aren't the greatest readers. If you can repeat the listed words (including using morphological relatives), that would be great.



#### The Best Fiesta Ever

Maria could not wait for her school's big fiesta. For weeks, her class had rehearsed their special dance. Now they knew every step by heart.

On Thursday, Mrs. Rodriguez made her final announcement to the class: "Remember, tomorrow is our spring fiesta!" Everyone cheered at the end of the announcement.

Early on Friday morning, preparations began. Maria and her friends helped with the preparations by hanging ribbons and balloons. Next it was time to put on the costumes that the students and their families had made. Maria loved her costume, which was a beautiful red dress that sparkled when she spun around.

The gym soon filled with family and friends who had come to celebrate. Maria's heart was racing, but she remembered how much they had rehearsed. She knew they were prepared.

The music started. Maria's class danced just like they had rehearsed. When the dance ended,

the applause was so loud it made Maria's heart swell with pride.

After the performance, the fiesta continued. Families had donated food to make the party even more of a celebration. Tables were filled with these donations: tacos, rice, beans, cookies, and cakes. The decorations seemed to shine even brighter as everyone enjoyed the feast.

"This is the best fiesta ever!" Maria thought as she looked at all the happy faces, the beautiful decorations, and her friends in their costumes.

At the end of the party, Mrs. Rodriguez announced: "Thank you to everyone who helped make this fiesta so special. Your donations, preparation, and hard work made this a day we will never forget!"

As Maria left the fiesta, she knew she would always remember how it felt to dance in her shiny costume, see all the pretty decorations, and hear that wonderful applause. This had been the best celebration ever!

The Best Fiesta Ev



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FH

Can you write a story about third graders putting on a play? Include the wors applause, rehearsed, decorations, announcements, and costumes--repeating these words or morphological famliy members (e.g., applause, applaud; rehearse, rehearsal) at least two times each. The text is intended for third grade students who are not the greatest readers. Can you make the text at least 450 words and make it engaging so that an unmotivated student will want to reread it.



### The Dancing Zoo Animals

Today was an exciting day for me at school. Our third-grade class put on the play "The Dancing Zoo Animals." For two weeks, we had daily rehearsals to learn our parts for the play. Mrs. Cooper, our teacher, made an announcement before the play began: "Remember, we've rehearsed this many times. You are all well prepared for the performance!"

But all of us were too busy looking at one another's costumes to be worried. Jake had the part of an elephant and his costume was gray with big floppy ears. My penguin costume was black with a very big white bowtie. Sofie's costume was the tallest of all. That's because she was a giraffe.

We had all helped make the decorations for the play. The stage on the gym was filled with paper trees and big boxes. We had painted them to look like rocks. We had also strung up lights which made the decorations sparkle. The Dancing Zoo Anima

Finally, the gym was full of our families and friends. The music started. We all danced out onto the stage just like we had practiced in rehearsals.

Jake's elephant trunk made everyone laugh as he pretended to spray water at the audience. When Sofia the giraffe pretended to eat leaves from the paper trees, all the visitors laughed again. My favorite part was when I and the other four penguins waddled in a line and then did a slide move that we had rehearsed.

At the end of the show, everyone in the audience applauded. Some people in the audience even stood up to give us more applause! Mrs. Cooper made one last announcement: "You were great in rehearsals but your performance this afternoon was even greater."

After the show, we had cookies and juice in our classroom. We were getting hot inside our costumes. But no one wanted to take off their costumes. We were enjoying the celebration of our success!



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# Repetition of Vocabulary in Texts

	Original Text (Storyteller's Candle)	Best Fiesta	Dancing Animals	Total Repetitions
announcement	2	3	2	7
applause	1	2	2	5
celebrated	1	3	1	5
costumes	2	4	6	12
decorations	1	3	2	6
donated	1	3	1	5
fiesta	2	7		9
preparations	3	5	3	11
rehearsed	1	3	5	9

## Activity 2: Generating Semantic Grids

Can you make a semantic grid with the words flickering, sparkled, twinkle and 5 other words that have varied degrees of intensity in the same semantic category. Can you ensure that 2 of the new words are ones that students who are not great third-grade readers can read?

Can you list the words with the most intense (blaze) at the top of the list and make the words in different colors (against a black background)--the most intense word in red.

blaze

flash

sparkled

gleam

flickering

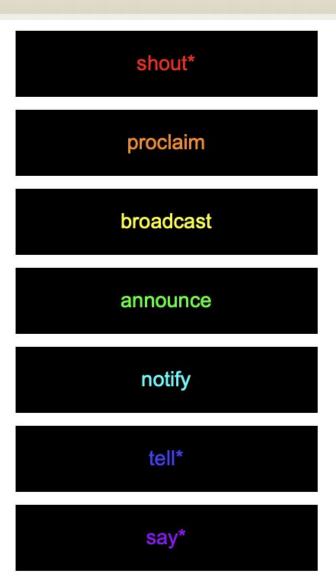
shine

twinkle

glow

FH)

Now can you make a semantic grid for words in the semantic family of the word announce. I want 7 words, 3 of which are ones that struggling third-grade readers can read.



# Activity 2b: Adding Morphological Families to Semantic Families



Can you make a mind map of all of the morphological relatives for the word announcements.

### announce

### **Verb Forms**

announces announced announcing

### **Noun Forms**

announcers
announcement
announcements

### **Re- Forms**

reannounced reannouncing reannouncement

### **Pre-Forms**

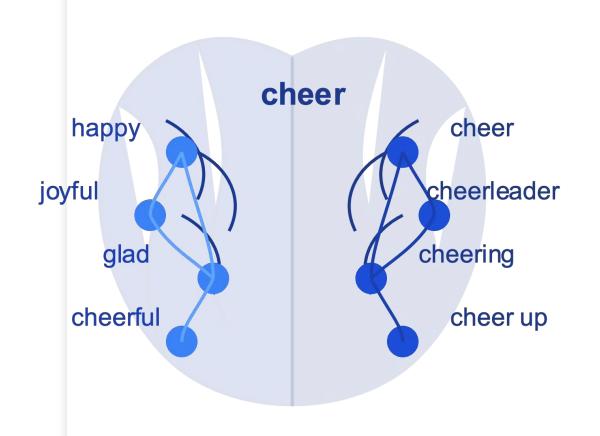
preannounce preannounced preannouncing preannouncement

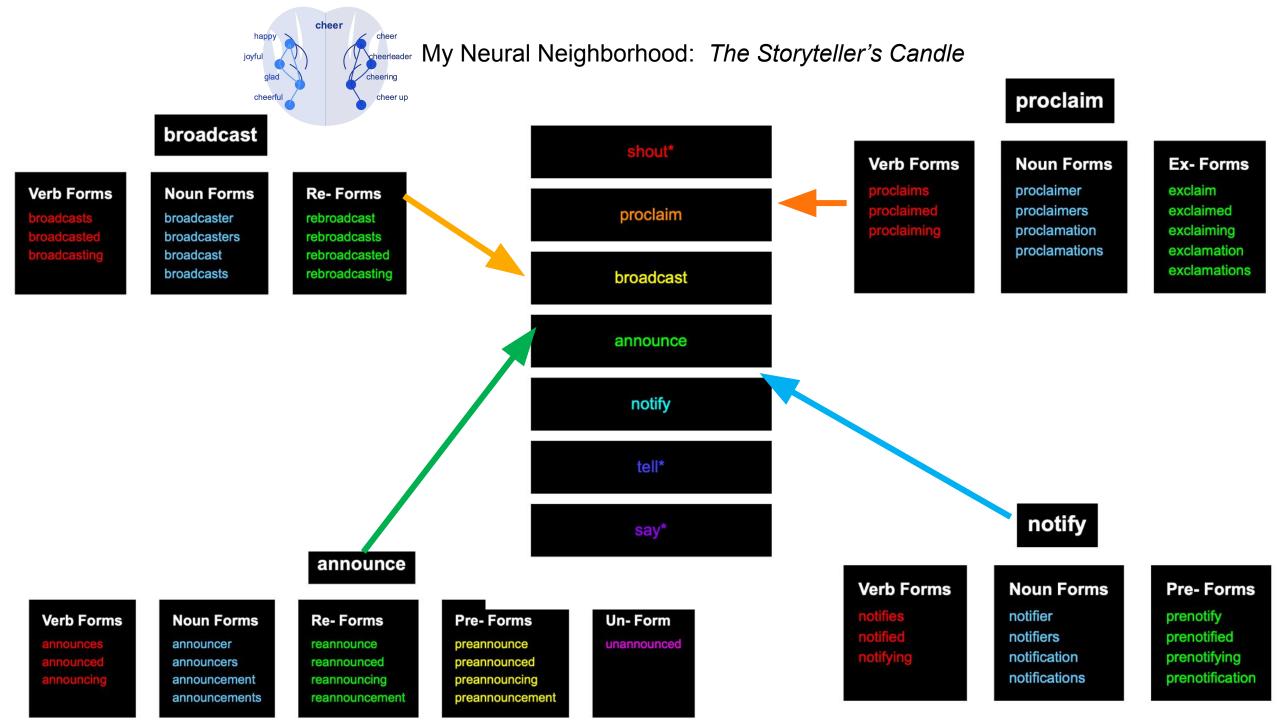
### **Un-Form**

unannounced



# My Neural Neighborhood S





# Activity 3: Assessing Students' Vocabulary and **Automaticity**

### **The School Play**

The school play was coming soon! Every day after lunch, the
(crew, kids, staff) in Mrs. Smith's class rehearsed their
(books, songs, lines). Tom's dad donated snacks for
(everyone, nowhere, outside), and Zoe's mom helped make
(not, the, far) decorations for the stage. When (new, old, the)
big night came, all the (students, writers, farmers) wore their
costumes.
The principal (took, made, kept) an announcement
before the show (walked, jumped, started): "Welcome to our
winter (test, play, game)!" The children acted out (your,
some, their) parts perfectly. At the end, (one, the, few) crowd
gave them loud applause.
(Since, After, Until) the show, the whole class
(searched, wandered, celebrated) with cookies and juice.
Everyone agreed it (felt, was, ran) the best play ever!

# Target Vocabulary

fiesta applause donated rehearsed celebrated costumes decorations announcement

- Tom \_\_\_\_\_\_ his old books to kids who needed them at school.
- 2. The class \_\_\_\_\_\_ their songs every day until they knew all the words.
- 3. At the \_\_\_\_\_, there were fun games and lots of good food to eat.
- 4. The crowd gave loud \_\_\_\_\_\_ when the little dog did its trick.
- We put up birthday \_\_\_\_\_\_ like balloons and streamers all over the house.
- 6. The teacher made an \_\_\_\_\_\_ about the field trip next week.
- The kids put on their Halloween \_\_\_\_\_\_ and went to get candy.
- 8. We \_\_\_\_\_ with cake and ice cream when my team won the game.

# Morphologica I Family Members

Fill in the blank with the correct word.

Words to choose from:

announced	announcement	announced
announces	announcer	шnannounced

- 1. The baseball \_\_\_\_\_ spoke clearly into the microphone.
- 2. The principal made an \_\_\_\_\_ about the pizza party.
- 3. My cousin made an \_\_\_\_\_ visit with her πew puppy.
- 4. The teacher \_\_\_\_\_ the winner of the art contest every Friday.
- Mom \_\_\_\_\_ that we could get ice cream after dinner.
- The student is \_\_\_\_\_ the weekly lunch menu over the speakers.

### Semanti c Family Member s

Fill in the blank with the best word.

Words to choose from:

broadcast	notify	announce	shout
proclaim	say	tell	

- The TV station will \_\_\_\_\_\_ the football game live across the country.
- 2. The school will \_\_\_\_\_ parents by email if there is a snow day.
- 3. The principal will \_\_\_\_\_\_ important news over the speakers about the fire drill.
- 4. The coach had to \_\_\_\_\_ instructions to the players during the noisy game.
- 5. The king will \_\_\_\_\_\_ his daughter as the new ruler of the kingdom.
- 6. Can you \_\_\_\_\_ your name clearly when it's your turn?
- I need to you something important about the class party.

# Potential **Problems:** Al for Vocabular Instruction

Generating text with consideration of vocabulary requires clarity of curriculum and developmental progression.

"The lowest hanging fruit": An even larger world of worksheets; fewer opportunities to deal with complex texts.

Knowledge is the commodity of the digital age. Fatuous texts and worksheets can be a barrier to knowledge acquisition as well as a deterrent to motivation and learning.

### Al Generated

### **Snow Art**

Snow falls soft and white. It lands on trees and roofs. Look at the snowflakes on your glove. Each one is a little star!

You can cut paper to make snowflakes. Fold the paper and snip small bits. Open it to see your star shape!

You can also draw a snowy day. Use a white crayon on blue paper. Add a big snowman. Does your snowman wear a hat? Snow is cold, but your art is warm and fun!



### AI Assisted

Level 2: Art in Weath



#### The Patterns of Snowflakes

If you live in or visit a place where it snows, you can try to catch a snowflake. You need to do this very fast because snowflakes melt quickly from the heat of your hand.

Snowflakes are too little for you to see their patterns with just your eyes. You need a big glass lens to see the snowflakes. Through the lens, you will see that each snowflake has its own pattern. Some look like the lace on a party dress. Some snowflakes have thin lines that branch out like trees. No two snowflakes look the same, but they all have six sides.

#### Make Your Own Snowflakes

- Take a sheet of white paper and fold it in half and then fold it in half two times more.
- Now cut small shapes along the sides.
- When you open your paper, you'll find a snowflake with six sides.

2

### **Weather in Art**





**Cloud Pictures in the Sky** 

Look up at the clouds floating in the bright blue sky. Sometimes clouds seem to make a picture as they float by. A cloud might make you think of a rabbit with long ears, a fish with fins moving back and forth, or a dragon with wings spread wide. Even tiny clouds can look like something special, like boats sailing across the blue sea. Huge clouds can look like giant ice cream cones, reaching to the top of the sky.

#### Make Your Own Cloud Art



**Rain Patterns** 

Look out a window when it rains. Drops of rain fall on the window. Each drop starts small and round. Some drops seem to race each other down the glass. When they meet, the drops join and slide down the window together.

When you are outside in the rain, watch as a puddle of water forms. When a drop of rain hits the puddle, it makes rings in the water. The rings get big and fade away. More drops make more rings and the puddle gets bigger.

#### Make Your Own Rain Art

#### Look at the Wind!

Wind is air that moves. When air flows fast or slow, we call it wind. This moving air can push and pull things, like the leaves and branches on trees. The wind can send leaves falling from trees. Wind can make the tops of tall trees bend left and right. When the wind gets strong, flags can snap in the air.



#### **Light Makes Rainbows**

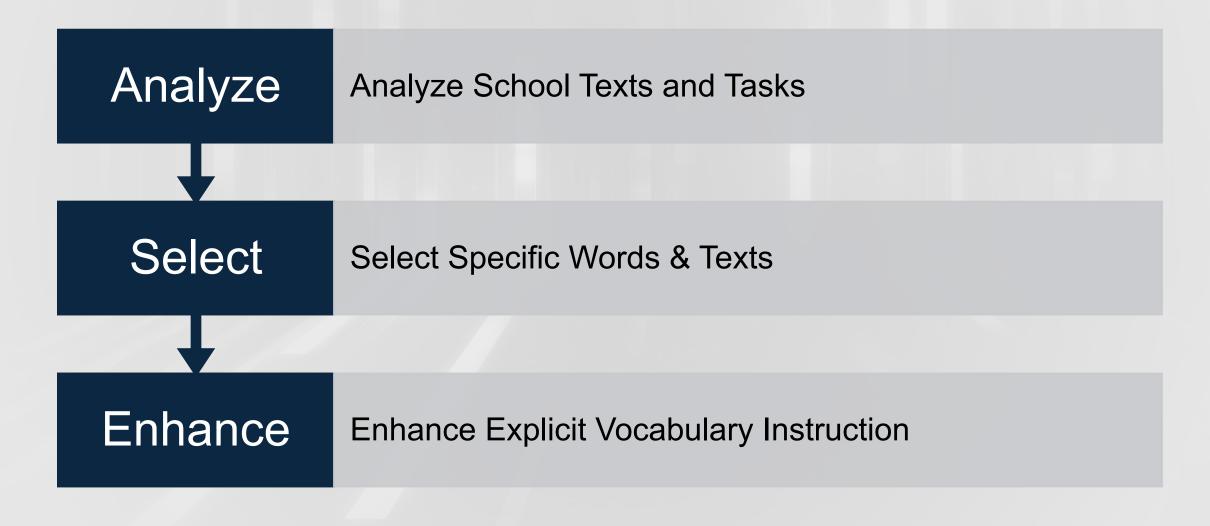
Watch what happens when the sun shines through a glass of water. All the colors of the rainbow seem to dance on the wall. You can see red, orange, yellow, green, blue, and

in the water as you spray plants with a hose. When it rains, water drops in the sky can split sunlight into a big rainbow. Even the light through your window can make tiny rainbows on the floor when it shines through a vase or a glass cup.

Make Your Own Wind Art

On a hot day, you might see spots of color

# Summary: Using Al to....





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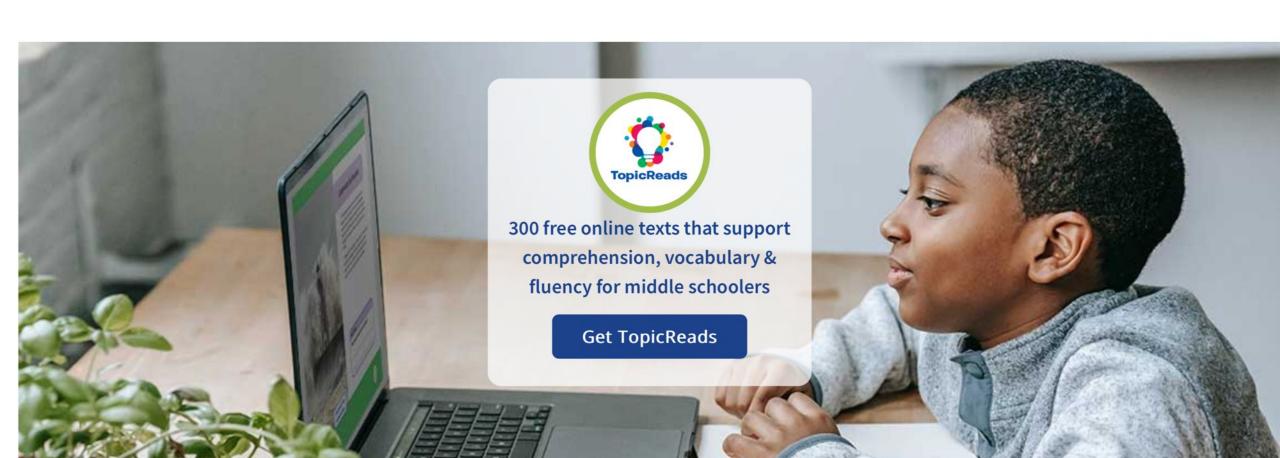
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RESEARCH V

FRANKLY FREDDY BLOG

**ABOUT** 



# More to Read and/or Hear (for free!):

- Hiebert, E. H. (2020). The core vocabulary: The foundation of proficient comprehension. *The Reading Teacher, 73*(6), 757-768.
- Hiebert, E. H. (2024). Unpacking automaticity: Scaffolded texts and comprehension. *Journal of Adolescent & Adult Literacy*.
- Revolutionizing Vocabulary Learning: Al's Contributions to Word Selection in Education <a href="https://textproject.org/vocabulary-learning-and-ai/">https://textproject.org/vocabulary-learning-and-ai/</a>
- The Science of Word Zones: How Big Data is Building Better Readers <a href="https://textproject.org/word-zones-science/">https://textproject.org/word-zones-science/</a>
- Using Story Structure for Comprehension and Enhancing Vocabulary <a href="https://textproject.org/story-structure-and-vocabulary/">https://textproject.org/story-structure-and-vocabulary/</a>
- Terminology, Texts and Teachers in an Al World: Possibilities and Problems https://textproject.org/terminology-texts-teachers-ai/

# Sincerest thank you for your time & commitment!

