Word Ladders and Word Study





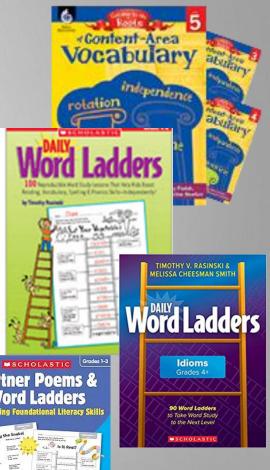
Timothy Rasinski, Ph.D. Kent State University

trasinsk@kent.edu

@timrasinski1

www.timrasinski.com

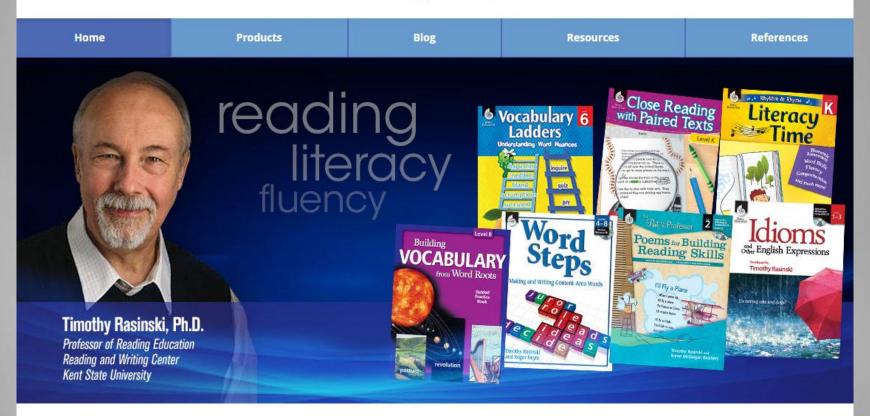






www.timrasinski.com

Timothy Rasinski



Biography

Timothy Rasinski is a professor of literacy education at Kent State University and director of its award winning reading clinic. He has written over 200 articles and has authored, co-authored or edited over 50 books or curriculum programs on reading education. He's

Timothy Rasinski

Home Products Blog Resources

Professional Development

- Study Guide for Building Vocabulary with Greek and Latin Roots, (2nd Edition)-Tim Rasinski, Nancy Padak, Evangeline Newton
- Tim Rasinski's Handouts for Professional Development: From Phonics to Fluency to Proficient Reading
 Building Vocabulary Professional Development Video
- Tools to Teach Academic Vocabulary Webinar

Research

- Building Vocabulary Pilot Research Report
- The Latin-Greek Connection Building Vocabulary through Morphological Study
- Building Vocabulary White Paper
- Building Vocabulary Frequently Asked Questions

Articles

- A Little Latin and a Whole Lot of English
- Building Vocabulary in Summer School
- The Art and Science of Teaching Reading
- · Fast Start The Effects of Fast Start Reading
- Fast Start Getting Parents and Children Off to a Strong Start in Reading
- Fast Start A 3-Year Study of a School-Based Parental Involvement Program in Early Literacy

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Word Ladders for the Win

By Alaina Weatherford

I teach ELA in a small, rural K-8 building in Illinois in a departmentalized setting with a partner teacher who teaches math, science, and social studies. We switch two grades between us throughout the day. The last two years we taught third and fourth grades. This year, due to a retirement, we moved up to teach fourth and fifth grades. Therefore, I have been teaching my current fifth graders for three consecutive years.

When these students were in third grade, I decided to begin using Dr. Rasinski's word ladders. I wanted a quick and simple, but effective way to incorporate vocabulary instruction, and most importantly, I wanted it to be fun. We completed a word ladder every day and eventually finished our first book, *Daily Word Ladders: Grades 2-3*. The students begged me for more, so we moved into *Daily Word Ladders: Grades 4-6*. We ended up

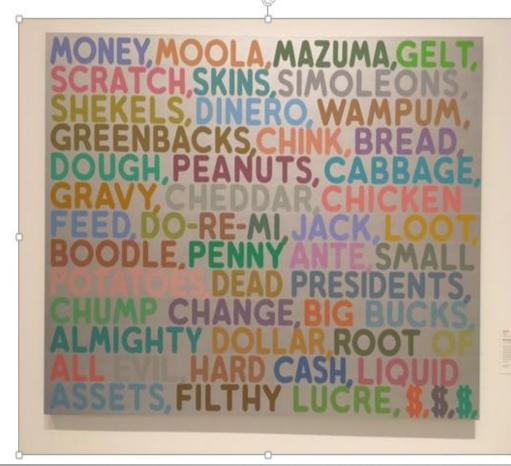
finishing that book in the middle of their fourth-grade y had written any more books and told the students that word ladder book. They were devastated and begged n that I searched online and found out there were in fact about. I bought *Daily Word Ladders: Idioms* and we be book.

April 2024



Word Study as Art

I recently visited the National Art Museum and Portrait Gallery in Washington DC. Interestingly, I found this piece of art titled "Money" by Mel Bochner. Bochner's work is a collection of words and phrases that refer to money. This piece of art made me think of similar works of art that could be created by students. Simply have them choose an overarching concept (e.g. "cold," friend") and have them brainstorm other words and phrases that have similar meanings. This would be a great way to have work in a thesaurus. Then, they would draw, paint, or post their collection of words in a manner similar to Bochner. Students' own works of art could be posted in the classroom and around the school, expanding students' vocabularies and art at the same time.





Shortcut To

Timrasinski.com Blog

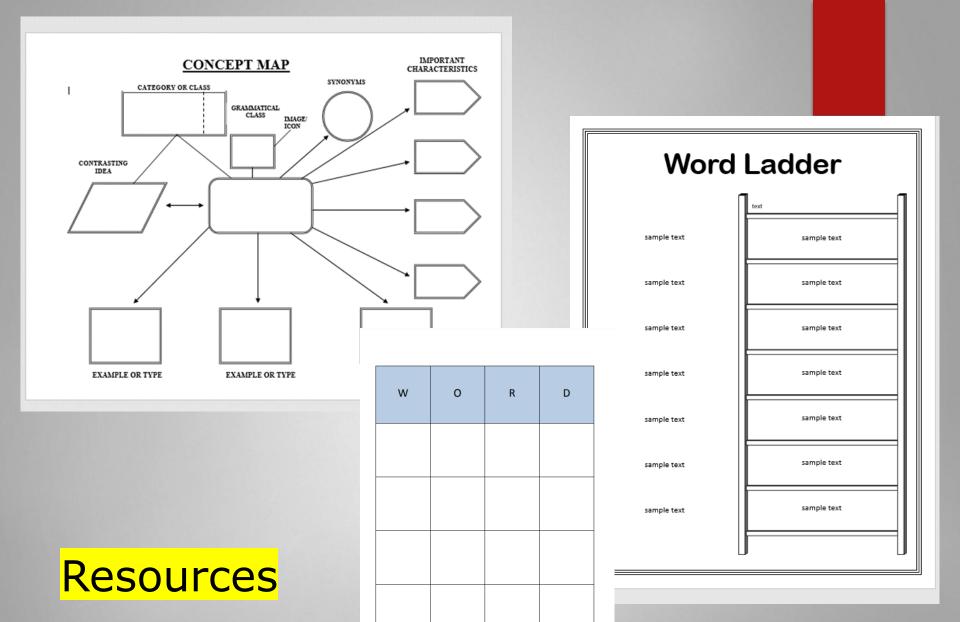
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Blog



Word Study as Art

Timrasinski.com > Blog

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Lessons Learned From My Granddaughter by Laura Robb

My granddaughter, Helena has a rare syndrome: the left and right sides of her body grow

ire shorter. Moreover, her brain development large amounts of growth and plateaus innd numbers as random squiggles, and I ia that runs in my family. Despite these ure and listening walks, and I read picture

, I resisted the temptation to tutor Helena. donated dozens of books to her teachers' classmates to have more choices when selfating books to the young resource teacher

rt, I believed that Helena would signal me est the time and energy to read with

February. A Word Ladder for Valentine's Day!

Start with the word I ove - the emotion celebrated on Valentin



CHANGE I IETTEI TO MAKE A KING OF COAT OF CIOAK WITHOUT SIEEVES.

Cape Take away 1 letter to make a hat worn by a baseball player.

Сар Change 1 letter to make a mug or container for coffee or tea.

Add 2 letters to the end to the character often associated with love Cup and who uses arrows to make people fall in love.



Cupid

Now have your students sort these words into words that might have something to do with love, and words that don't. Encourage your students to think creatively (e.g. Lovers" Lane).

For more see: Rasinski, T.: Daily Word Ladders, K-1, 1-2, 2-4. 4-6 Vocabulary Ladders, 1, 2, 3, 4, 5, 6

Email me at trasinsk@kent.edu

Monday Morphology (Word Roots)

Wednesday Word Ladder

► Fluency Friday

SOR

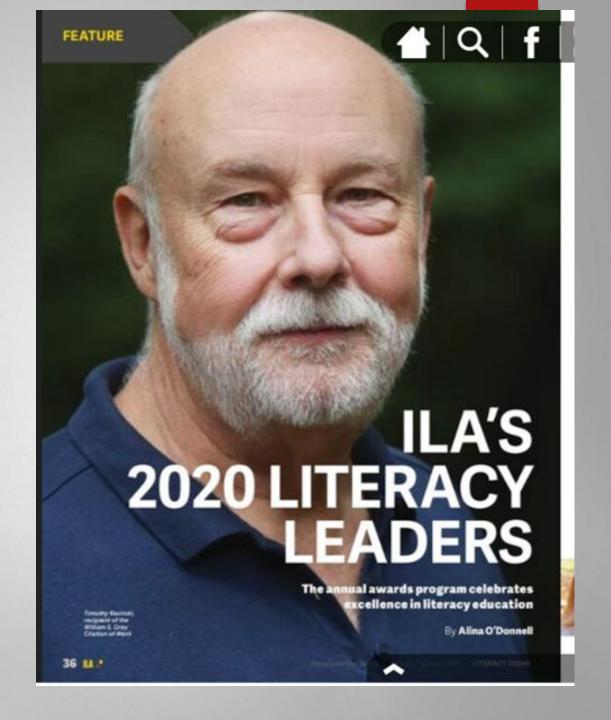
SCIENCE OF READING

I am a Scientist – about 200 research articles published in refereed journals

2010 International Reading Hall of Fame

2019 William S. Gray Award, ILA

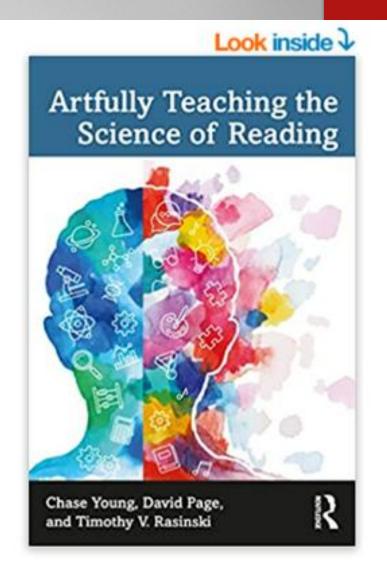
2021 & 2023
Top 2% Scientists
in the World.
Stanford University



I am also an Educational Artist

And you are too!

Creative Authentic Aesthetic



THE PROBLEM 1992-2024





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LEADERSHIP

POLICY & POLITICS

TEACHING & LEARNING

TECHNOLOGY

OPINION

JOBS

MARKET BRIEF 7

STUDENT ACHIEVEMENT

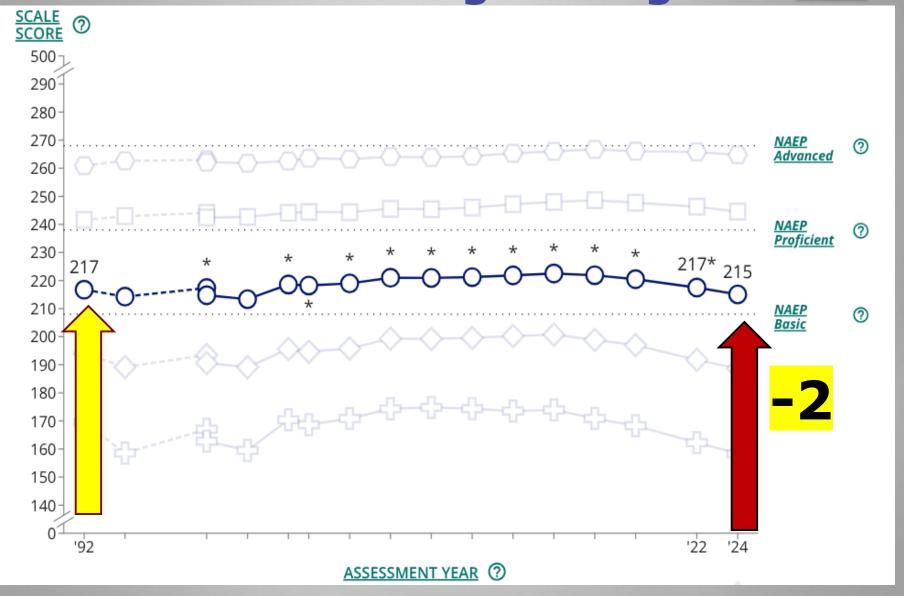
Reading Scores Fall to New Low on NAEP, Fueled by Declines for Struggling Students

Math scores slightly up in grade 4, stagnant in grade 8

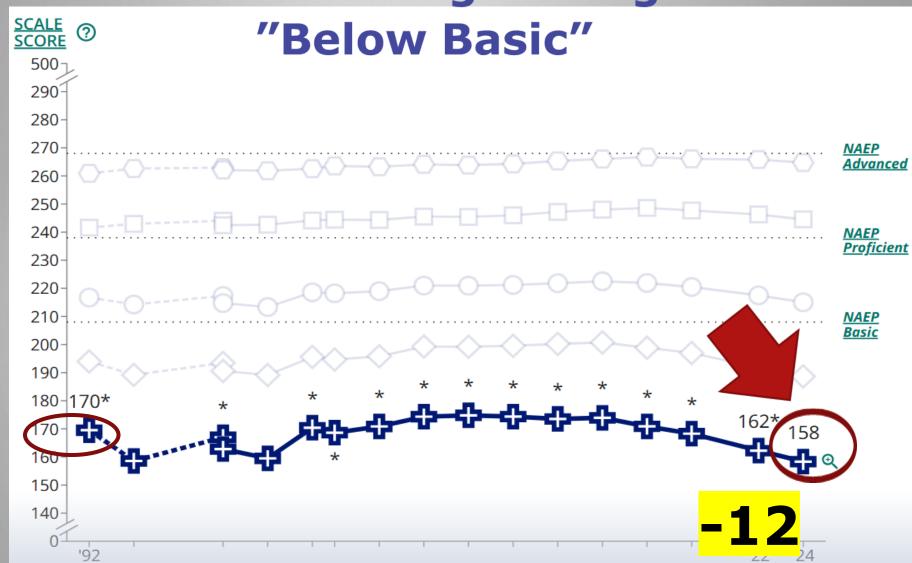


By Sarah Schwartz — January 29, 2025 🕔 8 min read

Trend in Fourth Grade NAEP Reading Average



Trend in Fourth Grade NAEP Reading Average-



WHY?

Lack of Systematic Phonics

Hard Words

Emily Hanford

Why aren't kids being taught to read?



Active View of Reading – 2021

This is a reader model. Reading is also impacted by text, task, and sociocultural context.

Effect Size: 0.46

ACTIVE SELF REGULATION

Motivation and engagement Executive function skills

Strategy use

(word recognition strategies, comprehension strategies, vocabulary strategies, etc.)

WORD RECOGNITION

Effect Size: 0.44

Phonological awareness
(syllables, phonemes, etc.)
Alphabetic principle
Phonics knowledge
Decoding skills
Recognition of words at sight

BRIDGING PROCESSES

Print concepts

Effect Size: 0.70

Reading fluency
Vocabulary knowledge
Morphological awareness
Graphophonological-semantic
cognitive flexibility
(letter-sound-meaning
flexibility)

LANGUAGE COMPREHENSION

Cultural and other content knowledge Reading-specific background knowledge (genre, text features, etc.)

Verbal reasoning (inference, metaphor, etc.)

Language structure (syntax, semantics, etc.)

Theory of mind

READING

Effect Size: 0.62

Active View of Reading – 2021 (Duke& Cartwright)

WORD RECOGNITION

Effect Size: 0.44

Phonological awareness
(syllables, phonemes, etc.)
Alphabetic principle
Phonics knowledge
Decoding skills
Recognition of words at sight





едиторіа

TOPICS ∨

VIDEOS

OUR MISSION

SIGN UP

Q

STUDENT ENGAGEMENT

Does Our Natural Affinity for Games Have a Place in the Classroom?

When one teacher organized his students into teams of competing barbarians, they embraced learning about ancient Rome.

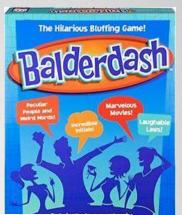
By Adam Moler

January 8, 2021



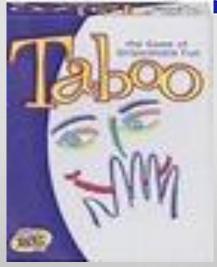
Word Games













KATHLEEN SAXE

WORD GAME

TODAY'S WORD JASMINE

(JASMINE: JAZ-min: A shrub or vine of the oliverily.)

Average mark 13 words Time limit 30 minutes

Can you find 18 or more words in JASMINE? The list will be published tomorrow.

KATHLEEN SAXE

ORD GAME

TODAY'S WORD - JASMINE

(JASMINE: JAZ-min: A shrub or vine of the olive family.)

Average mark 13 words Time limit 30 minutes

Can you find 18 or more words in JASMINE? The list will be published tomorrow.

> Mine Main

Jane Sine

Sane Jeans

Mane Mean

Same Jam

Name Sam

Sin Inseam

WORDO

	en loct.	4nfinished	undone
_			Unknown
	Undo	Unsafe	Unusual

WORDO (4x4)

W	0	R	D

pp. 6-7 HO

WORDO (5x5)

0	R	D	O!

Timrasinski.com > Resources

WORDO!

WORDO is a word game that is played in a similar manner as BINGO. Here is how it is played:

- 1) Provide each student with a blank WORDO! card (either 4x4 or 5x5).
- 2) Provide students with target words you wish to review with them. These can be words related to a particular subject area or words that you want your students to learn to recognize more accurately and automaticially. If using a 4x4 card, present students with 15-20 words; for the 5x5 card, present students with the 24-30 words. The words should be put on display (on the chalk or white board) for all the students to see.
- 3) Students then write one word in each box. If using 15 words for the 4x4 card or 24 words for the 5x5 card, one box on each card should be designated the "FREE" box. If you have more target words on display than there are boxes, students will have to leave some of the words off their grid. They get to choose which words to choose and which to leave out.
- **4)** Once their cards are filled with words it is time to play WORDO! You, as the teacher, should initially act as the Master of Ceremonies. You randomly

Word Ladders/Word Chains (A Word Building Game)



Focusing Attention on Decoding for Children With Poor Reading Skills: Design and Preliminary Tests of the Word Building Intervention

Bruce McCandliss

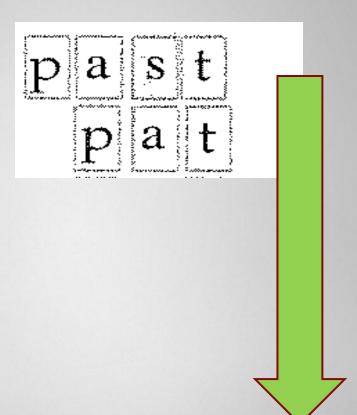
Weill Medical College of Cornell University

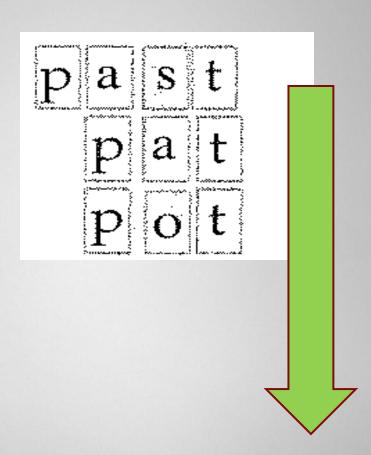
Isabel L. Beck, Rebecca Sandak, and Charles Perfetti

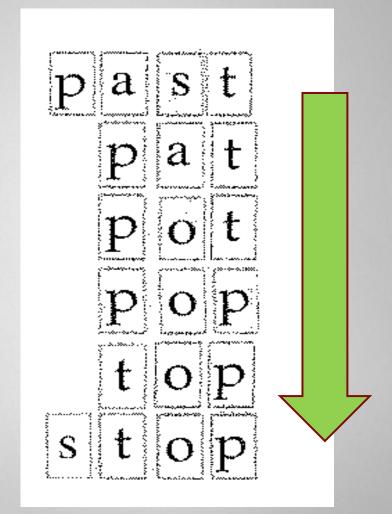
University of Pittsburgh

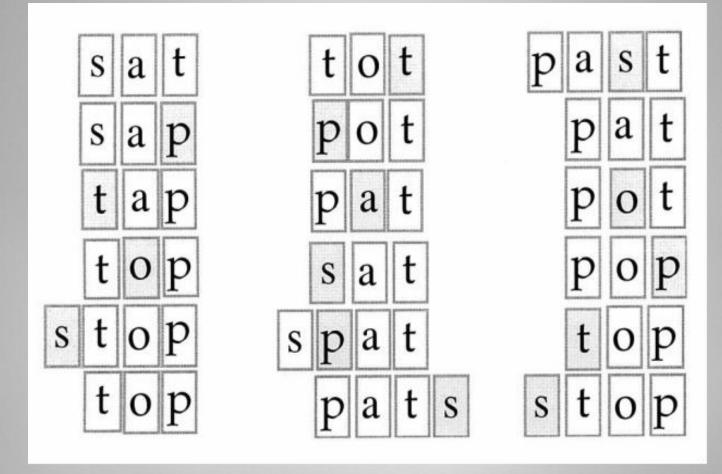
This study examined the reading skills of children who have deficient decoding skills in the years following the first grade and traced their progress across 20 sessions of a decoding skills intervention called Word Building. Initially, the children demonstrated deficits in decoding, reading comprehension, and phonemic awareness skills.

past









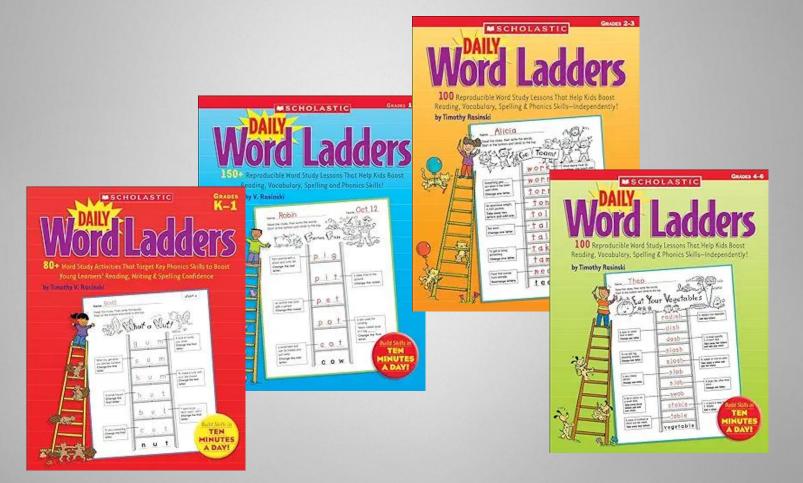
RESULTS

"Relative to children assigned to a randomly assigned control group, children assigned to the (word ladder) intervention ... demonstrated significantly greater improvement in standardized tests of phonological awareness, word decoding,..."

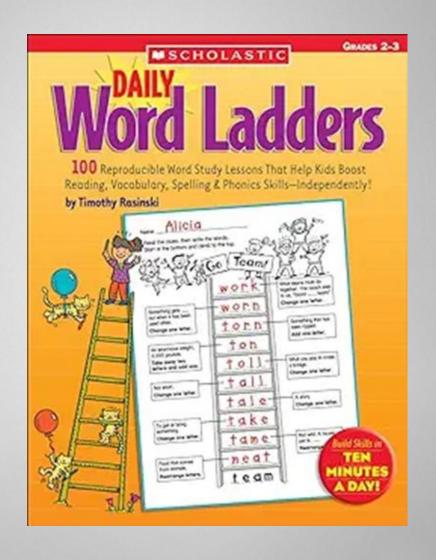
RESULTS

"Relative to children assigned to a randomly assigned control group, children assigned to the (word ladder) intervention ... demonstrated significantly greater improvement in standardized tests of phonological awareness, word decoding, and comprehension."

I Became <u>Artful</u> /<u>Creative</u> Word Ladders/Word Building



Let's Give It a Go...



Kin

Kin Pin

Kin Pin Pan

Kin
Pin
Pan
Nap

Kin
Pin
Pan
Nap
Sap

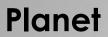
Kin Pin <u>Pan</u> Nap
Sap
Cap

Kin Pin <u>Pan</u> Nap Sap Cap Cup

Kin Pin <u>Pan</u> Nap Sap Cap Cup Pup

<u>Kin</u> <u>Pin</u> <u>Pan</u> <u>Nap</u> Sap Cap
Cup
Pup
Pup





Plane

Plan

Plane

Plan

Pan

Plane

Plan

Pan

Pin

Plane

Plan

Pan

Pin

Sin

Plane

Plan

Pan

Pin

Gin



Plane

Plan

Pan

Pin

Sin

Sip

Plane

Plan

Pan

Pin

Sin

Sip

Sit

Plane

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Hearth

Earth



- Trick 📮
- Track
- **Trace**
- Brace
- Grace
- Grate
- Great
- >????

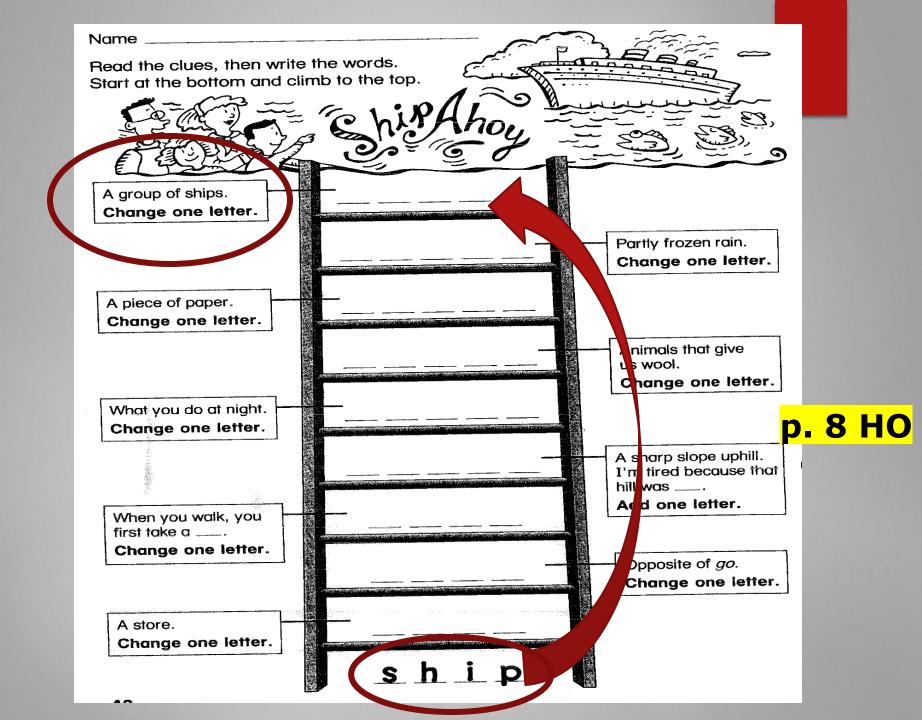
- Trick
- Track
- **Trace**
- **Brace**
- Grace
- Grate
- Great
- ► Treat

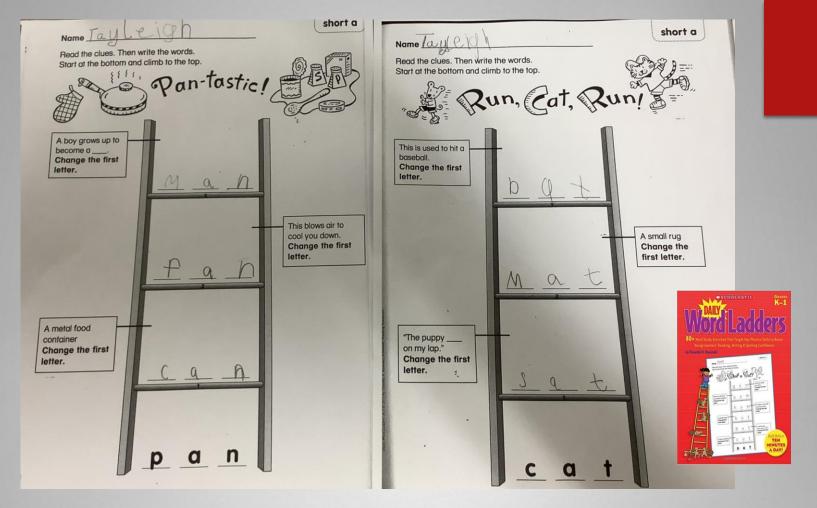


- Give
- Live
- Love
- Lone
- Lane
- Mane
- Man
- Ran
- Rank
- Hank
- > <mark>Thanks</mark>'



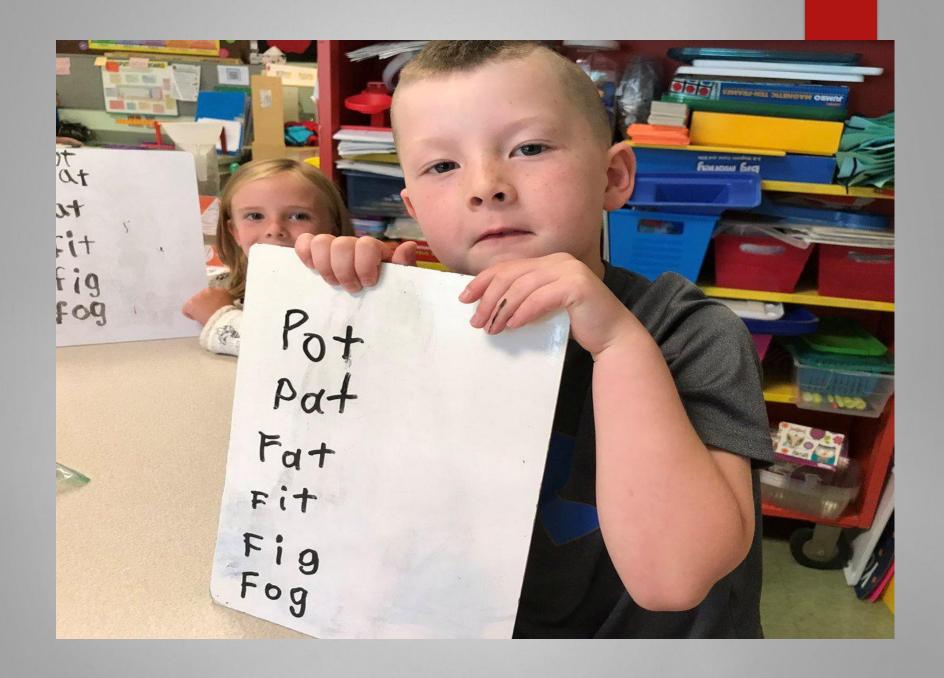


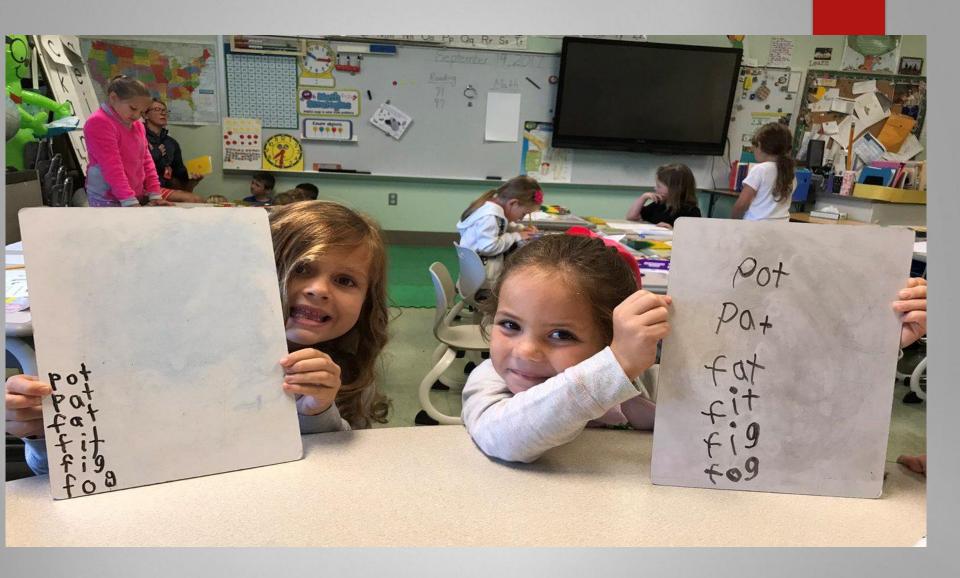




Hello Dr. Rasinski! I am a kindergarten teacher in Mercer County, WV. I attended your professional development on phonics and vocabulary and recently tried word ladders for the first time.......HUGE SUCCESS! The students loved it and immediately asked to complete a second ladder (which we did!). I am very surprised at how much they enjoyed the activity and thrilled with their ability to complete it with very few hints or assistance. Thank you for this wonderful teaching aid.

Michelle Redman







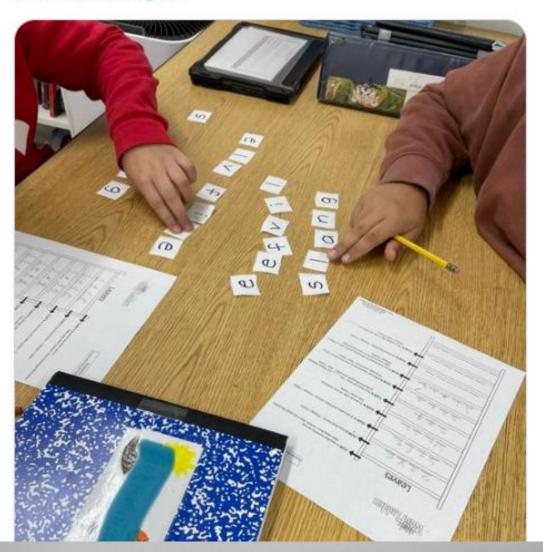


Melissa Graham @msmlgraham · 1h

Thank you @TimRasinski1 for sharing your word ladders!!

My students enjoy doing them. Today we added letter tiles to better manipulate the letters.

@CulbrethCougars



Thanks for all these!! I love activities that motivate kids (and caregivers!) to dig into the internal structure of words!!

Paul Wilson. Former Assistant Director - Center for the Study of Reading at University of Illinois at Urbana

Thanks for all these!! I love activities that motivate kids (and caregivers!) to dig into the internal structure of words!!

"Orthographic Mapping"

Paul Wilson. Former Assistant Director - Center for the Study of Reading at University of Illinois at Urbana

Bloom's Taxonomy

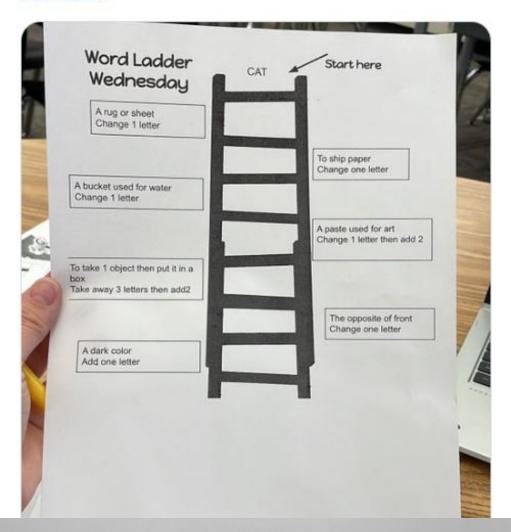
Create (Art)
Evaluate
Analyze
Apply
Understand
Remember

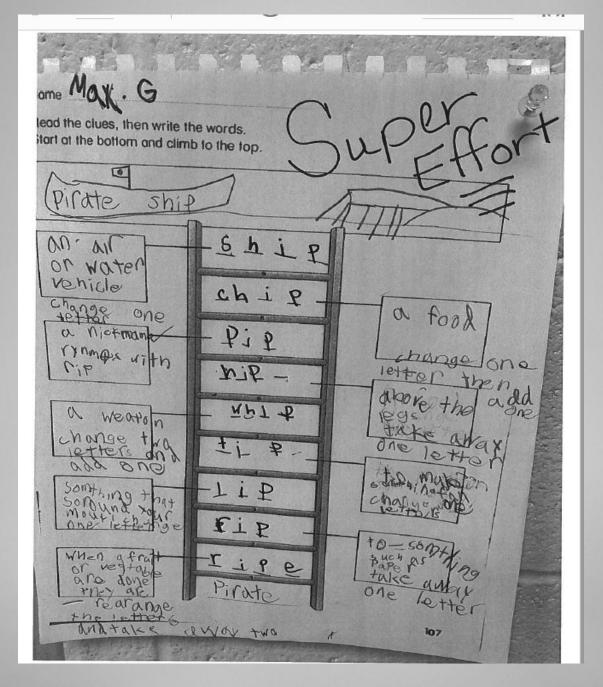


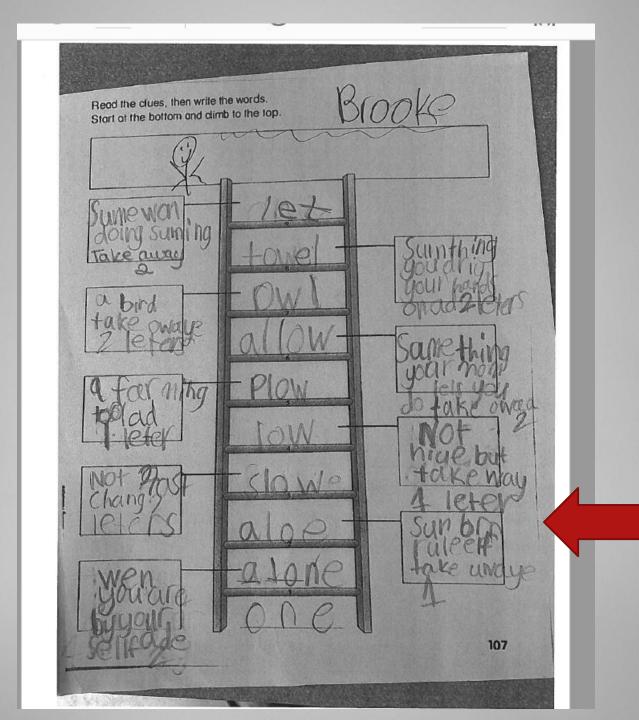
Amanda Fox @Mrs_Foxsays · 4h

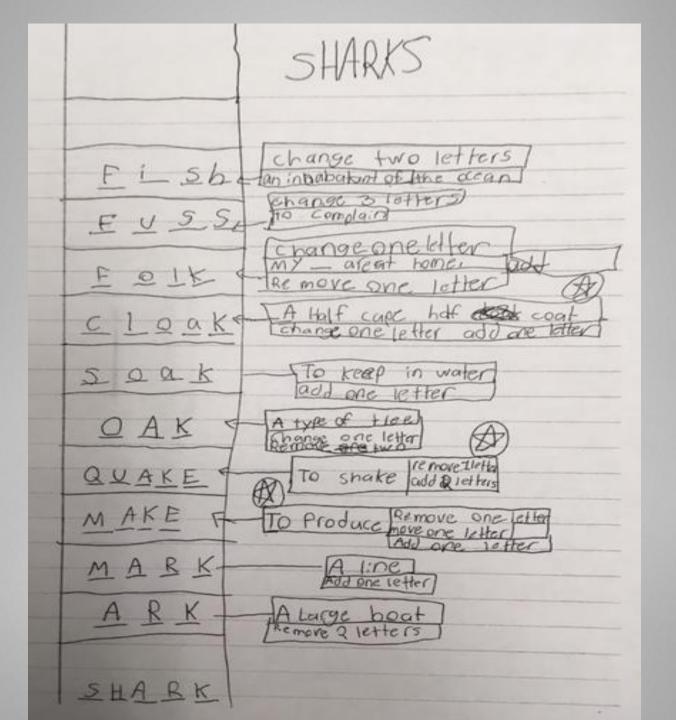
When your students LOVE Word Ladder Wednesday so much they start creating their own @TimRasinski1 #teacherheatfull #wordladderwednesday #scholars

...







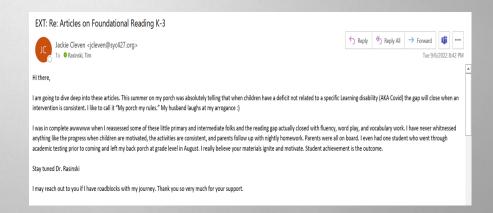


I was in complete awwwww when I reassessed some of these little primary and intermediate folks -- the reading gap actually closed with fluency, word play, and vocabulary work. I have never witnessed anything like the progress when children are motivated, the activities are consistent, and parents follow up with nightly homework. Parents were all on board.... I really believe your materials ignite and motivate. Student achievement is the outcome.

Jackie Cleven

2nd Grade (7-8 year olds)

Illinois, USA





Kristen McQuillan @mcglynn3 · 3h

This little guy is great about doing extra lessons with Mom, and we have been loving word ladders from @TimRasinski1 for the K/1 level. We can't wait to keep moving up to increasingly complex ladders. It's an easy (and fun!) warm up to get each lesson started.





Tweet

1 You Retweeted



Kathy James @MrsKathyJames



Just sent my email! Using your lessons in remote reading intervention K-3 and after years teaching striving readers, I can already tell that this time it's different! The kids are hooked, they want the words, and it's fun! Just what we need right now!

I love beeing Class and; love the word lader



Sharon Westerman @ShayWest4

Replying to @TimRasinski1

Thanks so much! Not just for kids, but my 80+ yo mother will love the word ladders, as crosswords have become too difficult for herb

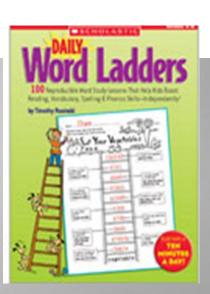
Good morning Tim,

I hope this email finds you well. I am a 4th grade teacher in Midland, Michigan. I was gifted one of your books (4th-6th grade word ladders) from a retiring teacher. I have been utilizing it in my classroom and not only do my students love it, but it has been so beneficial for them as a mixture of critical thinking, spelling, and vocabulary. I am part of a teacher Facebook group, and someone mentioned that you have a newsletter that sends out word ladders. I have scoured the internet in attempt to find out how to sign up, but I have been unsuccessful. Could you please direct me on how to sign up for your newsletter?

Thank you so much!

V/R

Jenaé Turner



Good morning Tim,

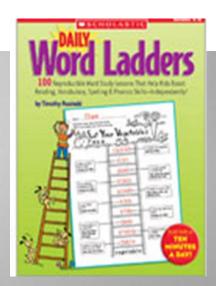
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Thank you so much!

V/R

Jenaé Turner

Send me an email for weekly word ladders:



trasinsk@kent.edu

Be My Valentine



Start with "Be" and go to "Valentine"

Teachers/Parents: Give students clues for each new word; or simply tell them the new word and talk about it after the student makes it.

Answer Key:



Be → CLUE: Another word for "I"; Opposite of you. Change 1 letter.

Me → CLUE: Possessive form of "me." _____soup is cold. Change 1 letter.

My -> CLUE: A word that means near or next to something. Change 1 letter.

By -> CLUE: To purchase something. Add 1 letter.

Buy CLUE: A friend; also part of a plant that begins to form into a leaf. Change 1 letter.

Bud - CLUE: To make an offer for something, as in an auction. Change 1

Bid -> CLUE: A container or box for storing items. Change 1 letter.

Bin - CLUE: A metallic substance, used in the past to make cans for food storage. Change 1 letter.

Tin -> CLUE: The sharp projecting part of a fork. Add 1 letter.

Tine > CLUE: A saint associated with love. Add 5 letters to the front.

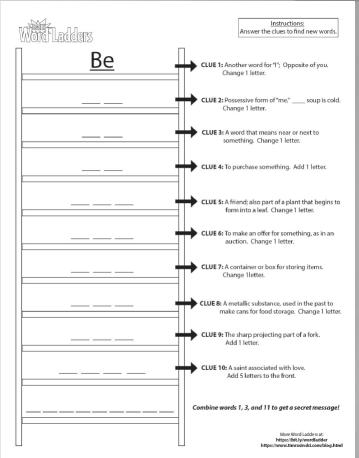
Valentine

Combine words 1, 3, and 11 to get a secret message!



More Word Ladders at: https://bit.ly/wordladder

https://www.timrasinski.com/blog.html



Word Ladder Wednesday Email, Twitter Facebook

Fluency Friday

(1ST VOICE)

I love you.

I love you too.

(2ND VOICE)

I love you three.
I love you lots.

I love you four.

I love you first.

I love you more.

I love you louder!!!

I love you longer.

I love you STRONGER!

I do because I said it first.

I do because I said it last.

I do because I said it s-l-o-w.

I do because Isaiditfast.

I love you more than One hundred thousand Million billion Bags of sweets.

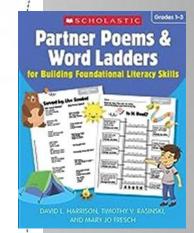
> I love you more than Two jillion trillion Zillion quadrillion Chocolate treats.

I love you everything Under the sun.

> I love you everything, Plus one.

I love you more Than I can measure.

> And I love you, My truelove treasure.





Word Ladders

Saint Patrick's Day

Start with "Saint" and go to "Trick"

Teachers/Parents: Give students clues for each new word; or simply tell them the new word and talk about it after the student makes it.

Answer Key:

Saint CLUE: A colored liquid used for coloring walls and objects. Change 1 letter.

Paint - CLUE: The feeling associated with an injury. Subtract 1 letter.

Pain - CLUE: What a pie is baked in. Subtract 1 letter.

Pan -> CLUE: To strike gently with something flat. Change 1 letter.

Pat -> CLUE: To strike something lightly and repeatedly, Rearrange the letters.

Tap → **CLUE:** A device used for catching animals. Add 1 letter.

Trap → CLUE: To travel from one place to another; also, to stumble. Change 1 letter.

Trip -> CLUE: To put into a neat or orderly condition by clipping. Change 1 letter.

CLUE: To deceive or cheat. On Halloween we say ___ or treat. Replace last letter with 2 new letters.

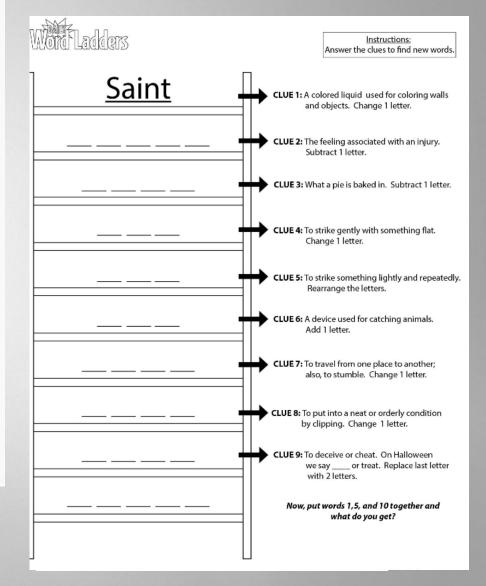
Trick

Now, put words 1,5, and 10 together and what do you get?



More Word Ladders at: https://bit.lv/wordladder

Word Ladder Wednesday trasinsk@kent.edu









Start with "Pie" and go to "Pizza"

Teachers/Parents: Give students clues for each new word; or simply tell them the new word and talk about it after the student makes it.

Answer Key:



CLUE: A short, slender piece of wire with a point at one end and a ➤ Pie → rounded head at the other; used for fastening pieces of cloth. Change 1

Pin -> CLUE: A coniferous tree. Add 1 letter.

Pine → CLUE: A liquid volume of 16 ounces. Change 1 letter.

Pint - CLUE: A football kick on 4th down. Change 1 letter.

Punt - CLUE: When dogs breathes heavily. Change 1 letter.

Pant

CLUE: To stroke or tap gently with the palm or fingers as an expression of affection. Subtract 1 letter.

Pat -> CLUE: A hole or cavity in the ground. Change 1 letter.

CLUE: A round, flat Middle Eastern bread that is often filled with meat and other foods to make a sandwich. Add 1 letter.

Pita -> CLUE: A favorite Italian dish. Replace the "t" with 2 other letters.

Pizza

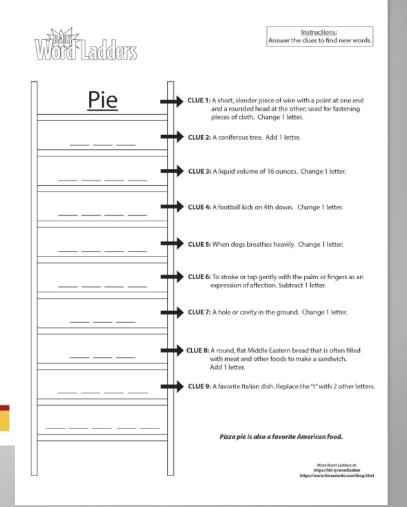
Pizza pie is also a favorite American food.



More Word Ladders at: https://bit.ly/wordladder

https://www.timrasinski.com/blog.html

Word LadderWednesday trasinsk@kent.edu



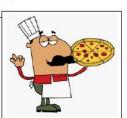
Fluency Friday

Pizza Pie Poetry!

I Want Pizza!

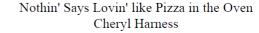
I want pizza, if you please, but only thin crust, just with cheese. There's nothing else that I will eat, unless, I guess, a little meat pepperoni, sausage, ham, bits of bacon. chunks of spam. Peppers? Yes! But like I said, only yellow, green, and red. One last thing, to grant my wish? I'll only eat it thick deep dish.

© 2022 David L. Harrison









Happy is the fella Who's got him a pie - lucky guy! -Topped w/ sauce & mozzerella!

Throw on some bacon
Or pepperoni, extra cheese - please!
And there's a feast in the makin'!

Oh baybee, that first bite -Hot cheese goin' all stretchy string OW! That burnin' hot-mouth sting! Oh, then that cooled-down pizza delight

Nothin' else can satisfy Like filling up a belly With a perfect pizza pie.

© 2022 Chery Harness

More by Cheryl Harness – a great book for African-American History Month (or any month)!



trasinsk@kent.edu



Arbor Day



Tim Rasinski

627 Tweets



Tim Rasinski @TimRasinski1 · 5h

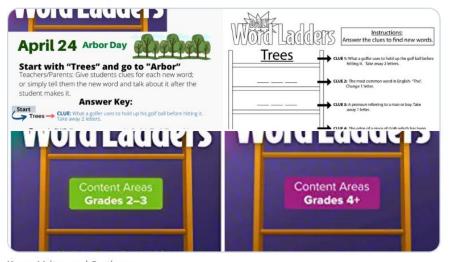
1 of 3

April 24 - Today is Arbor Day! Today's Word Ladder Lesson celebrates Trees (an early version of Earth Day).

To Print: "Save Image" then "Print"

Pls RETWEET for others parents & teachers to use. Thanks.

@ILA @NCTE @DyslexiaIDA @weareteachers @educationweek



Karen Vaites and 9 others

Word Ladders

April 24 Arbor Day



Start with "Trees" and go to "Arbor"Teachers/Parents: Give students clues for each new word;

Teachers/Parents: Give students clues for each new word; or simply tell them the new word and talk about it after the student makes it.

Answer Key:

Start

Trees CLUE: What a golfer uses to hold up his golf ball before hitting it.
Take away 2 letters.

Tee -- CLUE: The most common word in English "The." Change 1 letter.

The -> CLUE: A pronoun referring to a man or boy. Take away 1 letter.

 $\mbox{He} \longrightarrow \mbox{CLUE:}$ The edge of a piece of cloth which has been turned under and sewn. Add 1 letter.

Hem CLUE: A type of meat from a hog. Change 1 letter.

Ham CLUE: Physical injury or damage. "Eating that food may _____ you."

Add 1 letter.

Harm CLUE: A stringed musical instrument, often associated with angels. Change 1 letter.

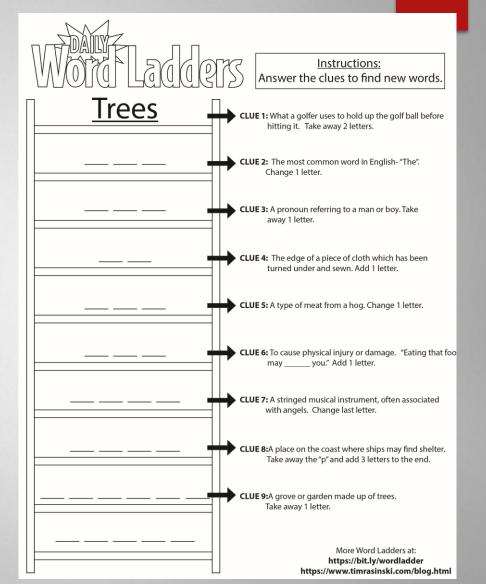
 $\textbf{Harp} \longrightarrow \begin{tabular}{l} \textbf{CLUE:} A place on the coast where ships may find shelter. Take away the "p" and add 3 letters to the end. \\ \end{tabular}$

Harbor→ CLUE: A grove or garden made up of trees. Take away 1 letter.

Arbor Great Job!

More Word Ladders at: https://bit.ly/wordladder

https://www.timrasinski.com/blog.html



Follow up with Fluency Friday



I think that I shall never see A poem lovely as a tree.

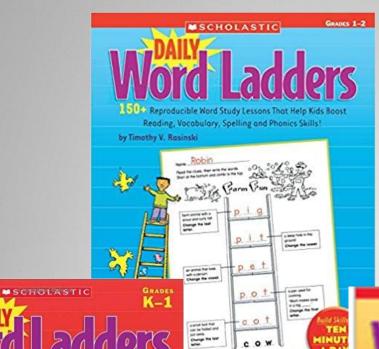
A tree whose hungry mouth is prest Against the earth's sweet flowing breast;

A tree that looks at God all day, And lifts her leafy arms to pray;

A tree that may in summer wear A nest of robins in her hair;

Upon whose bosom snow has lain; Who intimately lives with rain.

Poems are made by fools like me, But only God can make a tree.



COW

80+ Word Study Activities That Target Key Phonics Skills to Boost

s u m

h u m

hut

n u t

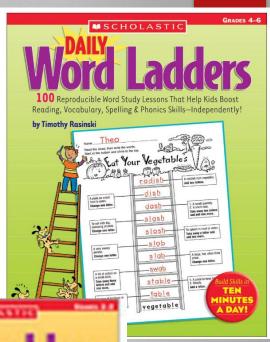
TEN MINUTES

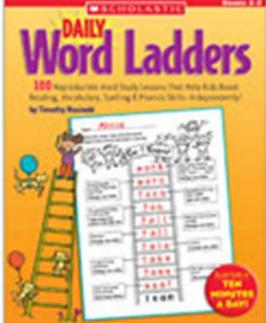
A DAY!

What you get when you add two numbers Change the first belief.

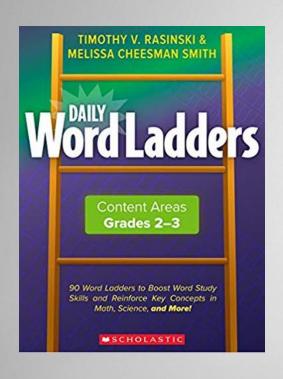
A small hools Change the Sout letter.

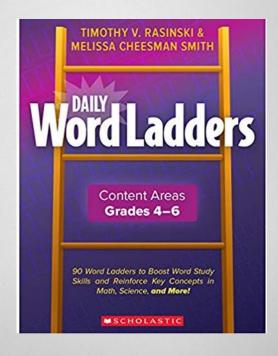
by Timothy V. Rasinski

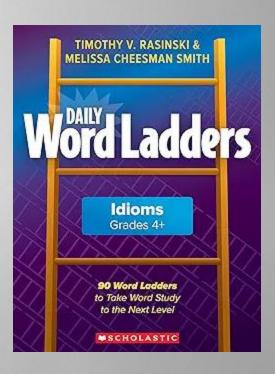




Daily Word Ladders: Content Areas, Figurative Language







But It's More Than Just Phonics

Forbes

FORBES > LEADERSHIP > EDUCATION

Just Adding More Phonics Yields Only Short-Term Gains On **Reading Tests**

Natalie Wexler Senior Contributor ©

I write about education, cognitive science, and fairness.





Apr 26, 2023, 01:21pm EDT



Listen to article 11 minutes



Active View of Reading – 2021

This is a reader model. Reading is also impacted by text, task, and sociocultural context.

Effect Size: 0.46

ACTIVE SELF REGULATION

Motivation and engagement Executive function skills

Strategy use

(word recognition strategies, comprehension strategies, vocabulary strategies, etc.)

WORD RECOGNITION

Effect Size: 0.44

Phonological awareness (syllables, phonemes, etc.) Alphabetic principle Phonics knowledge

Decoding skills
Recognition of words at sight

BRIDGING PROCESSES

Effect Size: 0.70

Print concepts
Reading fluency
Vocabulary knowledge
Morphological awareness
Graphophonological-semantic
cognitive flexibility
(letter-sound-meaning
flexibility)

LANGUAGE COMPREHENSION

Cultural and other content knowledge Reading-specific background knowledge (genre, text features, etc.)

Verbal reasoning (inference, metaphor, etc.)

Language structure (syntax, semantics, etc.)

Theory of mind

READING

Effect Size: 0.62

Active View of Reading – 2021 (Duke& Cartwright)

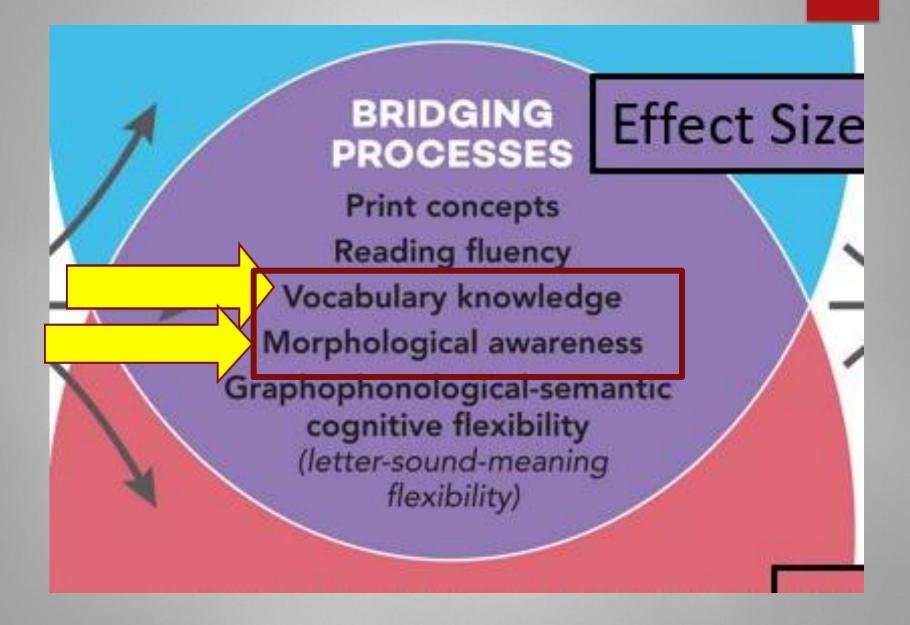
WORD RECOGNITION

Effect Size: 0.44

Phonological awareness
(syllables, phonemes, etc.)
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Decoding skills
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Active View of Reading – 2021 (Duke & Cartwright)



Active View of Reading -2021

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Alphabetic principle

Phonics knowledge

Decoding skills

Recognition of words at sight

BRIDGING PROCESSES

Effect Size: -70

Print concepts

Reading fluency

Vocabulary knowledge

Morphological awareness

Graphophonological-semantic cognitive flexibility (letter-sound-meaning

flexibility)

LANGUAGE COMPREHENSION

Effect Size: 0.62

READING

Cultural and other content knowledge

Reading-specific background knowledge

(genre, text features, etc.)

Verbal reasoning

(inference, metaphor, etc.)

Language structure

(syntax, semantics, etc.)

Theory of mind

A Model of Reading Instruction

Word Study

Accuracy in:

Phonics (Word Decoding)

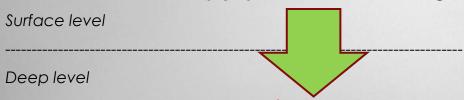
Spelling

Vocabulary

Fluency Instruction

Automaticity in Word Recognition

Prosody (Expressiveness in Reading)

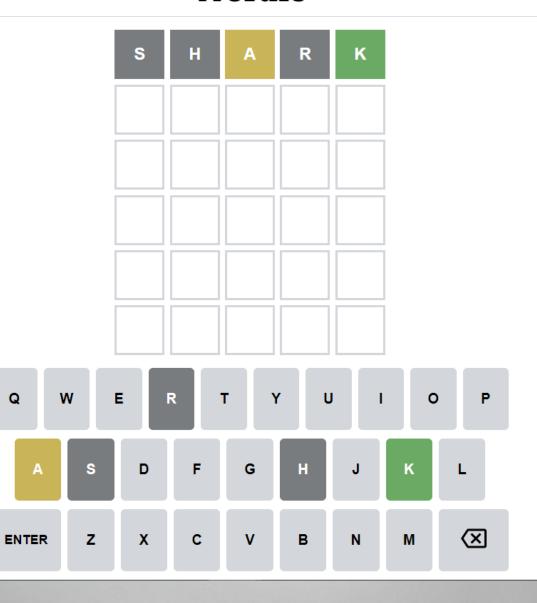


Comprehension

Comprehension Strategies

Knowledge

Wordle





January 28, 2022 • 5 min

What Wordle Reminds Us About Effective Phonics and Spelling Instruction









Abstract

Games can engage young learners, and help them identify rules and patterns in language all on their own.

1. Some

letters are

INSTRUCTIONAL STRATEGIES

CURRICULUM

January 28, 2022 • 5 min

What Wordle Reminds Us About Effective Phonics and Spelling Instruction









Engaging with phonics and spelling can be highly engaging for child as well. One research-supported instructional technique for developing work ading and spelling called word building is not that different from Wordle. For ample, young children might build sat, sap, tap, top, stop, and so on. Tim Rasinski, a professor of literacy education, incorporates meaning-based clues into word building. For example, from the word "dart," he asks students to "change one letter to make another word for soil or earth" (dirt).

Vocabulary

www.timrasinski.com > Blog (April 24)

Word Ladders for the Win

By Alaina Weatherford

I have seen a huge increase in my students' overall interest level concerning words. If there is a word on the ladder they do not know, they are genuinely curious about what the word means. We take the time to discuss the word, look up the definition, and pull up images online. Because of this, the number of words they have in their vocabulary has increased exponentially.





Thinking through research and the science of reading

Elfrieda H. Hiebert

September 25, 2023

"Journalists and policy makers often interpret these results to mean that students who perform at the below-basic level are unable to read (Hanford, 2019) or, at the very least, need to revisit phonological decoding and word recognition (White et al., 2021). But research examining the profiles of 4th graders scoring at the below-basic level shows it is not foundational word identification that challenges these students but rather vocabulary and meaning-making."

BY STEPHANIE BA

half of what the expected to on a new vo a national exact dence of several the nation's respectively.

age of 265 out of 00 in vocabulary on the 2011 sational Assessment of Educational Progress, the results of which were made public Thursday. Fourth-graders averaged a score of 218 out of 500.

The results showed that nearly half of eighth-graders didn't know that "permeates" means to "spread all the way through," and about the same proportion of fourth-graders didn't know that "puzzled" means confused—words that educators think students in those grades should recognize.

Most fourth-graders did know the meaning of "created," "spread" and "underestimate." At eighth grade, most students knew "grimace," "icons" and "edible."

The new vocabulary test was embedded in the biennial national reading exam, known as the NAEP. Last year's scores were in line with those posted in 2009, the first time vocabulary scores were broken out, but the latest results are the first to be made public.

Margaret McKeown, a senior scientist at the Learning Research and Development Center at the University of Pittsburgh, said she wasn't surprised by the results but that they are cause for concern. "There is very little vocabulary done in any classroom at any age," said Ms. McKeown.

Leslie Russell, a reading specialist at Butts Road Intermediate School in Chesapeake, Va., said the vocabulary scores could be improved if students were more immersed in literacy at school and at home. "We need to make more of an effort to get parents involved in teaching reading and teaching them how to help children make sense of words they do not know," she said.

do not know," she said.
In 2009, 12th graders also took the exam administered by the U.S. Department of Education. Their average score was 296 out of 500 on the vocabulary portion.

The department has given the reading exam for decades but decided to add new questions in 2009 to more fully test students knowledge of grade-level vocabulary. The words were embedded in reading passages and students were asked their definition in a multiple-choice format.

"Without a strong vocabulary, any child's ability to read and to learn suffers dramatically," David Driscoll, chairman of the National Assessment Governing Board, which sets policy for NAEP, said in a statement.

The Search for Meanings

Fifty percent or fewer of U.S. public- and private-school students knew the meaning of the following words in a national reading exam given to fourth- and eighth-graders in 2009 and 2011, and to 12th-graders in 2009.

barren eerie detected flourish prestigious

EIGHTH GRADE Urbane 12th GRADE delusion mitigate

到秦家家

Fourth-grade | On page one, the passage says that some boys were puzzled test question | when they visited the Public Garden. This means the boys were:

to follow the ducks hoping to play games with the ducks surprised that there were so many ducks confused that there were no ducks

Vocabulary Declines, With Unspeakable Results

By E.D. Hirsch Jr.

or all the talk about inc inequality in the Ur States, there is too little ognition of education's role i problem. Yet it is no coincidence that, as economist John Bishop has shown, the middle class's economic woes followed a decline in 12th-grade verbal scores, which fell sharply between 1962 and 1980—and, as the latest news confirms, have remained flat ever since.

The federal government reported this month that students' vocabulary scores on the National Assessment of Educational Progress have seen no significant change since 2009. On average, students don't know the words they need to flourish as learners, earners or citizens.

All verbal tests are, at bottom, vocabulary tests. To predict competence most accurately, the U.S. military's Armed Forces Qualification Test gives twice as much weight to verbal scores as to math scores, and researchers such as Christopher Winship and Anders D. Korneman have shown that these verbally weighted scores are good predictors of income level. Math is an important index to general competence, but on average words are twice as important.

Yes, we should instruct students in science, technology, engineering and math, the muchballyhooed STEM subjects—but only after equipping them with a

base of wide general knowledge and vocabulary.

dents don't learn new ds by studying vocabulary They do so by guessing new as within the overall gist hey are hearing or readand understanding the gist

A good first step to fight income inequality:
Do a better job of teaching kids to read.

requires background knowledge. If a child reads that "annual floods left the Nile delta rich and fertile for farming," he is less likely to intuit the meaning of the unfamiliar words "annual" and "fertile" if he is unfamiliar with Egypt, agriculture, river deltas and other such bits of background knowledge.

Yet in the 1930s, American schools transformed themselves according to the principles of "progressive education," which assume that students need to learn not a body of knowledge but "how-to" skills that (supposedly) enable them to pick up specific knowledge later on. Analyses of schoolbooks between 1940 and 1960 show a marked dilution of subject matter and vocabulary. Little surprise, then, that students began scoring lower on tests that probed knowl-

edge and vocabulary size. The decline became alarming in the 1970s, as the federal report "A Nation at Risk" pointed out in 1983.

The focus on the "skill" of reading has produced students who cannot read. Teachers cannot cultivate reading comprehension by forcing children to practice souldeadening exercises like "finding the main idea" and "questioning the author." Students would be better off gaining knowledge by studying real subject matters in a sensible, cumulative sequence. Instead, elementary schools are dominated by content-indifferent exercises that use random fictional texts on the erroneous assumption that reading comprehension is a formal skill akin to typing.

Vocabulary-building is a slow process that requires students to have enough familiarity with the context to understand unfamiliar words. Substance, not skill, develops vocabulary and reading ability-there are no shortcuts. The slow, compounding nature of vocabulary growth means that successful reform must lie in systematic knowledge-building. That is the approach used in South Korea, Finland, Japan, Canada and other nations that score highly in international studies and succeed best in narrowing the verbal gap between rich and poor students.

In the U.S., 45 states have recently adopted the Common Core State Standards for language arts. The standards have been denounced for various pedagogical and political reasons, but all sides in the debate should accept one key principle in the new standards: "By reading texts in history/social studies, science, and other disciplines, students build a foundation of knowledge... to be better readers in all content areas. Students can only gain this foundation ... [through] rich content knowledge within and across grades."

Opponents of Common Core's new nonfiction requirement ought to recognize that good, knowledge-enhancing nonfiction is literature that helps students gain the knowledge and words they need to understand fiction and everything else.

The most secure way to predict whether an educational policy is likely to help restore the middle class and help the poor is to focus on the question: "Is this policy likely to translate into a large increase in the vocabularies of 12th-graders?" When questions of fairness and inequality come up in discussions, parents would do well to ask whether it's fair of schools to send young people into a world where they suffer from vocabulary inequality.

Mr. Hirsch, a former professor of education and humanities at the University of Virginia, is founder of the Core Knowledge Foundation. This op-ed is adapted from an essay forthcoming in the Winter 2013 issue of City Journal.



Joy Resmovits Joy Re

Posted: 12/06/2012 11:00 am EST | Updated: 12/06/2012 3:00 pm EST

If you can identify the meaning of the word "prospered" within a passage, chances are you know more vocabulary than most American high school seniors.

The results of the <u>national standardized vocabulary tests</u> are in, and the scores are troubling – but not unexpected – experts say. Average performance on the U.S. Education Department's national exams was mostly stagnant at low levels between 2009 and 2011, and the highest performers lost ground during that time.

"We should be worried about this," said Cornelia Orr, executive director of the National Assessment Governing Board. "It's not any more of a crisis than we've been seeing in reading."

On Thursday, the National Center for Education Statistics, the U.S. Education Department's research arm, released the vocabulary scores for fourth- and eighth-grade students on the 2009 and 2011 reading comprehension exams administered by the <u>National Assessment of Educational Progress</u>. This is the first time the results of a separate scale for vocabulary questions on the national reading comprehension test have been released. NAEP is considered the "gold standard" of standardized testing, since stakes are low for children and since the tests are designed by the federal government, which has no skin in the game in terms of how states perform. (The release also included 12th grade scores for only 2009, since that exam is only given every four years).

On average, fourth-graders scored 218 out of a total of 500 points, and eighth-graders scored 265. The top-performing fourth-graders (in the 90th percentile) only netted a 266; in eighth-grade, these students got a 311; and in 12th grade, they scored at 334.

"There is the expectation that students would know all of the words that were assessed," Orr said. "The lower the percentage of students who get these questions correct means they do not know enough."

Fourth-graders were tested on words like created, spread, clenched, outraged, puzzled and striking. Eighth-graders were expected to know anecdotes, edible, replicate, specialty, laden and permeated. High school seniors were asked about prospered, capitalize, articulate, proactive, mitigate and delusion. As NCES described it, these words are used in written language across a variety of content areas.

SOME FACTS ABOUT ENGLISH VOCABULARY

English has the largest lexicon in the world –over 1,000,000 words!

(Rasinski, Padak, Newton & Newton, 2020)



Each year over 12,000 new words are added to the English language!

(Rasinski, Padak, Newton & Newton, 2020)

```
FOMO flatform TLDR street food blondie pixie cut LDR balayage MOOC space tourism by space tourism buzzworthy dappy pear cider omnishambles bear of cake pop click and collect srsly squee me time food baby hackerspace fauxhawk guac girl crush
```

The average 5th grader will meet 10,000 new words in reading.

(Nagy & Anderson, 1984)

Students will need to know approximately 500,000 words by the time they finish high school! (Nagy & Anderson, 1984)



Students will need to know approximately 500,000 words by the time they finish high school!

(Nagy & Anderson, 1984)

That's about 28,000 words per year from birth to age 18.



Students will need to know approximately 500,000 words by the time they finish high school! (Nagy & Anderson, 1984)



And that's over <u>500</u> words per week from birth to 18.



Yet, research has found that students can learn only 8-10 words per week through direct instruction.

(S

So what's the **BEST** way to teach vocabulary?

So what's the **BEST** way to teach vocabulary?

Not sure there is a BEST way, but I do know some not-sogood way to teach words? Antonyms ちとかり

Part of Speech & Definition Due Next Fri

VOCABULARY LIST

interrupt

SULTOW

death

Mike Rasinski Read per 1 March 1

(12) adroit - adj skillfull & clever 21. garraious adi talking too much about inconsequential 22. trapped m. hand to hand Z apprise - V. to notity Struggle, a grip La. aromatic - adj having an 23. guidon aroma 14. sepetic-adj self denying, austere 24, impose-v. to place a burdenon n. one who leads a life of settle to force onto others L8. bayou-A. in Southern U.S. A 25. interpose - V, to intervince, marshy inlet or outlet of lake, belicose -adj. quarrelsome, 26. knell - V. to ring stowy, ominously - ommen of warlike v7. choleric-adjeasily angered 27. languar - A. Lack of vigor, weakness (8.) cloister - n. a monestary or Convent because absurd or Flancillous V9. conjecture - n. guess, inferring 29. malevolence without complete evidence 16. copious -ad/ copious 30. mandin - adj. foolishly, often tearfully sentimental abundant VIX. coquetry-n. agirlorwoman hand to hand Aght 12. cornice - 1. a horizontal molding projecting along the /13. coursecous n. brave persons or things Va debris-1. bits & pieces of 34. orb. n. globe or sphere Stone, rubbish, etc. 15. decorum - n. whatever 15 35. ostracism - 1. practicing Suitable or proper banishing one 36. pantatoons - n. trousers V16. diadem - n. - Crown, ornamental headband 117. docite-adj. easy to discipline formly in India any oppressed class of something V18. donatic-adj. asserted Wo proof positive or arrogant 19. doleral adj. sad, mournful arousing pity 39. pertions - adj dangerous, involving perit 40. plaintive adj expressing V20. errace-V. Keep from being noticed, blot out

41. restive-adj restless, uneasy hard to manage refusing 42. reverse o ahead thinking of pleasant things 43. roseate - adj. roseate color cheerful optimistic 44. rueful - adj sorrowful unhappy causing sorrow 45. sallow-adj. having a sickly yellow complexion 46. sardonic ad bitterly Sarcastic scornful or 47. Savant 19 n. a learned person 28. Indicrous - adj. causing loughter 48. sententions - adj saying much in few words 49. sexton-n person who takes cure of a church, rings, bells, arranges, burials 50. sinuous ad having many curves or turns @ 10direct, un trustworthy 31. melee-n confused general 51. suffuse-v. overspread (with liquid, dye, exc.) 32. molten-ad, melted by heat 52 surmount-ad. rise above & overcome 33. myriad - 1. ad, very many 53. surplice-1. broad sleeved white gown worn by members of dergy of choir 54. sylvan adj. characterstic of woods, wooded, 55. tableau - n. presentation of a scene by costumed so. redicus ad firesome boring hackneyed 37. pariah-n. any outcast person 57. travail-n. hard work or severe pain 58. undulate - V. to Cause to move by waves 59. vanquish - V. to deteat 60. venerable - ad worthy of respect because

of one's dignity etc.

Traditional Vocabulary Instruction

- in restive-adj restless, uneasy hard to manage refusing 12. reverse on ahead thinking of pleasant things 13. roseate-adj. roseate color, cheerful optimistic

- 44. ruetul-adj sorrowful unhappy causing sorrow
- 45. sallow-adj. having a

 Sickly yellow complexion

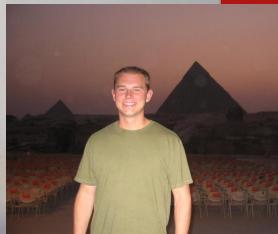
 46. sardonic-adj bitterly

 Sarcastic scornful or

 mocking

 47. savani-ng
- n. a learned person
- 5 Much in few words







97 AMW

Li Col Mike Rasmoki





Traditional Vocabulary Instruction

- in restive-adj restless, uneasy hard to manage refusing 12. reverse on ahead thinking of pleasant things 13. roseate-adj. roseate color, cheerful optimistic

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 Sickly yellow complexion

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- 5 Much in few words

Let's Start with the Concept of Patterns

The Human Brain is a Pattern Detector

Promitises in NEUROSCIENCE

REVIEW ARTICLE published 22 August 2014



Superior pattern processing is the essence of the evolved human brain

Mark P. Mattson 12*

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pondered the nature of their mind/brain and, particularly why its ing, communication and abstract thought are far superior to other CRE sely related anthropoids. This article considers superior pattern SIDH e fundamental basis of most, if not all, unique features of the per 0055 stelligence, language, imagination, invention, and the belief in human b ghosts and gods. SPP involves the electrochemical, neuronal imaginary integration, and transfer to other individuals of perceived network-bas terns. During human evolution, pattern processing capabilities or mentally-f phisticated as the result of expansion of the cerebral cortex. became incre ital cortex and regions involved in processing of images. Specific particularly the igined, are reinforced by emotional experiences, indoctrination and even psychedelic drugs. Impaired or dysregulated SPP is fundamental to cognitive and psychiatric disorders. A broader understanding of SPP mechanisms, and their roles in normal and abnormal function of the human brain, may enable the development of interventions that reduce irrational decisions and destructive behaviors.

Keywords: evolution, hippecampus, language disorders, religion and science, neuronal network

INTRODUCTION

The fundamental function of the brains of all animals is to encode and integrate information acquired from the environment through sensory inputs, and then generate adaptive behavioral responses. Sensory information is first rapidly encoded as patwhich is well-characterized in apes, was a precursor to language during human evolution (Liebal et al., 2004; Tomasello, 2008).

The cognitive repertoire of humans far exceeds that of all other animals, and understanding the neurobiological basis of this superiority is therefore of interest not only to scientists,

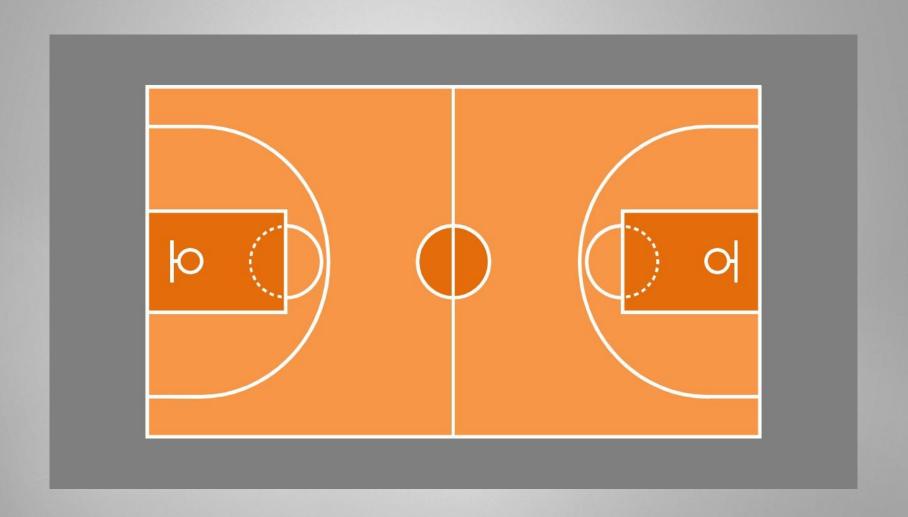
Today \

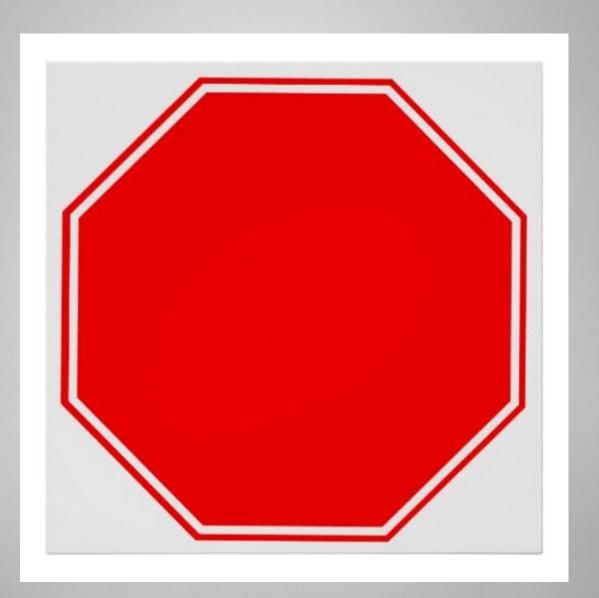
Psychology Today

KEY POINTS

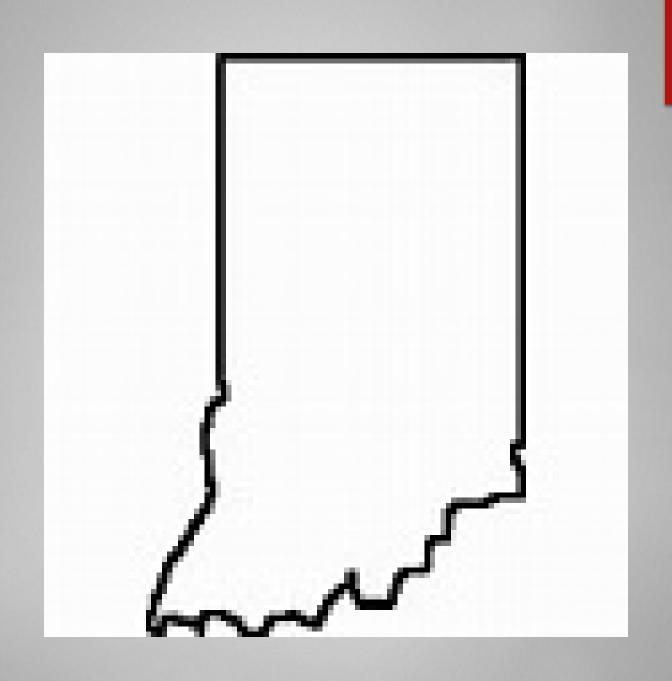
- Humans can't help but look for patterns and find structure in the information coming their way.
- The neocortex, the outermost layer of the brain, is found only in mammals and is responsible for humans' ability to recognize patterns.
- Although computer algorithms can spot patterns, an algorithm has not yet been developed that outperforms the human mind.

"Over centuries of evolution, humans' pattern recognition skills determined natural selection. Hunters skilled at spotting prey and predator and telling poisonous plants from healthy ones offered them a better chance of survival than those blind to the patterns. It enabled the survivors to pass on those









There are also Linguistic Patterns help us negotiate written language

Can You Read These Hard Words

Metrodacious
Distrational
Redipulate
Bessagogue
Chinique

Hard Words

Chinique

```
Metrodacious (-acious = spacious)

Distrational (-ational = rational)

Redipulate (-ipulate = stipulate)

Bessagogue (-agogue = synagogue)
```

(-nique = unique)

Phonics Word Patterns Word Families/Phonograms/Rimes

BY ADDING A BEGINNING LETTER(S) TO THESE WORD FAMILIES, STUDENTS CAN SPELL AND READ 654 ONE SYLLABLE WORDS (AND THOUSANDS OF MULTISYLLABIC WORDS!)

-AB	-AT	-INK	-ORE	-UNK
-ACK	-AY	-IP	-OT	-Y
-AG	-ELL	-IGHT	-OUT	
-AIL	-EST	-ILL	-OW (HOW, CHOW)	
-AIN	-EW	-IM	-OW (BOW, THROW)	
-AM	-ED	-IN	-OP	
-AN	-EED	-INE	-UCK	
-ANK	-ICK	-OB	-UG	
-AP	-ING	-OCK	-UM	

p. 5 HO

-am

- Ham
- Jam
- **Pram**
- Ram
- Sam
- **Slam**
- Scram

-am

Ham Ambulance

▶ Jam Camera

Pram
Family

Ram Tr<mark>am</mark>poline

Sam Scramble

Slam Sample

Scram Amsterdam

-an

- Can
- Dan
- Jan
- Pan
- **Plan**
- Ram
- Van

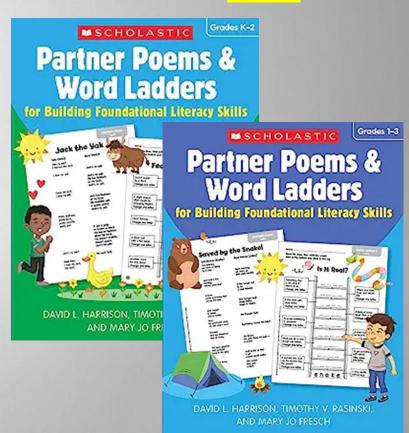
-an

- Can Candle
- Dan Dandy
- Jan Sandal
- Pan Mandolin
- Plan Vanish
- Man Transport
- Van Expandable

Phonics Word Patterns Word Families

BY ADDING A BEGINNING LETTER(S) TO THESE WORD FAMILIES, STUDENTS CAN SPELL AND READ 654 ONE SYLLABLE WORDS!

-AT -UNK -AB -INK -ORE -ACK -AY -IP -OT -ELL -AG -IGHT -OUT -AIL -EST -ILL -OW (HOW, CHOW) -OW (BOW, THROW) -AIN -IM -EW -IN -OP -AM -ED -AN -FFD -INF -UCK -ANK -ICK -OB -UG -AP -ING -OCK -UM



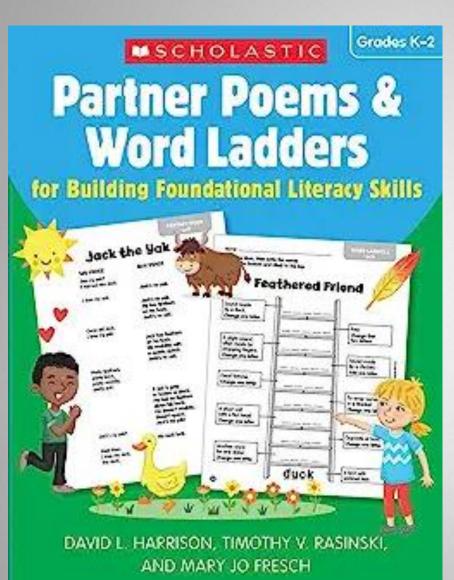
₩SCHOLASTIC

Partner Poems & Word Ladders

for Building Foundational Literacy Skills



DAVID L. HARRISON, TIMOTHY V. RASINSKI, AND MARY JO FRESCH



But what about Vocabulary? Word Meanings

Antonyms

らとハト

Part of Speech & Definition Due Next Fri

Mike Kasinski Read per 1 March 1

VOCABULARY LIST

(R) adroit - adj skillfull & clever Z apprise - V. to notity la. aromatic - ad, having an aroma 14. aspetic-adj self-denying, austere 24. impose-v. to place a burdenon n. one who leads a life of setting is. bayou -1, in Souther marshy inlet or outle Dellicose -adj. quar . W. choleric - adj. exsily (8.) cloister - n. a monest Convent V 9. conjecture - n. 90855 without complete & Is copious -ad | copiou VIX. coquetry-n. agirlorwoman Flirt It cornice - 1. a horizontal molaing projecting along the 13. courageous n. brave Valdebris-1. bits & pieces of Stone, rubbish, etc. 15. decorum - n. whatever 15 Suitable or proper V16. diadem - 1. - Crown, ornamental headband 117. docte-adj. easy to discipline V18. do not on test asserted w/o proof positive or arrogant vs. doleral adj. sad, mournful V20. efface-V. Keep from being noticed, blot out

21. garratous adj talking too much about inconsequential 22. trapped m. hand to hand Struggle, a grip 23. guiden to force onto others 31. melee-n confused general S1. suffuse-v. overspread

hand to hand Aght 32. molten-ad, melted by heat 52. surmount-ad. rise

33. myriad - 1. all, very many persons or things

34. orb. n. globe or sphere

35. ostracism - 1. practicing banishing one

36. pantaloons - n. trousers

37. pariah-n. any outcast person 57. travail-n. hard work formly in India any

38. pathos n. quality of something arousing pity

39. perhous-adj dangerous, involving perit

40. plaintive - adj expressing SUPPOW

41. restive-adj restless, uneasy hard to manage refusing

42. reverse o ahead of thinking of pleasant things 43. roseate-adj. roseate color,

cheerful optimistic 44. rueful - adj sorrowful unhappy causing sorrow

> How adj. having a ckly yellow complexion runic ad bitterly or 1. a learned person

ntentious - ad; 5aying nuch in few words xion-n person who takes ire of a church, rings. ills, arranges burtals mous ad having many irves or turns. @ in-

cairect, un trustworthy (with liquid, dye, etc.)

above @ overcome 53. surplice-n. broad steeved

white gown worn by members of chergy or chair 54. Aylvan adj. Characterstic

of woods, wooded. 55. tableau-n. presentation of a scene by costumed person or group

56. redious -adj firesome boring hackneyed or severe pain

58. undulate - V. to Cause to move by waves

59. vanquish - V. to defeat

60. venerable -ad worthy of respect because of one's dignity etc.

Traditional Word Study-Vocabulary

- 41. restive adj restless uneasy hard to manage refusing 12. reverse on ahead 14. reverse on dreamy thinking of pleasant things 13. roseate adj. roseate color, cheerful optimistic 14. ruelul-adj sorrowful unhappy causing sorrow

- 45. sallow adj. having a
 Sickly yellow complexion
 46. sardonic ad bitterly
 Sarcastic scornful or
 Mocking
 47. savani-9
- n. a learned person
- 3 much in few words









97 AMW





Traditional Word Study-Vocabulary

- 41. restive-adj restless, uneasy hard to manage refusing 42. reverse n. dreamy thinking of pleasant things 43. roseate-adj. roseate color, cheerful optimistic 44. rueful-adj sorrowful unhappy causing sorrow

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- 5 Much in few words

There's Got to be a Better Way to Build Students' Vocabulary

There's Got to be a Better Way More Word Patterns Vocabulary....Morphology

It's all Greek to me!

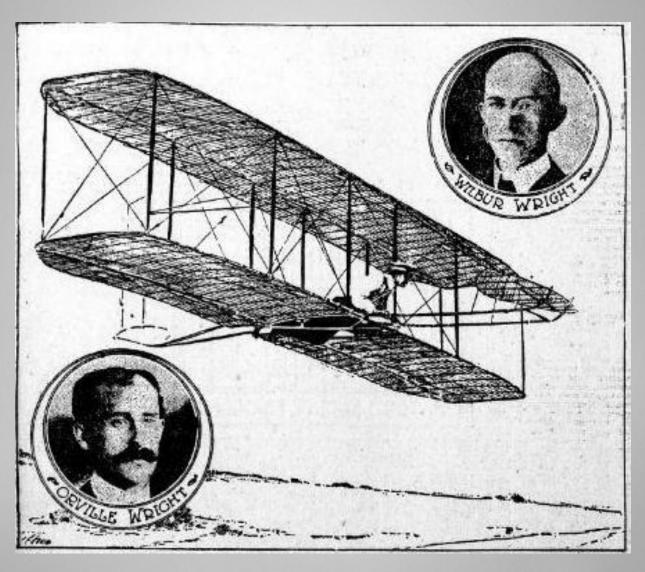


Vocabulary.....

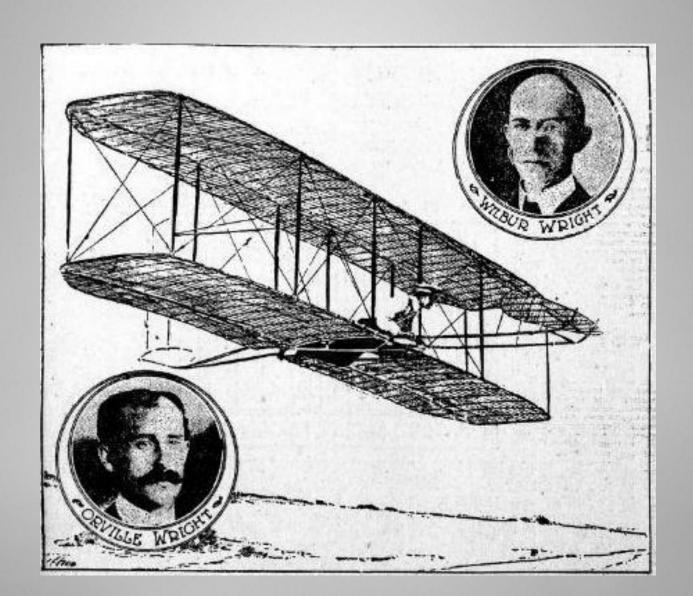
It's all Greek to me!

It should be all Greek (and Latin) if you really want to build students' vocabularies!

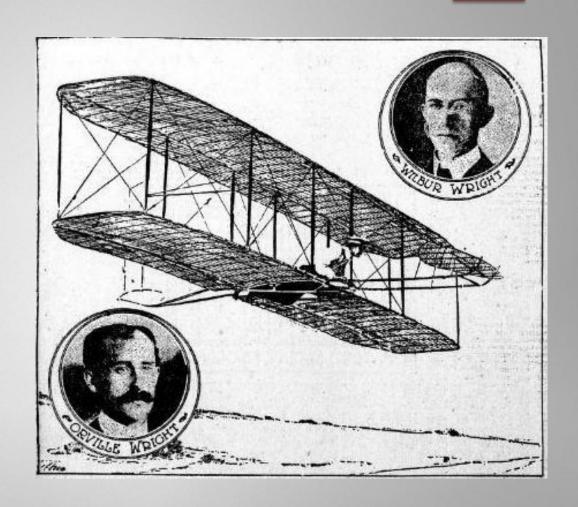
The Wright Brothers!



"biplane" (12 times)



"bip-lane"
"bip-lane"
"bip-lane"
"bip-lane"
"bip-lane"



So Why Latin and Greek Word Roots – Morphemes?

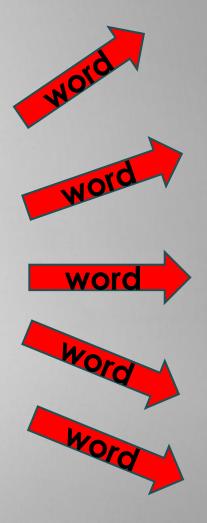
Word Roots are Linguistic Patterns That Represent Meaning as well as Sound

- Uni- 1 Unicycle, Uniform
- Bi- 2 Bicycle, Bifocals
- Tri- 3 Triannual, Triplets
- Quad- 4 Quadrant, Quadraped
- Terra- Land Terrain, Subterranean
- Phil(e) Love Philosopher, Anglophile

Word Roots are Generative!







Bi- Means "2" and Generates

- Bifocals
- Binoculars
- Bilingual
- Biceps
- Bicuspids
- Biannual
- Bipartisan
- Bicameral
- Bicentennial
- Bimonthly
- Bipolar

- Biracial
- Bicycle
- Bisect
- Biped
- Biplane
- Bifurcate
- Bilateral
- Bicolor
- Bigamy
- Bifunctional

Remember Mike's vocabulary list?

One of his words was "conjecture"

conjecture - n. guess, inferring without complete evidence

What if Mike's teacher had chosen to focus on the word root

ject/jet
instead?



"Ject/Jet" means "throw"

eject, jettison



"Ject/Jet" means "throw"

Here are just a few more <u>ject/jet</u> words!

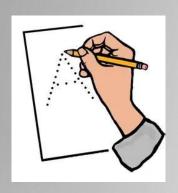
eject, jettison, project, object, reject, abject, subject, adjective, reject, projector, inject, interject, dejected, conjecture, trajectory, projectile, injection,

objective, subjective...

Pan = All of Everything

- Panorama
- Pandemic -Pan + dem
- Panacea
- Pantheon
- Pangea
- Pandemonium Pan + demon
- Pan-American Games
- Pan-Asian
- > Pan-African

TRAC-, TRACT"pull, draw, drag"

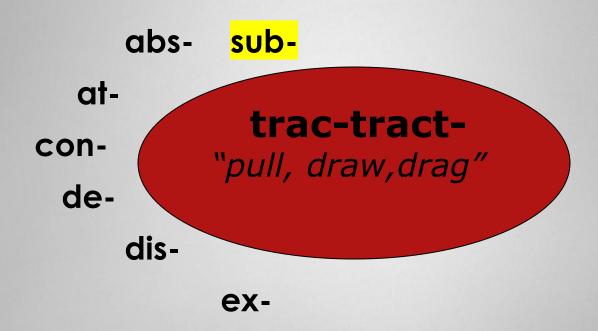


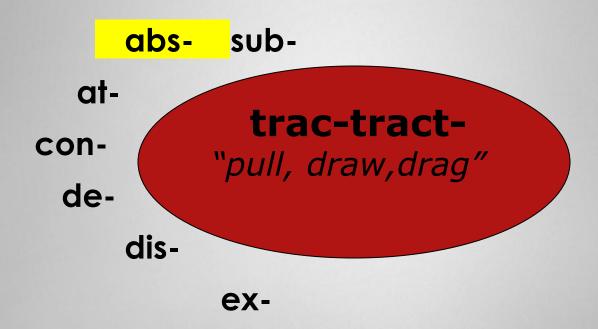
TRACE
TRACTION
TRACTOR

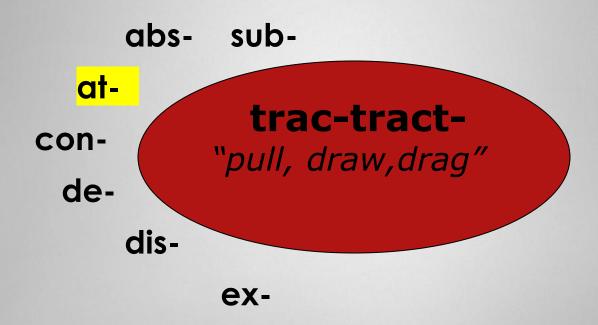


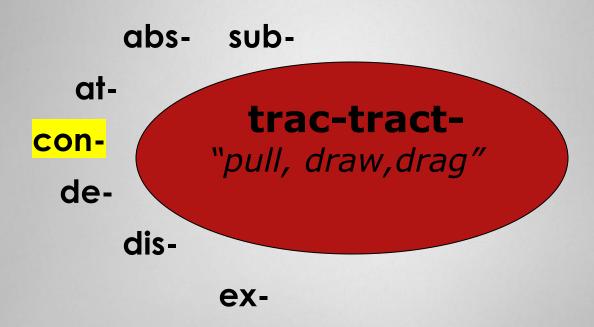


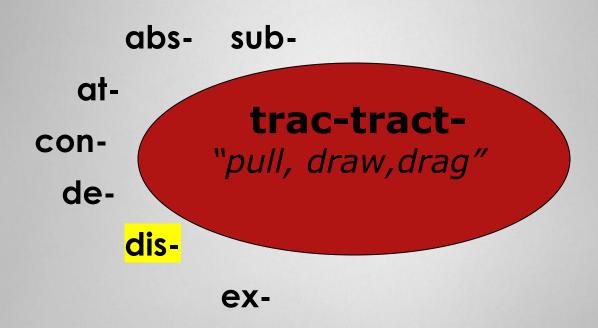


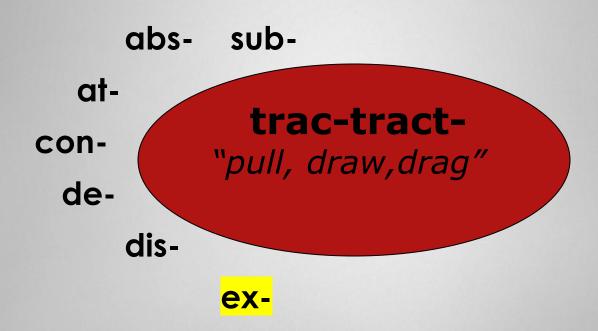












Tract means "Pull, Draw, Drag" and Generates:

- Traction
- Trace
- Tractor
- Retract
- Retraction
- Retractable pen
- Abstract
- Attract
- Attractive
- Attraction

- Distract
- Subtract
- Extract
- Detract
- Contract
- Contractor
- Contraction
- Intractable
- Protractor
- Protracted argument

140+ Word Relatives to Tract

Word Roots Cross <u>Disciplines</u> Disciplinary Literacy



Timothy Shanahan @ReadingShanahan · 4h
What should elementary schools do with disciplinary literacy?
shanahanonliteracy.com/blog/disciplin...



TEACHING AND LEARNING

NAEP: US history, geography scores drop



(Zach Gibson/Getty Images)

US history and geography scores among eighth-grade students have declined since 2014, while civics scores remained steady, according to results released Thursday by the National Assessment of Educational Progress, also known as the Nation's Report Card. Joel Breakstone, director of the Stanford History Education Group at Stanford University, asserts the history

scores show that it is "under-prioritized," compared with other subjects.

Full Story: Education Dive (4/23), Education Week (tiered subscription model) (4/23)



Why Word Roots? Roots find their way into Academic Vocabulary

Upwards of 90% of <u>academic</u> and research related words are derive from Latin and Greek.

MATH	SCIENCE	SOCIAL STUDIES
tangent	neonatal	Congress
secant	hematologist	segregation
diameter	pandemic	democracy
circumference	hydrophobia	polytheism
centigrade	vertigo	philanthropy
parallel	synchronize	secession
demographics	anemia	conservative
kilogram	excision	controversial
subtract	specimen	rebellion
quadrangle	transfusion	mobility
polygon	endemic	consensus
demometrics	extraction	native
guarter	neonatal	pacifism

MATH	SCIENCE	SOCIAL STUDIES
tangent	neonatal	Congress
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diameter	pandemic	<u>democracy</u>
circumference	hydrophobia	polytheism
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polygon	endemic	consensus
demometrics	extraction	native
quarter	neonatal	pacifism [

MATH	SCIENCE	SOCIAL STUDIES
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quadrangle	transfusion	mobility
polygon	endemic	consensus
demometrics	extraction	native para
quarter	neonatal	pacifism

MATH SCIENCE SOCIAL STUDIES

tangent secant diameter circumference centigrade parallel demographics kilogram subtract quadrangle polygon demometrics quarter

neonatal hematologist **pandemic** hydrophobia vertigo synchronize anemia excision specimen transfusion endemic extraction

Congress segregation democracy polytheism philanthropy secession conservative controversial rebellion mobility consensus native

pacifism

Building Vocabulary from Word Roots

neonatal

SOCIAL STUDIES MATH SCIENCE tangent neonatal Congress hematologist secant diameter **pandemic** hydrophobia circumference centigrade vertigo parallel synchronize demographics anemia kilogram excision subtract specimen

transfusion

endemic

neonatal

extraction

segregation democracy polytheism philanthropy secession conservative controversial rebellion mobility consensus native

pacifism

Building Vocabulary from Word Roots

quadrangle

demometrics '

polygon

quarter

MATH SCIENCE SOCIAL STUDIES

tangent
secant
diameter
circumference
centigrade
parallel
demographics

demographic kilogram subtract quadrangle polygon demometrics

quarter

neonatal hematologist pan<u>dem</u>ic hydrophobia

vertigo
synchronize
anemia
excision
specimen
transfusion
endemic
extraction

neonatal

Congress segregation democracy polytheism philanthropy secession conservative controversial rebellion mobility consensus

native pacifism

едиторіа



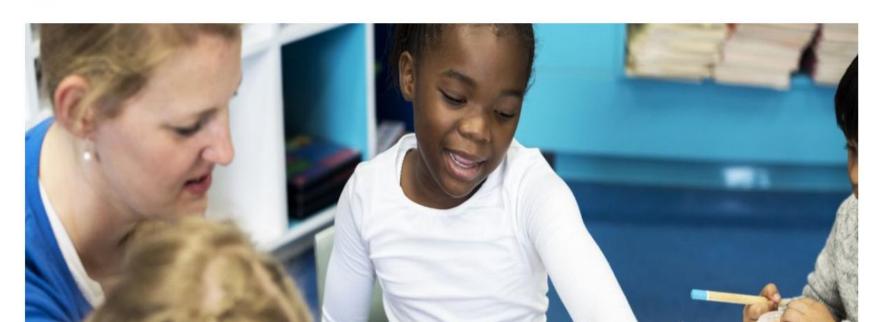
LITERACY

3 Literacy Practices That Work

A literacy researcher shares three practices that are proven to be effective for early elementary learners.

By Nell K. Duke

November 6, 2017



1. Morphology Instruction

Morphemes are the smallest meaning-carrying units in language. In *reworked*, for example, there are three morphemes: *re-* meaning "again," *work* meaning "purposeful effort," and *-ed* signaling the past. Research indicates that morphology instruction fosters decoding, spelling, and vocabulary development (Goodwin & Ahn, 2013).

Teaching the months of the fixes (prefixes and suffixes) and root words is a fairly widespread (are respectively practice, but morphology instruction goes

well beyond this. Student described to be tauthed by morphemes, playing the as they meaning or build a word such as cupcake, skateboard and move to more sophisticated with composite research by Bauman and colleagues, Good suggest a strategy called PQRST:

se words word's und words ents can ed on 465)



READING & LITERACY

What Is Morphology? Should Teachers Include It in Reading Instruction?



By Sarah Schwartz — November 22, 2023 (8 min read

The complexity of words only increases from there. In a recent analysis of 1,200 children's books designed for ages 7 and up found over 100,000 unique words—most of which included multiple morphemes. "If you know something about morphology, it dramatically lessens the learning load of learning new words..."

What Does the Research Say?

A study of 111 middle grade students in an urban California school district found that...

"Students with greater understanding of morphology

Kieffer, M.J. & Lesaux, N. K. (2007). "Breaking down words to build meaning: Morphology, vocabulary and reading comprehension in the urban classroom.

The Reading Teacher 61(2), pp. 134-144.

What Does the Research Say?

A study of 111 middle grade students in an urban California school district found that...

"Students with greater understanding of morphology also have higher reading comprehension scores..."

Kieffer, M.J. & Lesaux, N. K. (2007). "Breaking down words to build meaning: Morphology, vocabulary and reading comprehension in the urban classroom.

The Reading Teacher 61(2), pp. 134-144.

So Where to Start

So Where to Start

Choose 1-2 Roots Per Week

So Where to Start

Choose 1-2 Roots Per Week (April 22)

- **Earth Day**
 - Geo-
 - Terra-



Geo...

- Geometry
- Geography, Geographic
- Geology
- Geothermal
- Geodesic
- Geocentric
- Geocyclic
- > Geo-ecomics
- Pangea



Terr(a) = Earth/Land

- **►** <u>Terra</u>in
- **►** <u>Territory</u>
- ► Terrace
- <u>Terrarium</u>
- Terrazzo
- ▶ <u>Terra</u> Cotta
- Subterranean

- **Extraterrestrial**
- Mediterranean
- Terre Haute, Indiana
- **Terrier**



Terr(a) = Earth/Land

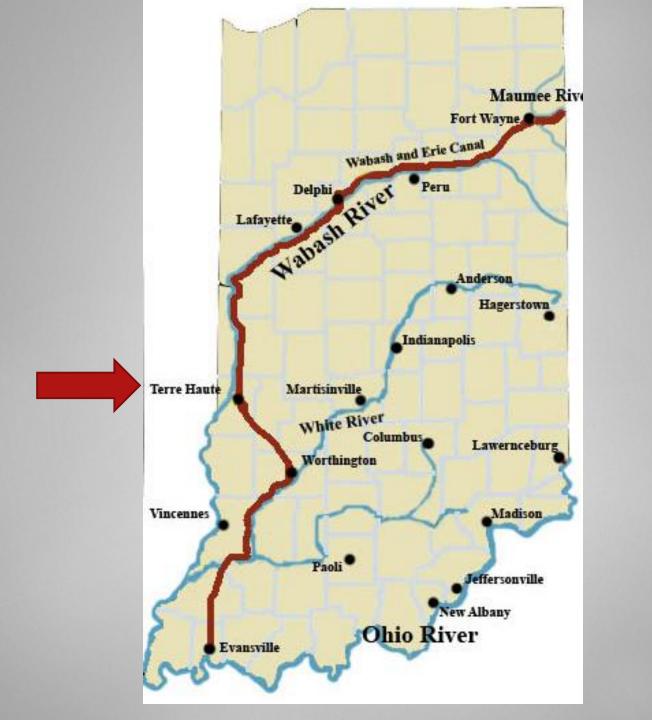
- **Terrain**
- ► <u>Territory</u>
- > <u>Terra</u>ce
- **Terrarium**
- **Terrazzo**
- Terra Cotta
- Sub<u>terra</u>nean
- <u>Terre</u> Haute

- Extraterrestrial
- Medi<u>terra</u>nean
 - <u>Terrier</u>



Terre Haute?

Terre = High + Haute = High



Lumbricus Terrestis ?

Scientific name for an earth worm.



Labor Day!

► Labor = Work



Labor Day!

- Labor = Work
 - Laboratory
 - Laborious
 - **Belabor**
 - Laborer
 - Collaborate
 - Elaborate



Fathers' Day Pater/Patr-

Fathers' Day Pater-/Patr-

- Paternal
- Paternalistic
- Paternity
- Patriarch
- Patrician
- Patron
- Patronize
- Padre



Fathers' Day Pater-/Patr-

- Paternal
- Paternalistic
- Paternity
- Patriarch
- Patrician
- Patron
- Patronize
- Padre



Patriot – Lover of the Homeland or "Fatherland"

Ask Students to Notice Roots

GN goes greener, pumping S6M into electric bus builder Proterra

By Bircht Shawely DISA TODAY

DETROIT - General Motors venture electric tensir bas

electrification of the automobile."

million injection of cash led by Silacon Valley ventore capital firm (Geiner Per-) preproduction versions of the bas. kins Caufield & Byers.

give the big vehicle a 40 mile range on - of a diese: hybrid. a full charge. More surprisingly, left

Comato, president of Prototra, says the Instead a year ago to give the automakcharge the busing results minutes.

capital acts will invest \$6 online in lightweight composites in averaging the business, and the way we do that is Protectia a company developing are up to 24 mpg diesel equivalent in test- we make equity investments in stort ing about six times more than a typical inpicompanies that are developing Jon another, president of GM Ven-diesel bus. Three are being tested by mext-generation, automotive-related tures, says the financing for Protonal Football francia in West Covina, Cilif Technology Lauchuer says. "demonstrates our commutation to the Protects caps two other transit systems The money from GM is part or a \$30. Tabassee, and VIA Memopolitization Sain is objective sments. Aatonio – also bave agreed to rest

Protecte's Ecologie BE 35 all electric drive and maintain Protecte's bases. Lauckness ass. bus has lithium-ion battery packs that cover their libespan is comparable to that

- CM-created CN: Ventures with \$100 - Preci

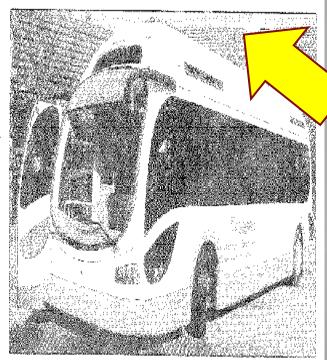
company's fast-charge system can re- or an edge in new green technologies.

"We are making investments in text-The BE-35, which had a body made of indegry to Eupport Casts core automo-

So far CM has invested \$36 million. - Star Vertro, the transit system for Tal- and has reviewed dione than 350 pos-

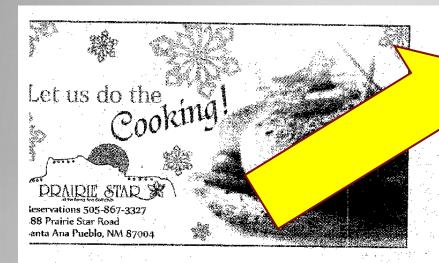
"We have a couple of more than are closing in the very new future, which Granato says the cost to purchase," will bound that figure a fair uniounce

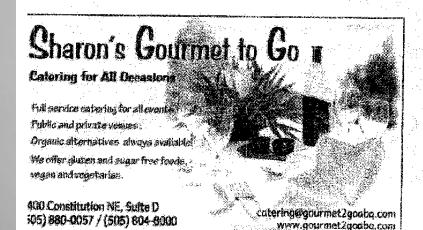
Snavely also reports for the Detroit Dec

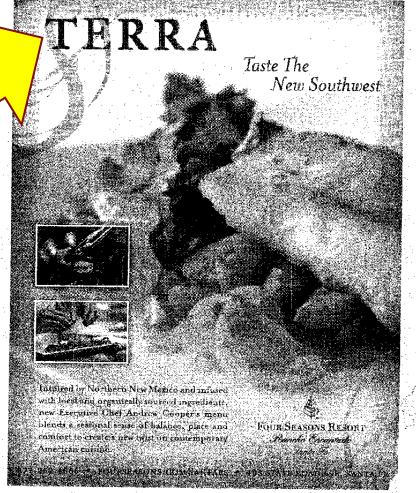


Fact work: Proteirs as Exhibite 22, 35 bus connectiongs in about 10 inhibites.

Noticing









Noticing - Extremophiles

Monday, March 18, 2013 | A5

U.S. NEWS

Life Discovered in the Deepest Ocean

! JONATHAN D. ROCKOFF

Researchers probing the epest ocean have found a surisingly high concentration of icrobes, the latest evidence of ganisms thriving in inhospitae environments that is reshapg scientists' understanding of e conditions necessary for life. The bacteria were found arly 6.8 miles below sea level. the floor of the Pacific ean's Mariana Trench, accor g to the researchers. idings were publish nday by the jou escience. No li rt of the nperatu gree

fine project.

Are expected fine dicrobes, Dr. Glud dthe sence of so much actity was a surprise.

At such depths, little is left of the plant matter on the ocean surface that, as a drifts downward, sustains in other ocean life. Filmin Cameron, who last is a submersible to Mariana Transterile, place."

other on temperatures, other conditions of life. In February, were found a half-mile the Antarctic ice, thriving thout sunlight. Previously, jellyfish and tubeworms were discovered near underwater chimneys that heat the surrounding water to 635 degrees Fahrenheit.

"Nobody realized there is so much biodiversity," said Anna-Louise Reysenbach, a microbiologist at Portland State University's Center for Life in Extreme

Extremophiles

Extremophiles are organisms that can thrive in harsh conditions. Researchers have found life in a number of unlikely environments:

- Inside deep-water ocean vents, despite high temperatures and lack of sunlight
- Under the Antarctic ice sheet, where bacteria appear to have been living for millions of years
- Inside rocks in Yellowstone National Park's hot springs

Environments who wasn't affiliated with the study. Discovery of life in unexpected places, she said, "helps inform us what is possible elsewhere in the solar system."

The team led by Dr. Glud, of the University of Southern Denmark, probed the sediments of the Mariana Trench in late 2010. The scientists dropped a submersible outfitted with sensors

- ♦ A foot below the surface of Chile's Atacama Desert, one of the driest places on Earth
- Nearly seven miles below sea level in the Pacific Ocean's Mariana Trench

Sources: National Science Foundation, Nature Geoscience

to gauge oxygen levels, a way to measure how much microbes were eating and digesting of the scraps of food left in the soil. The submersible also collected sediment samples from the trench floor and took hours of video footage.

The researchers explored the deepest part of the Mariana Trench, an area called the Challenger Deep. In addition to bac-

teria, the probes turned up single-cell organisms called archaea, said Dr. Glud. His team is now sequencing the DNA of these organisms to gain an understanding of how they can live at such depths, he said.

Both kinds of microbes, Dr. Glud said, were feeding on the remnants of algae and other plants that hadn't been gobbled up by other sea creatures during the descent to the ocean floor. That process helps turn such matter into carbon dioxide, which is important in keeping the planet's oxygen level up.

A shallower part of the ocean, about four miles below sea level, had less than half as much microbial activity, the researchers found. That suggests the geography of Challenger Deep made it a landing spot for more organic matter than other deep parts of the ocean, perhaps because it is so far down and maybe because mudslides helped ferry the matter to the spot.

7

Noticing - Extremophiles

ered in the Dec

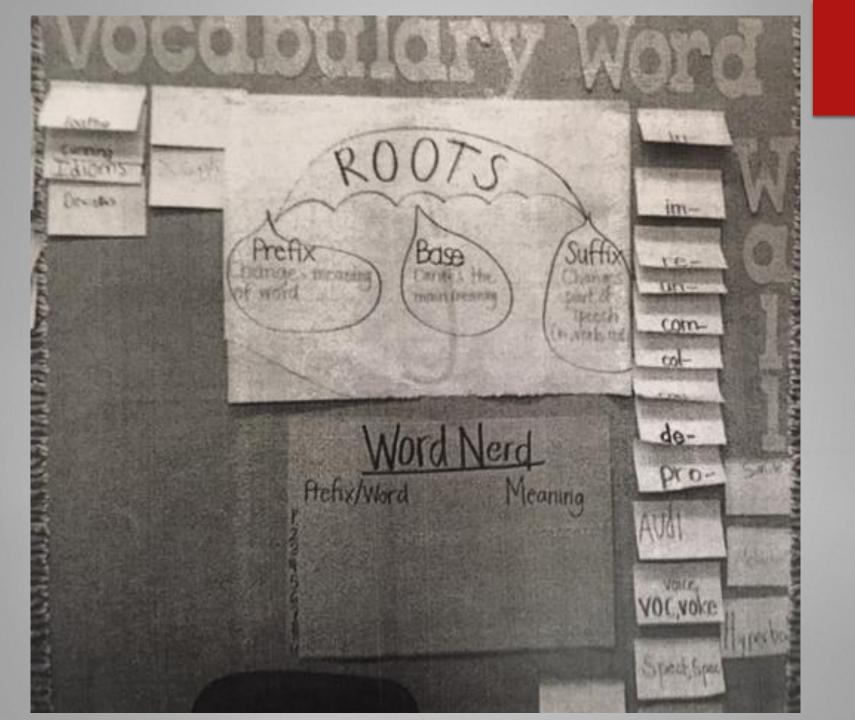
little is left of on the ocean drifts down sh and naker

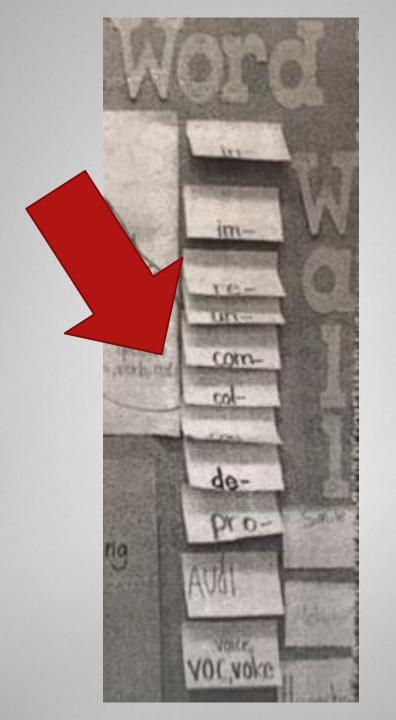
Extremophiles

Extremophiles are organisms that can thrive in ha Researchers have found life in a number of unlikel

A Latin-Greek Roots Word Wall!

Atterior-near-the front AMebellium - A certod before war Attetype - An earlier form. Antecedent - A preceding occurrence or cause or Antecessor-A person who ques before WOSHfostmark—a mark made by lastamp after received At the post office POSTPONE - to got off to A later date, to not do At post-homous - happening after death post-script - A role written after A letter is LOCHTELD) Postmeridian - happening After Incon





Sub - means under Subway-travel underground Substitute - Work under another person's plans Subtract-pull #'s under sea under the Substance - Underlies Submit - to send under

Then What?

The Instructional Routine: (10 minutes per day)

- Day 1:Meet the Root (Demonstration)
 Teacher introduces root with discussion & Word Spokes activity.
- Day 2: Divide and Conquer (Guided Practice) Teacher helps students dissect words to unlock meaning.
- Day 3: Read and Reason (Independent reading and writing practice in context)
 Students read passages with root words in context.
- Days 4-5: Combine & Create/ Extend & Explore Students engage with academic phrases & multiple forms of words in quick & enjoyable activities!

Tuesday – Divide and Conquer

Second Graders and Roots! Divide and Conquer

	Divide and Conqu	ier
P +	Base	Meaning
2. Uni	Corn	one horn
2. <u>Uni</u>	aye	one of a Kide
3. Uni	form	one par of Cio
4. Uni	Cycle	one wheel
5.		
6.	and an additional designation and the state of the state	
7		
	Odd Word Out	
unifor	<u> </u>	(unique)
Unitaria	15	

Second Graders and Roots!



Divide and Conquer

.tin

3.

4.

5.

6. _____

Base

Control of the contro

Meaning

Three Constitutions of the Constitution of the

Wednesday Read/Write in Context

60	ROOT OF THE WEEK	Wa /		
All Sand	Meaning	WU		
	s: Please find at least of			
week. Pleas paste it dow	e write down the entir n below. (If you would	e sentence that I like to find mo	you find it in or ore than one wo	r cut and rd, that
would be gre	eat.) You can use book	s, newspapers	and magazines.	
			1 11	
MV	frier	10 15	6/1	11949
Che	Sheek	Fn	91151	nand
5110	10:10:10	5 211	11,0	1 -1 -1 -1
200	Mish.			
	A	~ N	MC.	
	Av	160	X	1
	111	3/02	11	1
		NA	1	Ia.
	1 1 2 2 4 4		Chy	10
			111	

Thursday Word Sorts and More

Compine and Create

	Word Bank	
unlock	<u> Чп шГар</u>	
untalk	<u>unnew</u>	100
unsafe	Unstop	

Makes a Word

Unlock

UnSafe

UnWrap

Does Not Make a Word
Untalk
Unnew
UnStop

Friday – Go for the Gold! Word Games or Assessment

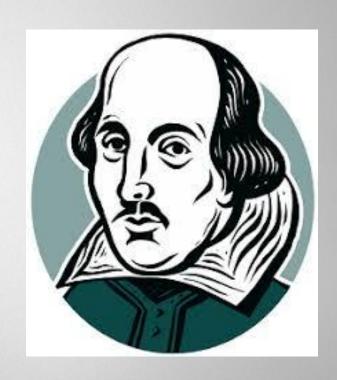
	WORDO	
un loct.	Unfinished	undone
ando	Unsafe	Unusual P.

w	0	R	D

o. 7 HO Also timrasinski.com Resources

But Wait! There's more you can do with word roots.

Be the Bard!



Intaxication

The Washington Post

Euphoria at getting a tax refund, which lasts until you realize it was your money to start with!

Cashtration

The Washington Post

The act of buying or building a house, which renders the subject financially impotent for an indefinite period of time.

Inoculatte

The Washington Post

To take coffee intravenously when you are running late!

Autophile

- Car keys
- Mirror
- Wallet full of money

Autophile

- > Auto = self
- Phil/phile = love



Matermand

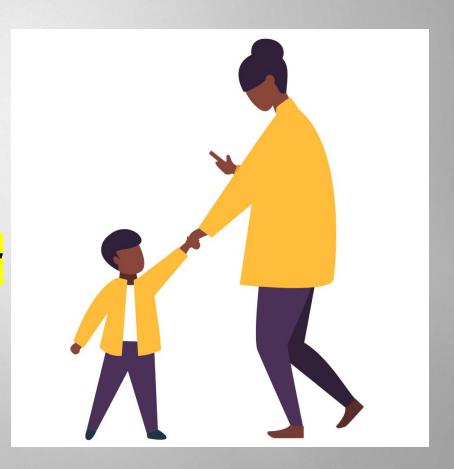
- Matermand
 - Mater = mother

Mand = order

- Matermand
 - Mater = mother
 - Maternal, matriarch, matron
 - Mand = order
 - Com<u>mand</u>, de<u>mand</u>, repri<u>mand</u> mandate, mandatory

- Matermand
 - Mater = mother
 - Mand = order

A mother's order





Distr

P

Petoskey High School

Our School Calendar Our Staff Media Center Athletics Counseling

Counseling Mental Health Schools

Q



Be the Bard



Its all Greek to PHS class CIPACIONS TO A-1-1" than it would have been had the

BY RYAN BENTLEY NEWS-REVIEW STAFF WRITER

Whether they're supervising a class in the regular instructor's absence or governing a heavily-populated state following a career in action films, rulers provided inspiration for some of the top entries in the third annual word-coining contest organized by a Petoskey High School teacher.

Ralph Tramontini asked students in his Greek and Latin derivatives class in recent weeks to create some new words by putting together some of the hundreds of Greek roots they've learned in the first few weeks of class.

The 21 juniors and seniors were asked to create five words and display them with definitions on posters. Then, the class nominated a favorite from each student's poster, and cast their votes to decide the top three entries in the class.

Junior Eric Shaw won first place for the noun "pseudomacropedigynacrat." It combines the roots "pseudo," meaning false; "macro," meaning large; "ped," meaning child; "gyn," meaning woman; and "crat," meaning one who rules.

His definition for this noun was " a large, fake woman ruler of kids; a high school substitute teacher."

"I was just looking through the roots and put them together," he said, adding that the resulting combination made him think of substitute instructors.

The third-place entry, submitted by senior Caleb Wojcik, was "megalomyocrat." A noun, this word combines roots "megalo," meaning large; "myo," meaning muscles; and "crat," meaning one who rules.

Caleb's stated definition was "one who rules with large muscles (i.e., Arnold Schwarzenegger)."

He noted that the word was created around the time of the Oct. 7 recall election in which California voters ousted Democratic Gov. Gray Davis and replaced him with the Austrianborn Republican and film star.

"I just saw the roots for muscle and big, and thought of Arnold Schwarzenegger," Caleb said.

Though neologism entries tended to be lighthearted, one of senior Laura Hawkins' submissions — which took second place — suggested that the contest wasn't painless.

By combining the Greek rootsned. meaning "new," log, meaning "word" and "algia," meaning "pain," Laura created the noun "neologalgia." Her definitions for the term included "pain caused by the invention of new words" and "a set of symptoms which includes stiffness in the tack and loss of feeling in the feet, often accompanied by sleep deprivation or insomnia."

Working late one night on the word-coining assignment likely influenced Laura's choice of entries.

"I was just so tired at the time" she said. "It was at 1 in the morning, I think.

"Sometimes, you're most crative

Birth of a word

The following are samples of the words and definitions which students in a Petoskey High School word derivatives class recently created from Greek roots for a contest:

PSEUDOPHILOPOLIODEM (noun): the false love of city people; for example, when a rural community is overrun by people from an urban area, and the people of the rural area have a false love of the urban area for business purposes;

COTYLCRANICALIC (adjective): being physically attractive, but empty-head-

GYNOSOMATOPOLIST (noun): an agent

ERYTHROSAUROCHRYSE-

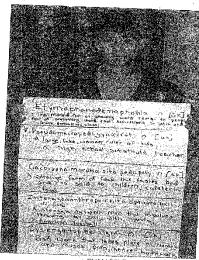
MOSCHIZOGLOTTOLATRY (noun): the worship of red lizards with gold blood and cleaved tongues.

when you're so tired."

The top contest entrants, who received extra-credit points, generally agreed that the word-coining assignment was a fun change of pace from other classwork.

Tramontini said the intent behind the assignment is to give students an enjoyable way to apply their knowledge of Greek word root origins and prepare for the exam covering that part of the class.

"It's fun," he said. "We end up talking about everything under the sun, rred dray can be contacted at 439-9374, or fgray@petoskeynews.com.



RYAN BENTLEY/NEWS-REVIEW

Petoskey High School junior Eric Show displays a poster listing the five new words he created for a contest in Ralph Tramontini's Greek and Latin derivatives class. Eric received first place for the word "pseudomacropedigynacrat," a noun meaning "a large, fake woman ruler of kids; a high school substitute teacher."

because the Greeks had a word for it." The Greek and Latin derivatives class, now in its third year, is intended to help juniors and seniors expand their vocabulary skills for use in higher education and the working world, he added.

Ryan Bentley can be contacted at 439-9342, or rbentley@petaskeynews.com

Psuedophilopolisodem?

Psuedophilopolisodem?

Psuedo - False

Phil(o) - Love

Polis - City

Dem - People

Psuedophilopolisodem?

Psuedo - False

Phil(o) - Love

Polis - City

Dem - People

False love of people who live in cities.
Brown County State Park or Indiana Dunes?

You Be the Bard Combine and Create: Invent a Word!

Ante- (before)

Anti- (against)

Inter-

Uni-

Bi-

Tri-

Re-

Pan- (all)

Pre-

Circum-

Semi- (half)

Aqua

Aud (Hear)

Bene (Good)

Cent (100)

Dem (People)

Dent (Teeth)

Mater

Pater

Phil(e) (Love)

Polis (City)

Psuedo

Terr(a) (Earth/Land)

-er/or

-ery

-ful

-ness

-ology

-ologist



Word Roots Develops Students' Curiosity About Words

Did You Know? Dec = 10

Decade, Decathalon, Decimal, December, Decade, Decagon, Decimate

Did You Know? Dec = 10

Decade, Decathlon, Decimal, December, Decade, Decagon, Decimate

December?

Did You Know? Dec = 10

Decade, Decathalon, Decimal, December, Decade, Decagon, Decimate

Decimation

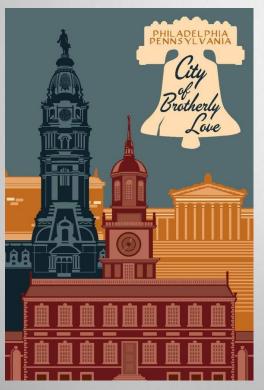
Today, the words **decimate/decimation** mean to destroy or hurt something gravely. However, the original meaning of **decimate** shows us that ten was an essential word root. **Decimate** and **ten** harken back to a brutal practice of the army of ancient Rome. A unit that was guilty of a severe crime (such as mutiny) was punished by selecting and executing one of every ten of its soldiers, thereby frightening the remaining soldiers into obedience.

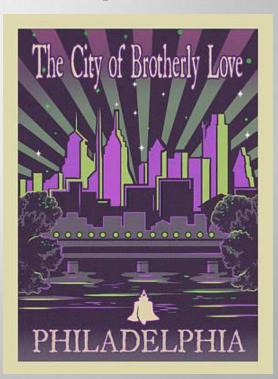
Clip Art Roman Legion , Fr

Did You Know? How Philadelphia Got its Name?

Did You Know? How Philadelphia Got its Name?

Phil = Love + Adelphos = Brother





Latin- Greek Roots

Putting it all Together to Creating a Curriculum

www.timrasinski.com

EDUCATION WEEK

Published Caline: April 12, 2016

rublished in Print: April 13, 2016, as Can Latin Build Young Vocabularies?

Can Latin Help Younger Students Build Vocabulary?

By Liana Heitin

Fairfay Va.

With students gone for the day, 6th grade teachers Joy Ford and Ryan Rusk sat in a classroom discussing the Latin root *temp*.

After determining that "contemporary" and "temporary" share the root, which refers to time, the two Woodlawn Elementary teachers then turned to the word "temptation."

"I'm tempted to eat this chocolate," said Ford. "That doesn't have to do with time."

"But if I'm tempted, I want it now," responded Rusk. "So could it?"

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THE LATIN-GREEK CONNECTION

Building Vocabulary Through Morphological Study

Timothy V. Rasinski Nancy Padak Joanna Newton Evangeline Newton

Using Latin and Greek word roots to teach multiple words is a more efficient approach than the traditional vocabulary instruction of teaching words as single entities.

www.timrasinski.com

Human Development [NICHD], 2000). Studies and reviews of research over the past three decades have shown that the size and depth of elementary students' vocabulary is associated with proficiency in reading comprehension and that instruction to increase readers' vocabulary results in higher levels of reading comprehension (e.g., Baumann et al., 2002; Beck, Perfetti, & McKeown, 1982; Kame'enui, Carnine, & Freschi, 1982; Stahl & Fairbanks, 1986).

Yet despite the promise of vocabulary instruction to improve elementary students' reading, consensus

attempts to address this situation by making the case for a very productive, efficient, and engaging approach to vocabulary and the study of words.

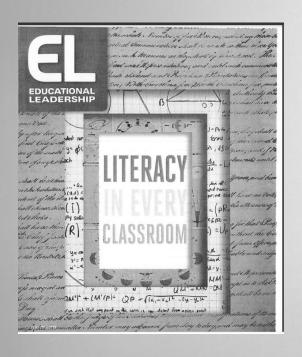
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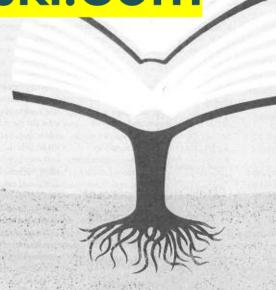
paches to base and

Focus on Meaningful Word Patterns

For young children, the development of morphological awareness is an integral component of word learning. Biemiller and Slonim (2001) determined that children acquire about 600 root word meanings per year from infancy to the end of elementary school. In a comprehensive review of 16 studies analyzing the effect of instruction in morphological awareness on

www.timrasinski.com





THE ROOTS OF COMPREHENSION

Studying Latin and Greek word origins makes vocabulary instruction resonate.

Timothy Rasinski, Nancy Padak, and Joanna Newton

esearch going back seven decades demonstrates that vocabulary knowledge is strongly associated with proficiency in reading comprehension. Large vocabularies lead to better reading performance (Baumann et al., 2002; Davis, 1944). Amazingly, more than 80 percent of students'

4th, 8th, and 12th grade students' vocabulary development shows that at all three grade levels, U.S. students have demonstrated no improvement at all in their vocabulary knowledge since 2009 (National Center for Education Statistics, 2015)

According to vocabulary scholar Margaret McKeown, very little vocabas painful and meaningless: weekly word lists and quizzes. Students may memorize words, spellings, and definitions, but these are quickly forgotten. The result of either approach—benign neglect or rote memorization—is stagnation in our students' vocabulary knowledge.

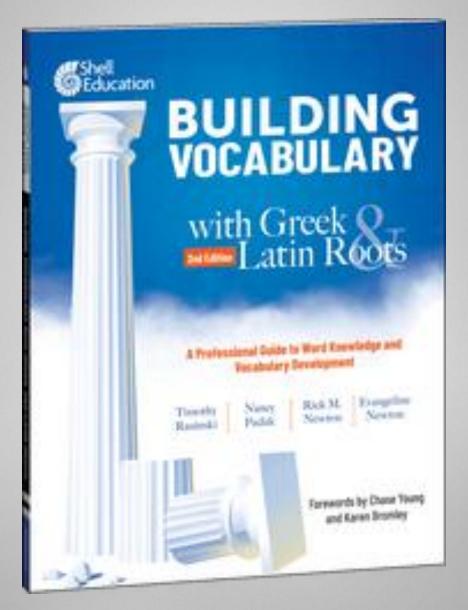
Chapter 1

Getting to the Root of Word Study: Teaching Latin and Greek Word Roots in Elementary and Middle Grades

Nancy Padak, Evangeline Newton, Timothy Rasinski, and Rick M. Newton

ach Monday morning, Joanna Newton introduces her grade 2 students to a new word root. After a short discussion about the root, she tapes a sheet of butcher block paper to a counter, writes the root at the top, and places a bowl of markers next to it. Her students spend the next few days on the lookout for words that use the root. They know words from the root can appear when they read, listen, or talk to each other. They also know how to explore for new words in dictionaries and on the Internet. Each time they discover a word that fits, Joanna's students write it on the chart paper, always initialing the entry. On Friday morning, Joanna's class assembles to review the collected words. Each student explains where he or she found the word, what it means, and how

2nd Edition – 2020



Timothy Rasinski

Home Products Blog Resources

Professional Development

 Study Guide for Building Vocabulary with Greek and Latin Roots, (2nd Edition)-Tim Rasinski, Nancy Padak, Rick M. Newton, Evangeline Newton

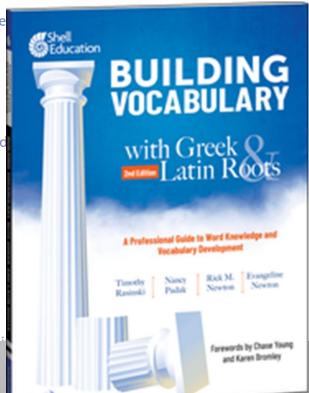
- Tim Rasinski's Handouts for Professional Development: From Phonics to Flue
- Building Vocabulary Professional Development Video
- Tools to Teach Academic Vocabulary Webinar

Research

- Building Vocabulary Pilot Research Report
- The Latin-Greek Connection Building Vocabulary through Morphological Stud
- Building Vocabulary White Paper
- Building Vocabulary Frequently Asked Questions

Articles

- A Little Latin and a Whole Lot of English
- Building Vocabulary in Summer School
- The Art and Science of Teaching Reading
- Fast Start The Effects of Fast Start Reading
- · Fast Start Getting Parents and Children Off to a Strong Start in Reading
- Foot Chart A 2 Vacy Chudy of a Cobaal Basad Davantal Invaluament Dyagram



Does it Work? Science of Reading "In the Trenches"

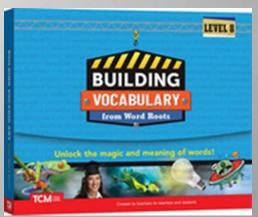
I attribute our success with the new standards (which mirror the Common Core) to our preparation with Greek and Latin word parts! Each grade level on the State test had questions regarding word parts (roots and affixes). Every school in our district met the reading **Annual Measurable Objectives (VERY** hard to do).

Dr. Nancy Guth

Supervisor of Literacy and Humanities
 Stafford County Public Schools
 Stafford, VA

Alan Becker – ELA Supervisor, North Carolina

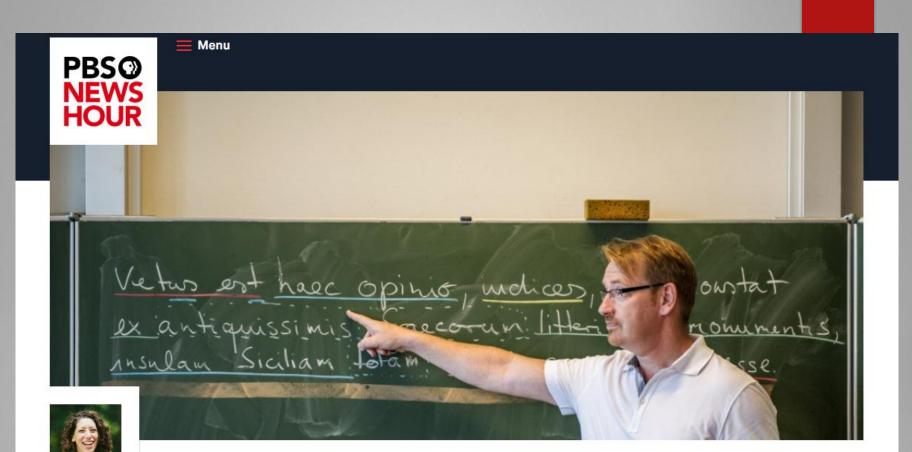
Out of twenty elementary schools in the district my ELA classrooms produced the highest reading comprehension growth in the county according to the results of our statewide end-of-grade test.



"I LOVE LOVE LOVE the Building Vocabulary curriculum. I have been looking for a systematic instructional system for years to teach vocabulary and this was great! The students learned a lot and most of the information was retained and transferred."

- -Summer School Instructor. 2022
- School District of Palm Beach County





By – Liana Heitin, Education Week

Can Latin help younger students build vocabulary?

Leave your

Education Apr 19, 2016 4:26 PM EST

Can Latin help younger students build vocabulary?

Education Apr 19, 2016 4:26 PM EST

Between 2014 and 2015 Woodlawn School saw increases in its standardized test scores for reading, particularly at the grade in which most teachers were using Latin and Greek roots.

(The percentage of 4th graders passing went up by 28% and for 5th grade it rose 19%)

Review of Educational Research June 2010, Vol. 80, No. 2, pp. 144–179 DOI: 10.3102/0034654309359353 © 2010 AERA. http://rer.aera.net



The Effects of Morphological Instruction on Literacy Skills: A Systematic Review of the Literature

Peter N. Bowers and John R. Kirby

Queen's University

S. Hélène Deacon

Dalhousie University

The authors reviewed all peer-reviewed studies with participants from preschool to Grade 8 for this meta-analysis of morphological interventions. They identified 22 applicable studies. Instructional effects (Cohen's d) were averaged by linguistic outcome categories (morphological sublexical, nonmorphological sublexical, lexical, and supralexical) and comparison group (experimental group vs. control or experimental group vs. alternative training). The authors investigated the effects of morphological instruction (a) on reading, spelling, vocabulary, and morphological skills, (b) for less able readers versus undifferentiated samples, (c) for younger versus older students, and (d) in combination with instruction of other literacy skills or in isolation. Results indicate that (a) morphological instruction benefits learn-

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- b) It brings particular benefits for less able readers

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- b) It brings particular benefits for less able readers
- c) It is no less effective for younger students

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- a) Morphological instruction benefits all learners.
- b) It brings particular benefits for less able readers
- c) It is no less effective for younger students
- d) It is more effective when combined with other areas of instruction (Social Studies, Science...)

Review of Educational Researc June 2010, Vol. 80, No. 2, pp. 144-17 DOI: 10.3102/003465430935935 © 2010 AERA, http://rev.aera.ne

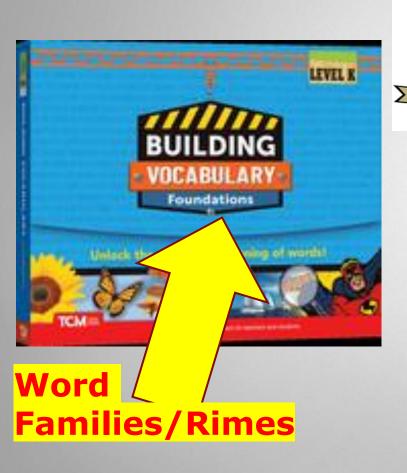
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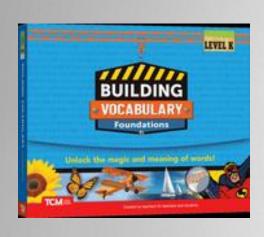
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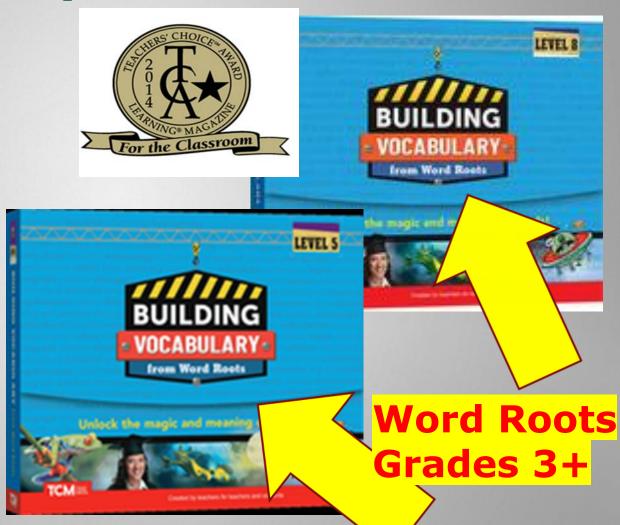
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Building Vocabulary (2nd ed) (tcmpub.com)

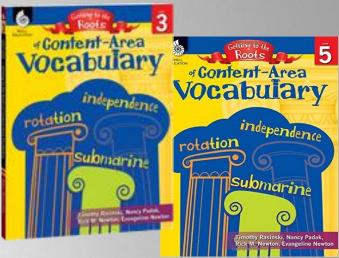


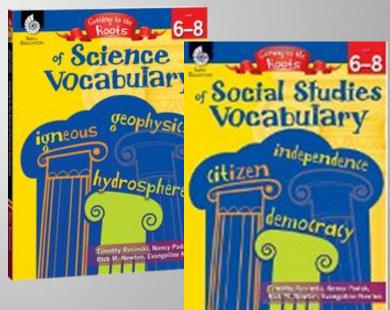


Specialized Student Resources









trasinsk@kent.edu Morphology Monday



Tim Rasinski

627 Tweets



Tim Rasinski @TimRasinski1 · Apr 22 1 of 3 Apr 22. Happy Earth Day!

Here's a quick Word Roots Vocab Lesson for Earth Day

Pls RETWEET for others parents & teachers to use. Thanks.

To Print: Click on Image then Copy & Paste to a word doc.

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A Word Roots Lesson for Earth Day - Terr(a)

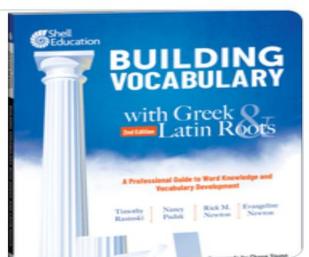
On April 22rd, the whole world comes together to celebrate the planet Earth. word umay already know that many familiar "earth" words come to us from the Latin base terr, which means "land, ground, earth." But did you know that terr often occurs in words that name geographical places? Here's how the Mediterramean Sea got its name.

The ancient Romans lived in Italy, which is in the middle of the Mediterranean Sea. The Romans set out to conquer all the lands that touched this huge body of water: France, Spain, Libya, Egypt, Arabia, Greece, and the Middle East. The Romans called the world they conquered the "Circle of Lands" (orbis terrarum), and they called this sea "Our Sea" (Mare Nostrum). We call it the Mediterranean Sea because it lies in the middle (Medi-) of all those lands (terr) once conquered by the ancient Romans.



See if you can figure out the "earth" connection in these words: territory, terrace, terrain, terrarium, extraterrestrial, subterranean, terrier. If you need help, look them up in an online dictionary.

Cameron Carter and 9 others



Earth Day on the Mediterranean Sea

A Word Roots Lesson for Earth Day – Terr(a)

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See if you can figure out the "earth" connection in these words: *territory*, *terrace*, *terrain*, *terrarium*, *extraterrestrial*, *subterranean*, *terrier*. If you need help, look them up in an online dictionary.

Why Geologists Love Earth Day

Another Word Roots Lesson for Earth Day - Geo

Do you like rocks? Many people find rocks fascinating. If you are one of those people you might want to become a geologist. A geologist is a scientist who works in geology - the study of the physical history of the earth, the rocks of which it is composed, and the physical, chemical, and biological changes that the earth has undergone or is undergoing. The word geology comes from two Greek word roots – **geo**, meaning earth or land, and **-ology** which means the study of. So, geology means the branch of science that studies the earth and its features. Geologists study volcanoes and earthquakes; they also study the various materials that make up the earth, such as oil and minerals. The study of geology can be quite fascinating.

Knowing that the word root **pan** means all, why do you think that the word **Pangea** refers to the supercontinent that included almost all the landmasses on Earth in early geological times?



See if you can figure out the "earth" connection in these words: *geography, geometry, geode, geothermal, geocentric,* and *geodesic* dome and sphere. Can you match each image above with one of these "geo" words? If you need help, look them up in an online dictionary.

NATIONAL TORTILLA CHIP DAY – February 24





tort = twist

A Word Root Lesson focused on tort = twist

National Tortilla Chip Day celebrates the crunchy, curvy, and twisty snack loved by millions across the nation, is observed annually on February 24th. Tortilla chips are most commonly served with salsa, chili con queso, guacamole, or cheese dips. Tortilla chips are made from corn tortillas cut into wedges and then fried. Tortillas, themselves, are thin, flat, round cakes of unleavened commeal baked on a gridle. The name tortilla comes from the Latin which means "twisted bread."

Even though tortilla chips have always been considered to be a Mexican food, they were first produced in Los Angeles in the late 1940s. It is said that the triangle-shaped tortilla chips were made popular by Rebecca Webb Carranza as a way to use the misshapen tortillas that were rejected from the automated tortilla machine that she and her husband used at their Los Angeles deli and tortilla factory. Carranza realized that once the discarded tortillas were cut into triangle shapes and fried they twisted themselves into becoming a popular snack. She sold them for a dime a bag. Carranza received the Golden Tortilla Award in 1994 for her contribution to the Mexican food industry.

Source: https://nationaldaycalendar.com/national-tortillachip-day-february-24/

Match the tort word below with the appropriate image (How does each word include the idea of twist?)

Contortionist

Torture

Distortion







More tort words to explore:

Extortion Retort

Tortellini Torsion

Learn more about a Word Roots approach at www.timrasinski.com > Products. Contact us at trasinsk@kent.edu



March 15 - World Contact Day



A Word Root Lesson on tact/tang = touch

Every year on March 15th, people around the globe unite on World Contact Day to attempt make contact or get in touch with extra-terrestrial (ET) life. Nearly half of all human beings believe that intelligent alien civilization exists. Those who believe other life forms exist think we should try to make contact with them. If you are one who doesn't believe in aliens, here are some facts to consider:

- The U.S. government takes UFOs seriously.
- Scientists think that certain planets may be habitable.
- Many people claim to have personal contact with aliens and have been able to draw pictures describing their experiences.
- Many people have reported UFO sightings and have taken pictures to prove it.
- There are a lot of things that happen in the sky that are simply unexplainable.
 If aliens really do exist, why haven't we made contact with them?

What do you think about aliens and life beyond the earth? (Source: https://nationaldaycalendar.com/world-contact-day-march-15/)

The Latin's tact, tang means touch. It is found in many English words. Can you think of any?



tact/tang = touch

Match the descriptive phrase below with the tact/tang word on the right. Be sure to "touch bases" with a friend or teacher about your choices.

- _____ Affecting the sense of "touch" such as sand paper.
- 2. ____ Capable of being transmitted, especially by "touch."
- 3. _____ Not perceptible by the senses, especially the sense of "touch."
- 4. ____ "Touching at a single point."
- 5. An item that is not broken; "untouched."
- 6. _____ Being sensitive to the feeling of others, especially on "touchy" issues

- a. tangent
- b. tactile
- c. intact
- d. contagious
- e. tactful
- f. intangible

Choose the Correct Word:

My brother is so touchy, that any _____(tangential, tactless, contingent) comment by someone is certain to hurt his feelings.

What does it mean when someone is described as touchy?

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Memorial Day



A Word Roots Lesson on mem, memor = mind, mindful

On the last Monday of May the United States commemorates, honors and remembers of all men and women who have died while serving in the United States Armed Forces. The words memorial, commemorate and remember all carry an important word root — mem/memor which means "mind or mindful." On Memorial Day we are asked to be mindful of those who have died in service to their country so that they live on "in our minds."

Here are other English words that contain this root as well. Can you match them with the pictures below? What do each have to do with "mind or mindful"?

memories, memoirs, memorandum







If you were to visit Washington DC, what might you bring home as a mememto?

Thanksgiving – A Day of Gratitude Celebrating the Word Roots Grat-/Grac- = Thank







Thanksgiving Day is observed each year in the United States on the fourth Thursday in November. In 1621, the Plymouth colonists and Wampanoag Indians shared an autumn harvest feast of **gratitude** that is acknowledged today as one of the first Thanksgivings in the colonies. For more than two centuries, days of thanksgiving were celebrated by individual colonies and states. It wasn't until 1863, amid the Civil War, that President Abraham Lincoln proclaimed a national Thanksgiving Day to be held each November.

The word **gratitude** is based on the Latin root **grat/grac**, which means "thank." To feel **gratitude** is to feel **thankful** or to show appreciation for a kindness.

Match the grac-/grat- phrase in the box on the right with the descriptions below.

- 1. _____ To "give thanks" before a meal
- To tip a food at a restaurant as a "thank you".
- To be "thankful" for your blessings.
- 4. _____ To show no "thanks" or appreciation for a favor.

- A. Feel grateful
- B. Display of ingratitude
- C. Say grace
- D. Leave a gratuity

Check out these other grac-/gratwords. What do each have to do with thanks or pleasing.

-Ingrate

-Gracious

-Gratify

-Gracias



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Laura Hancock, Ph.D. @Laura AHancock · Feb 13

Absolutely love Building Vocabulary with Greek and Latin Roots!

Theory, practice & extension activities. Odd Word out is a fav & much fun with students & adults.



Tim Rasinski @TimRasinski1 · Feb 13

Morphology Monday!

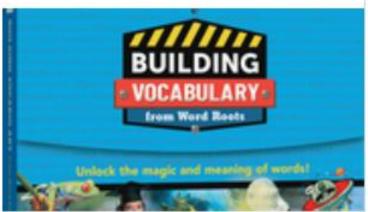
In anticipation of Presidents Day (2,20) in the US, this week's Word Roots are "SID, SED, SESS = SIT"

"Joe Biden is the SITTING preSIDent"

@ILAToday @ascd @DyslexiaIDA @reading_league @IMSEOG



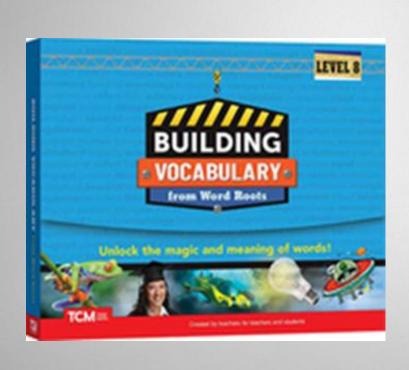
Did You Know...



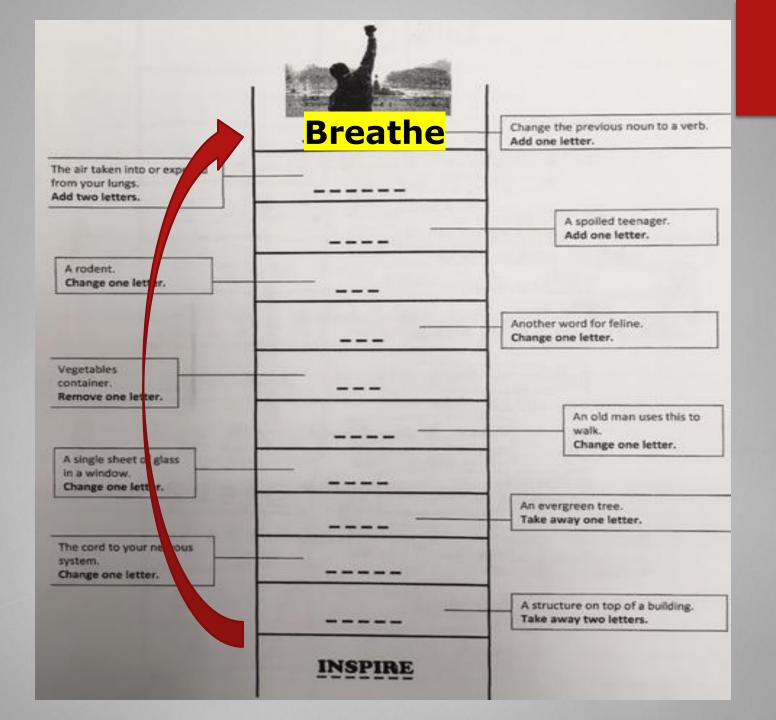
VENI, VIDI, VICI "I CAME, I SAW, I CONQUERED"



VENI, VIDI, VICI I CAME, I SAW, I CONQUERED VOCABULARY!







Spir(e) = Breathe

- Inspire, Inspiration, Inspirational, Uninspiring
- > Aspire, Aspirate, Aspiration, Aspirant
- Respiration, Respirator
- Conspire, Conspiracy, Coconspirator
- Perspire, Perspiration
- Expire, Expiration
- > Transpire,
- Spiracle
- Spire, Spiral
- Spirit, Spiritual, Dispirited, Spirituality



Spir(e)= Breathe

- Inspire, Inspiration, Inspirational, Uninspiring
- Aspire, Aspirate, Aspiration

Spir(e) > 50+ English Words!

- Conspire, Conspiracy, Coconspirator
- > Perspire, Perspiration
- Expire, Expiration
- Transpire,
- > Spirit, Spiritual,
- Spire, Spiral



A Poem About Words

A word is dead When it is said, Some say.

I say it just
Begins to live
That day.



-- Emily Dickinson

Word Ladders and Word Study





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