Vocabulary Development and Word Study Instruction: Keys for Success in Learning to Read

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- 1. Students learn 1,000 to 4,000 new words each year.
- 2. Vocabulary involves a depth component as well as a breadth component.
- 3. Vocabulary learning involves connotative (inferred/implied) and denotative (literal) meanings of words.
- 4. Why teach vocabulary?
 - a. Improves reading comprehension
 - b. Improves writing.
 - c. Aids in word recognition or decoding.
 - d. Increases general intelligence.
- 5. Vocabulary is least well learned under the following conditions:
 - a. Mindless repetition and defining of words
 - b. Words that are too difficult
 - c. Words that have no connection to students' lives, their studies, their interests, or to other words and concepts they may know.
- 6. Best ways to learn/teach words
 - a. Direct life experiences.
 - b. Indirect life experiences Read!
 - c. Direct instruction that includes the following characteristics:
 - 1) Makes connections to what students' lives, studies, and interests.
 - 2) Makes connections/relationships to/with other words.
 - 3) Involves analysis through compare and contrast.
 - 4) Involves categorization and classification.
 - 5) Involves stories about words.
 - 6) Helps students detect meaningful patterns in words.
 - 7) Provides for a degree of personal ownership.
 - 8) Learn new words of course and explore old words to new depths.
 - 9) Explore the implied meanings of words and phrases.
 - 10) Is game-like and engaging
 - 11) Use word knowledge to improve writing.
 - 12) Use word knowledge to construct meaning while reading (comprehension)

Selected Statistics for Major Sources of Spoken and Written Language

<u>Number of Rare (uncommon) words per 1000</u>

Adult Speech, Expert Witness Testimony	28.4
Adult Speech, College Graduates to Friends	17.3
Mr. Rogers and Sesame Street	2.0
Children's Books Preschoolers	16.3
Children's Books Elementary	30.9
Comic Books	53.5
Popular Magazines	65.7
Newspapers	68.3
Adult Books	52.7
Abstracts of Scientific Articles	128.0

Adapted from Hayes & Ahrens (1988). Journal of Child Language, 15, 395-410.

Source: Cunningham, A.E. & Stanovich, K.E. (1998, Spring-Summer). What reading does for the mind. <u>American Educator</u>, <u>22</u>, 8-15.

Vocabulary Development -- Concept Map

Purpose:

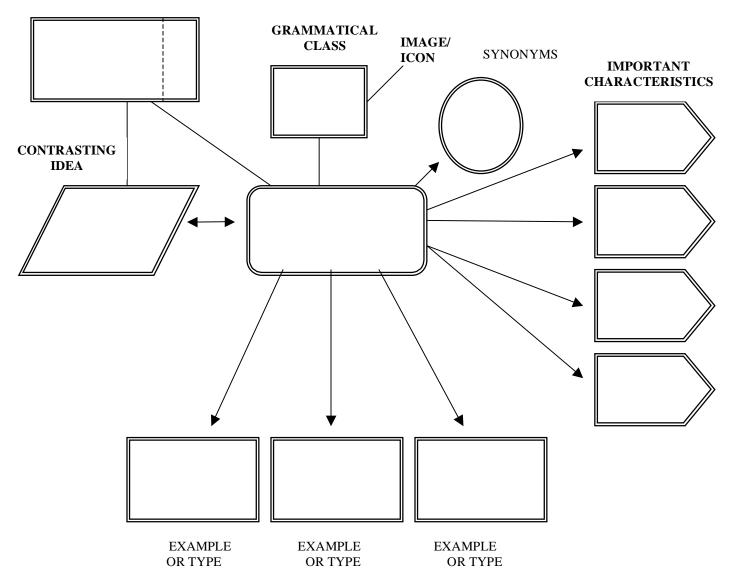
To help students develop definitional knowledge in relation to other words and concepts.

Procedure:

- 1. Begin with a key word or words you want students to learn. If it is a word they have some familiarity with they can create the concept map. If it is a word students are probably unfamiliar with, teachers can present a completed concept map to students.
- 2. Working alone or in small groups, students discuss and choose words, concepts, and phrases that fit the definitional categories of the key word. The definitional categories can include hierarchical concept, comparison/contrast concept, synonymous concepts, characteristics of the key word, and examples of the key concept.
- 3. If working in groups, students can share they group definition with the class and compare how different groups came up with different responses to the various definitional categories. The various maps can be placed on display for student analysis and comparison.

CONCEPT MAP

CATEGORY OR CLASS



Vocabulary Development --- List Group Label, Word Sorts

Purpose:

To brainstorm words related to a particular topic or theme; and to sort those words into various categories. To build background knowledge related to a particular topic.

Procedure:

- 1. Select a topic or theme. This can be a topic to be studied in a subject area, a time of year or holiday, a topic to be read about in an upcoming text.
- 2. Individually or in small or large groups, students brainstorm word related to the topic. The teacher may also contribute words to this list.
- 3. Once words are brainstormed, students group 2 or more words and list them together. They also create a label that defines or describes the categorization.
- 4. Once words are categorized (grouped and labeled), new words can be added to each category (This shows how once randomly listed words are organized, the brain can begin to include other words related to the category, but not originally listed). Students discuss their rationale for organizing and grouping the words.
- 5. Grouped and labeled words can be transformed into a semantic web or an informational outline.

Word Sorts

- 1. Word sorts activities are done is much the same way, except the words and categories are usually predefined by the teacher.
- 2. In some cases you may have a sort in which the words are already sorted, or categorized. Students are challenged to think of the category names for the sorted words
- 3. As with List Group Label the actual work of Word Sorts should be accompanied by explanatory discussion.

List Group Label Example	
Words Listed Topic =	
Transformation: Semantic Map	
Transformation: Outline	

Words:

	Blue		Gray	Lee		Lincoln	Jefferson Davis
	Slaver	y	Grant	Shiloh		Gettysburg	States Rights
	John B	Brown	Abolition	Richmond		Bull Run	Vicksburg
	Stonew	vall Jackson	Atlanta	Sherman		Reconstruction	
	Virgin	ia	Ohio	McClellana	d	Washington	Underground RR
	Secessi	ion	Kentucky	Texas		Freedmen	Massachusetts
Sort #		Words Associ					
	<u>North</u>	South		<u>Other</u>			
Sort #		Before Civil V			•	After Civil War	<u>Other</u>
 Sort #		<u>Military</u>	<u>Politics</u>		 <u>her</u>		
Sort #	4 ,	<u>Leaders</u>	<u>Battles</u>	<u>Other</u>			

Vocabulary Development: Semantic Feature Analysis (SFA)

Purpose:

Provides students with practice in analyzing words and concepts along various defining dimensions, characteristics, or features.

Procedure:

- 1. Obtain a blank grid (see template).
- 2. Identify a topic or theme from which to draw words to analyze.
- 3. Choose or invite students to choose a set of items, objects, or concepts that fit within the topic of theme (e.g. Topic = Texas Cities, Concepts = Dallas, Houston, Wichita Falls, etc.; Topic = American Leaders, Concepts = Washington, JFK, FDR, LBJ, etc.). The concepts are listed in the left hand column.
- 4. Brainstorm, alone or with students, features or characteristics that one or more of the concepts possess (e.g. Topic = Texas Cities, Features = Population over 500,000; Major sea port, southern half of state, state capital, contains military base). List the features along the top row of the grid.
- 5. Students use the features to analyze the concepts. Initially students can place a yes or no in each box to indicate the presence or absence of the feature. As students become more adept at using SFA, they can rate the degree to which each concept contains such a feature (e.g. 1 = does not possess the feature at all, 2 = possess the feature to some degree, 3 = possesses the feature to a very high degree -- very descriptive of the concept).
- 6. Students should discuss their reasoning with their classmates after completing the grid analysis.
- 7. After completing the analysis, students can write definitions for each concept using the various features or attributes that were the basis for the analysis (e.g. Houston is a large Texas city located in the southern part of the state; it is a major sea port but is not the state capital...).

Semantic Feature Analysis	Topic:	
Columns = attributes Rows = exemplars		

Topic				

Vocabulary Development -- Word Histories, Word Derivations

Purpose:

Knowing the history of words can often help students understand other important aspects of the history from which the word born. Moreover, knowledge of meaningful affixes, particularly from Latin and Greek, can help students determine the meanings of words they have not met before.

Procedures:

- 1. Introduce students to a word history or place name story each day. Place the word in a prominent place of the classroom and try to use the word often in speech and writing.
- 2. Introduce students to a new word affix/morpheme. Define the meaning. Think of other words that share the affix and attempt to determine their meanings.
- 3. Create novel words using words from history or the present and/or using Latin or Greek morpheme. Challenge students to determine the meaning for the new words. Challenge students to create new words from words and morphemes the class has explored.

Examples:

What is the story (history) of the following words? How might knowledge of these words inform our knowledge of other words.

Akron (Ohio)

Polonium

Vermont

Verdent

Palo Verdes

Palo Alto

Tawdry

Pedal

Pedestrian

Pedestal

Piedmont

Word Derivations

Some Common Greek and Latin Morphemes

ast	star	phon	sound	therm	heat	dem	people
graph	write	cycl	circle	scop	see	arch	chief
anthr	man	cosm	universe	bio	life	gyn	woman
crat	rule	auto	self	hydr	water	geo	earth
gam	marriage	neo	new	phob	fear	onym	name
phys	nature	soph	wisdom	the	god	phil	love
paleo	old	morph	change pod	foot	psych	mind,	soul
cine	movement	cardi	heart	poly	many	anti	against
bi	two	micro	small	tele	distant	demi	half
ante	before	epi	after	post	after	intra	within
pan	all	omni	all	ab	from	contra	against
meta	change	pseudo	false	hetero	different	homo	same
bene	good	dys	bad	amphi	both, around	para	almost
ambi	both, around	mal	bad	ology	science of	ang	bend
credit	believe	ped	foot	vac	empty	tract	pull
mob	move	man	hand	loc	place	volv	roll
belli	war	agri	field	alt	high	ambul	walk, go
cand	glow	cogn	know	aqua	water	amo	love
alter	other	cord	heart	dent	tooth	fric	rub
fid	faith	grad	step	frater	brother	grat	pleasing
domin	master	fug	flee	luc	light	mater	mother
max	greatest	mand	order	junct	join	mort	death
mut	change	lab	work	jur	law	ject	throw
narr	tell	neg	no	nav	ship	pater	father
rad	spoke	pug	fight	scend	climb	reg	guide, rule
sci	know	scribe	write	stell	star	tact	touch
ten	stretch	tex	weave	vag	wander	ver	truth
voc	voice	vit	live	term	end	spir	breathe

Latin and Greek Roots to English

Prefixes

Anti against
Auto self
Bi two
Centi hundred
Co with, together
Extra more, beyond

Mega large Micro small Mid middle Mono one Multi many Phono sound Poly many Pre before Re again Semi, hemi half Super over Tele distant Tri three Ultra beyond Un not Uni one

Other word parts

Aero air Scop see Aud hear Struct build Biblio book Terr(a) land Bio life Therm heat Chron Volv time roll Dem Vor people eat

Gram write
Graph write
Hydr water
Lab work
Max greatest
Ped foot

Phon sound See Rasinsk, Padak, Newton & Newton.
Photo light (2008). Greek and Latin Roots: Keys to

Port carry Vocabulary. Shell Publishing

Psych mind

Excerpts from "YOU'RE A SAGE, ROSEMARY"

By Bonnie von Hoff Johnson and Dale D. Johnson (from <u>Proteus</u> Magazine)

Eventually I heard through the grapevine that I was playing second banana. Frank had found a floosie-a tart. I decided to stalk Frank on his next outing to see for myself. This isn't sour grapes talking, but when I saw them together, they looked crummy. A string bean and a carrot-top shrimp. Comparing Frank's new sweetie pie and me was like comparing apples and oranges. I was afraid I'd toss my cookies, but I swallowed hard and drove home.

When Frank arrived, I didn't mince words. I told him to spill the beans about his little cupcake. "Don't try to sugar-coat the facts, Frank," I warned. "You were caught with your hand in the cookie jar." Frank turned beet red but remained as cool as a cucumber. "Don't clam up now," I yelled, "and don't fudge. The truth, Frank." He suggested that I simmer down, and then Frank told me the whole enchilada. He said he had wanted to sow some wild oats for the past year and he did. First, there was Olive. Then came Ginger. After egging him on, Frank finally told me about "saucy like Pickles."

Frank tried to eat humble pie. He whimpered that he still loved me and would like to stay married, but I raged, "You're full of baloney, Frank. You're not worth a fig. You can't have your cake and eat it, too. I'm dropping you like a hot potato. I have bigger fish to fry. How do you like *them* apples?" Frank told me to simmer down, but I was boiling. "Now you're in a pickle, Frank!" I fumed. "Your goose is cooked." I gave him the raspberries and stormed out.

For more see: Leedy, Lorreen (Illustrator) and Street, Pat (author). (2003). *There's a Frog in My Throat*. New York: Holiday House

Idiomconnection.com

Rasinski, T. V. (2008). *Understanding Idioms and other English Expressions. Grs 2-3 and 4-6*. Shell Publishing

Categories for Idioms

Horses
Dogs
Cats
Farms
Factory – Work
Seasons/Weather
Track and Field

Ducks and Geese

Baseball Football Basketball Colors Numbers Nautical/Water

Church Fish

Food/Kitchen Cars and Trucks Stars and Space

Plants, Flowers, and Tree

Vocabulary Time Lines

Take appropriate addition ertically, on top of one a	ns to the following vocabulary tinnother.	me lines. List are synonymous
	Told Said	
Hot		Cold
Beautiful		Ugly
Douthui		O gry
Tall		Short
Young		Old
	Odiferous	
	Old Man	

Vocabulary Development: Games/Riddles/Puzzles

Purpose:

Words should be learned in a playful and exploratory environment. Various word games give students opportunities to play with words, to practice words, and to explore words. A few favorite word games, riddles, and puzzles include WORDO, Synonymic Rhyme Riddles, and Scattegories.

Procedures:

WORDO: Each students is given a blank WORD card. Teacher identifies 24 words from any area of study. Words are written on the board while students randomly write one word in each square (one square is marked Free). Play begins with the teacher (or Master of Ceremonies) giving students the definition/synonym/antonym or some other clue to one of the randomly drawn words. When students determine the given word, they place a marker over the word on their card. First player to have marker across a complete row, column, or diagonal wins the game.

Synonymic Rhyme Riddles (Also known as Hink Pinks -- 1 syllable; Hinky Pinkies -- 2 syllables, and Hinkity Pinkities -- 3 syllables): Synonymic Rhyme Riddles are two or more rhyming words that are answers to riddles. These can be related to any subject area. Students can be encouraged to create their own synonymic rhyme riddles.

An intelligent award wise-prize
A fraudulent reptile fake-snake
An obese rodent fat-rat

A female horse in the shape of equilateral

parallelogram square-mare

A popular song played

With lettuce and cucumbers salad-ballad

Scattergories: Played with a grid (see template). On left hand column are written a random assortment of letters, one letter per line. On the top row are items for which there are many examples (Presidents, countries, elements, musical words, artists, etc.). Students are challenged to find words that fit the categories and at the same time begin with one of the designated letters

Vocabulary Development -- Prevoke (also known as Vocabogram)

Purpose:

Challenges students to use designated words from a text narrative or essay to sort into designated categories and to predict various aspects of the upcoming reading. Encourages prediction, an important aspect of proficient and engaged reading, as well as vocabulary development.

Procedures:

- 1. Select a text that you wish students to read. Identify 10-20 important words or short phrases from the text. Identify these words and phrases to students.
- 2. Choose categories into which you want to students to sort words (e.g. words related to plot, setting, tension of the story, characters, good words, bad words, descriptive and nondescriptive words, interesting words, essential and nonessential words, feeling words, nonfeeling words, etc.)
- 3. Introduce students to word set. Ask them to work in groups or alone in sorting the words into the categories you specific. Discuss the categorization when completed.
- 4. Once students have become familiar with the words and their meaning, through the categorization, have students make predictions about some aspect of the text to be read, or about the entire text. Share the predictions and explanations for the predictions.
- 5. Read the text to the students, or have them read it themselves. The predictions should act as purposeful questions that will engage students in making sense of the text.

Vocabulary Development -- Cloze Procedure

Purpose:

Many words are learned through our own reading. The cloze procedure encourages students to predict/determine deleted words from a given text, using the context of the text along with whatever background knowledge the reader may have about the text topic or conventions of text.

Procedures:

- 1. Choose a brief section of a text to be read, or a text that has been read some time in the past. Delete words for the brief passage (no more than one word of every five). Retype the passage with the words deleted, or copy the original text with the deleted words marked out with a marker.
- 2. Students read the text and attempt to determine the deleted words using their background knowledge and the context of the passage.
- 3. Students discuss their word selections along with the reasons for making their selections. This helps those students who may not know the reasoning behind correct selections.

Cloze Passage Example -- Taken from Pyramid by David Macauly

Life in Egypt was fairly	/ simple. Most	people were 1		. For eight or nine
2 of the ye	ear they tended	I their small plots alo	ng the 3	river,
growing 4. w	_, <i>5</i> . fr	, and <i>6. v</i>		. Others raised
cattle, sheep, and 7.	<u>, </u>	They tried to feed the	mselves, pa	y their
8. t, a	nd store enoug	jh 9 to la	st through th	e annual
inundation. This was	the time betwe	en July and Novemb	er when the	river rose and
10	most of the far	rmland. The 11		eventually
receded, leaving a ne	w layer of rich a	and <i>12</i> . f	eart	:h.
14 Alternative method for a	ecording answer	rs		
1	_			
3	4			
5	6			
7	8			
9	10.			
11	12.			
13	14.			

101.079w

Program Overview

Building Vocabulary from Word Roots is a systematic approach to word awareness and vocabulary building for students in grades three through eight. Based on the premise that over 90 percent of English words of two or more syllables are of Greek or Latin origin, Building Vocabulary from Word Roots teaches essential word strategies that enable students to unlock the meaning of vocabulary words they encounter inside and outside of school. Building Vocabulary from Word Roots teaches Greek and Latin prefixes, bases, and suffixes—the semantic units from which the vast majority of English words are derived.

The series consists of six Teacher's Guides with accompanying Guided Practice Books for students. Every student should have a Guided Practice Book, which will be used throughout the entire year. Each part of a lesson can be completed in 10–15 minutes per day, with the entire lesson completed in one week. Since the series is designed to support students with a range of reading and vocabulary levels, teachers can select the activities that will best meet their students' needs. Each lesson offers a variety of activities to choose from.



In Part A ("Meet the Root"), students "divide and conquer" a list of English words as they identify the prefix, base, and/or suffix.



In Part B ("Combine and Create"), students compose English words built from the root.



In Part C ("Read and Reason"), students read short paragraphs and poems as they encounter the word parts in context.



In Part D ("Extend and Explore"), students work individually and in groups to create applications for the new vocabulary.



In Part E ("Go for the Gold!"), students enjoy word games as they review the words and concepts for the week.











Program Overview (cont.)

In this program, students are introduced to one new root per week, with daily activities to ensure that students learn the root and the many English words it generates. The *Teacher's Guide* provides a lesson plan and shows each student activity found in the *Guided Practice Book* and on the bonus pages CD. The bonus pages on the CD can be printed in color or in black and white. They can also be projected onto a screen for the students to see, depending on the technology available in your classroom. Read the directions at the top of each page with students and complete the activity together. The *Teacher's Guide* also contains overhead transparencies for some of the lessons. Teach the two-page lesson plan on the first day of the lesson, which should be the same day that Part A is completed.

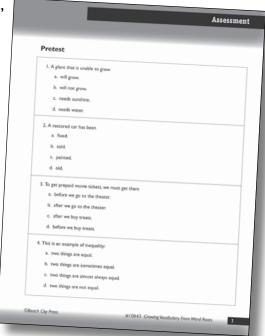
The Building Vocabulary from Word Roots program for each level is designed to fit within a 28-week school year. Each unit is designed for a five-week period, with every sixth week dedicated to review. The final unit of each school year is designed for a three-week period, with a fourth week for review. Thus, the five units for each grade present students with 20–25 essential prefixes, bases, and suffixes. In a typical year, two units are devoted to prefixes, one to suffixes, and two to Latin and Greek bases. Over the six-year curriculum of Building Vocabulary from Word Roots, students will master 120–150 classical roots and will be eminently prepared for success in high school and beyond.

will be thoroughly familiar with all the Greek and Latin prefixes, bases, and suffixes of the vocabulary words they will encounter in the post-intermediate grades.

If this program is being used in a summer school setting, parts of lessons can be combined, so that an entire lesson is taught each day. Each lesson takes 50–75 minutes to complete (10–15 minutes per part).

In the Assessment section of the *Teacher's Guide* are two tests that can be used before and after students' experiences with *Building Vocabulary from Word Roots*. The same 20 word parts are on each test. Items focus on knowledge of the meaning of the word parts. The answer key is included.

The Teacher's Guide also has a resource section. This section offers resources for teachers and their students to add depth and breadth to the vocabulary study in Building Vocabulary from Word Roots.

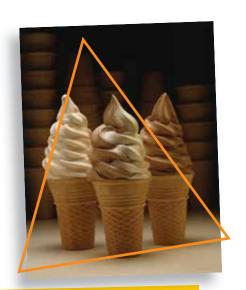




Part A: Meet the Root

Divide and Conquer

Directions: "Divide" words into two parts. There is a Latin number prefix and a base. The bases have been given to you. Then "conquer" them by writing the meaning of the words.



	prefix means	base means	word means
I. triangle	three	_angle = angle_	a shape with three angles
2. tripod		pod = foot	
3. trio		X	
4. tricolor		_color = color_	
5. trident		dent = tooth, teeth	
6. triple		ple = fold, multiply	
7. triplets		ple = fold, multiply	
8. triplex		ple = fold, multiply	
9. triathlon		<u>athl</u> = contest	
10. trifocals		foc = focus, hearth	

Part B: Combine and Create



Solving Riddles

Directions: Solve the word riddles. Each answer will begin with tri-.

١.	I am a two-dimensional figure.
	I have three corners or angles and three sides.
	I also have three syllables.
2.	I have pedals.
	Young children ride me.
	I have three wheels.
3.	I happen in baseball.
	I don't happen very often.
	I happen when a team gets three outs on one play.
	I am two words.
4.	I am a stand for a camera.
Ü	I have three "feet" or "legs."
	I only have two syllables.
	Total tare erro symmetres.



- We are three children.We were born at the same time.
- 6. My name is Neptune.
 I am the Roman god of the sea.
 I use a "three-toothed" fork to catch fish.
 What do you call this three-pronged spear?



Fill in the Blanks

Fill in the Blanks	Word Bank
	triangle
Directions: Choose words from the Word Bank to fill in the blanks for	triangular triathlon
the following news story. Then answer the questions.	tricolor
Today in math class we drew a, a polygon with	tricycle
three sides. We also looked at a angle that	trio
	triple
showed how the angles inside the triangle look. Then the math	triple-decker
teacher told us we were going to our knowledge	triple play
of shapes, meaning that we were going to multiply our math skills by	triplane
three.	triplet
tillee.	triplicate
Directions: Answer these questions by taking another	tripod
look at the words in the Word Bank.	trisect
I. Pick out a word that you already know the meaning of.	
Write the word.	
What does it mean?	
2. Pick out a word you are not sure about.	
Write the word	
Divide it into parts. What do you think it means? (Remember that tri-	means
"three.")	
3. Pick out a word you do not know at all.	
Write the word.	
Divide it into parts. What do you think it means? (Remember that tri-	means
"three.")	

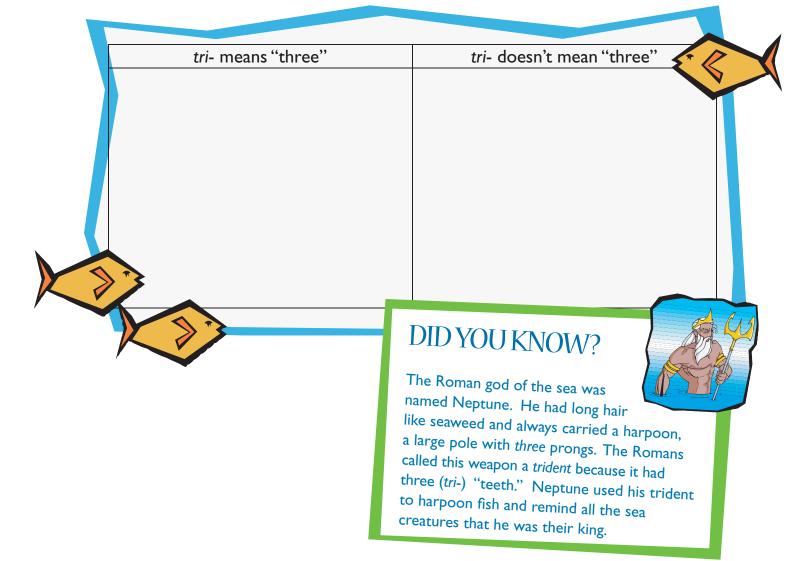
Part D: Extend and Explore



Word Sort

Directions: Sometimes *tri*- means "three." Sometimes it doesn't. Put these words on the chart where they belong.

trinket trip triplet trifocal trifle tricycle tribe tricolor trim trick trio triple

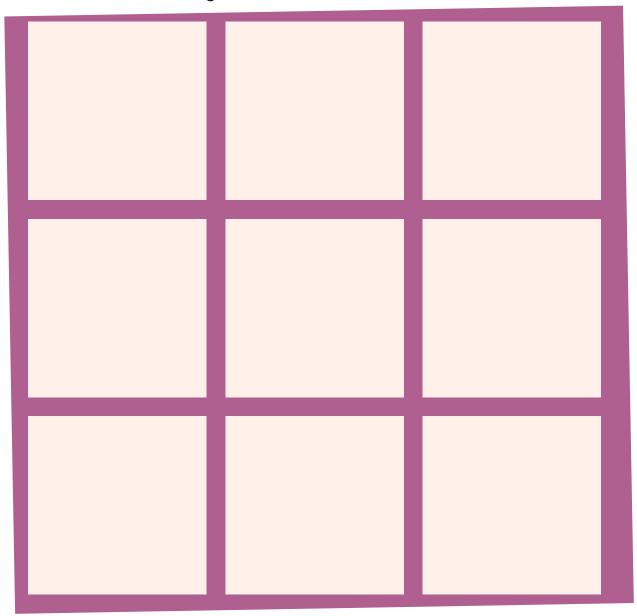




Part E: Go for the Gold!

Nine Square Wordo

Directions: This game is like Bingo. First, choose a free box and mark it with an X. Then choose eight of the twelve words from the word list provided by your teacher and write one word in each box. You can choose the box for each word. Then, your teacher will give a clue for each word. Make an X in the box for each word you match to the clue. If you get three words in a row, column, or diagonal, call out, "Wordo!"



Roots Chart

Below is the list of prefixes, suffixes, and bases explicitly taught in Building Vocabulary from Word Roots.

Level 3

PREFIX	SUFFIX	BASE
bi- co- con- ex- il- im- in- pre- re- sub- tri- un- uni- unit-	-er -est -ful -less -ly	fin finit gram graph mobil mot mov port vid vis



PREFIX	SUFFIX	BASE
auto-	-able	audi
col-	-arium	audit
com-	-ary	spec
de-	-er	spect
im-	-ible	terr
in-	-ify	trac
inter-	-ologist	tract
mega-	-ology	VOC
megalo-	-or	voice
micro-	-orium	voke
multi-	-ory	
per-		
poly-		
pro-		
tele-		
trans-		



PREFIX a- ab- abs- ad- di- dif- dis- super- sur-	-ate -ation -cracy -crat -phobe -phobia	BASE aqua chron(o) cour cours cur curs dent dict duc duct grad gress hydr(o) lect leg lig	odont ped pod pon pos posit rupt scrib script sed sess sid sol stru struct tempor
		mon(o)	



BASE	
am(a)	peal
amat	pel
anthrop(o)	pend
bi(o)	pens
cred	phil(o)
credit	puls
dynam	sens
fac	sent
fact	serv
fect	servat
fic	tain
forc	ten
fort	tent
gen	tin
gener	ven
human	vent
miss	vers
mit	vert
nat	vit
natur	viv
	am(a) amat anthrop(o) bi(o) cred credit dynam fac fact fect fic forc fort gen gener human miss mit nat



<u>PREFIX</u>	<u>SUFFIX</u>	BASE	
con-	-ance	audi	matr(i)
e-	-ancy	audit	pac
ef-	-ant	bell	pass
ex-	-el	bene	patern
hypo-	-ence	bon	path
meta-	-ency	cid	pati
para-	-ent	cis	patr(i)
per-	-eous	clos	photo
se-	-(ic)ule	clud	plac
sub-	-i(c)le	clus	scop
tra-	-il	dei	sec
trans-	-ious	divin	sect
	-le	found	spec
	-(I)et	fund	spect
	-ose	fus	spic
	-ous	labor	tact
		locut	tang
		loqu	tend
		luc	tens
		lud	tenu
		lumin	the(o)
		lus	tig
		mal(e)	ting
		matern	tom



PREFIX	BASE	
a-	cap	pan(t)
ad-	capt	past
an-	ced	pastor
di-	ceed	phon
dif-	ceive	solut
dis-	cept	solv
dys-	cess	strain
epi-	clin	strict
eu-	cub	string
ev-	cumb	trac
	fail	tract
	fall	treat
	fals	trud
	fault	trus
	fer	ver
	greg	VOC
	lat	vok
	neo	volu
	nov	volut
	omni	volv



Roots Chart

Below is the list of prefixes, suffixes, and bases introduced and explained in *Building Vocabulary from Word Roots*, but not necessarily the focus of the lesson. You will see some overlap of word roots from the list of those explicitly taught—for example, a prefix might be introduced in grade 3, but not explicitly taught until grade 5.

Level 3

BASE angle annu athl bio corn(u) cycl(e) enni foc form lingu ocul

ple plex ply son



SUFFIX -crat

BASE

astr(o) later avi lav claim libr clam lud col lus cosm(o) magn cotta main

dose man ec(o) me(a) fess medi flat meter flect metr(o)

flex mort for mur form nomin fum noun fund par fus pear

gam petr ge(o) pol polis ger sanct(u) geront scend gyn

gynec scens habit sist techn hal(e) haute test verb horr

hypno via zo(o)

it



PREFIX	SUFFIX
ana-	-arch
infra-	-astery
infer-	-estery
mis-	_





PREFIX anti-

SUFFIX -(o)logy BASE (h)od act adelph

jac ject lab log ject

aer(o) log
ag m(eridiem)
agog(ue) morph

agog(ue)
ambul
bell
bellum
bibl
bibli(o)
bol
cardi
ced
centr

navig noc nox onym path pher phil phragm

seps sept cess dexter soph dextr sta erg stanc fact stant fect stat feit stru fend struct fens theater gnos theatr thes hum I thet ig(u) val

it

PREFIX em-

SUFFIX -ectomy

BASE
(a)llel mors
(s)pir od
al par
alma part
am poss
amat pot

secut

barbar sequ caps sit

amor

cuss somn(i) derm spir dermat therm fit trop funct ventr(i) glob vest hor(o) vigil me(a) vol

vor

mole mord

PREFIX

SUFFIX

-ella

-cracy

-ist

BASE

angel

annu

mnem

mne

nihil

non

nov

oct oct(a)

ov

pathos

penta

phem

phyt

pne

pneum

preci

quadr

quart

quint

semi

sept

sex

anthrop api

aquil avi

belli bov

brev bys(s)

can

cent center

centr class

dec decim

dem

elephan enni

fel hem

hem stle hemat stol

hemer sui (swi) hemi taph hepta taur

hexa tetra hydro thanas

kilo thanat leo(n) urs

lith vulp

lup vulture mill

sept

A "Roots" Approach to Vocabulary: Insights from Research Tim Rasinski, Nancy Padak, Rick M. Newton, Evangeline Newton

Why Latin and Greek Roots?

DID YOU KNOW?

In Ancient Rome, school children studied out loud in class. As they learned new words they would sound them out with their **voices**. This is why the English word **vocabulary** (meaning a "list of words") is built on the Latin word for "voice." Students took their **vocabulary** quizzes by reciting the words aloud. Even as adults, Romans continued the habit of reading everything out loud. Roman doctors would often order sick patients to give up reading for awhile because their reading would irritate their **vocal cords** and make a sore throat worse! ("**Building Vocabulary from Word Roots," Level 4**)

- Over 60% of the words students will encounter have recognizable word parts; many of them are derivatives of Latin and Greek roots (Nagy, Anderson, Schommer, Scott, & Stallman, 1989). School texts have a vast number of words from Latin and Greek roots.
- Latin and Greek prefixes, bases and suffixes have unique semantic features and consistent orthographic patterns. *Knowledge of these roots links pronunciation, meaning and spelling, especially useful for young readers* (Rasinski & Padak, 2001; Bear, Invernizzi, Templeton & Johnston, 2000).
- Content area vocabulary (e.g., mathematics, science, literature, technology)
 is largely of Greek and Latin origin. Research in content area vocabulary has
 demonstrated the effectiveness of teaching Greek and Latin word roots,
 especially for struggling readers (Harmon, Hedrick & Wood, 2005).
- Many English language learners speak first languages semantically embedded in the Latin lexicon (e.g., Spanish). Enhancing this natural linguistic connection can accelerate these students' vocabulary growth (Blachowicz, Fisher, Ogle & Watts-Taffe, 2006).
- Many words from Greek and Latin roots meet the criteria of "tier two" words
 described by Beck, McKeown, and Kucan (2002) as appropriate for instruction
 because they are "high frequency words for mature language users" (pg. 16).
- Classroom-based studies have demonstrated the effectiveness of teaching word parts and context clues (Baumann, Font, Edwards, & Boland, 2005; National Reading Panel, 2000).
- An important goal of vocabulary instruction should be to help students become
 independent word learners who use research-tested strategies to determine the
 meaning of new words. Vocabulary instruction should also develop "word
 consciousness," an awareness of, interest in, and curiosity about words
 (Blachowicz & Fisher, 2006; Graves & Watts-Taffe, 2006).
- Research shows that the study of "roots" gives students the ability to learn many new words independently by helping them make connections among words and word families that are semantically related (Nagy & Scott, 2000). Activities that use "roots" for word exploration (etymology) and word play (puns, riddles) also foster "word consciousness" (Lehr, Osborn & Hiebert, 2004; Newton & Newton, 2005).

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DID YOU KNOW?

From ancient times, many words that describe "school" have used the base "cur-, curs-, cour-, cours." The Latin word **curriculum**, for example, originally meant a "small race course." Today we use the word **curriculum** to describe "going" through a series of school **courses** designed with a learning goal in mind. Sometimes we play sports or other **extracurricular** activities that are worthwhile, but "go" "outside" our goals. These words suggest that we often think of learning as a "running" process or race that begins at a starting point and ends at a finish line. ("**Building Vocabulary from Word Roots," Level 5**)

You can download a copy of today's presentation handout at:

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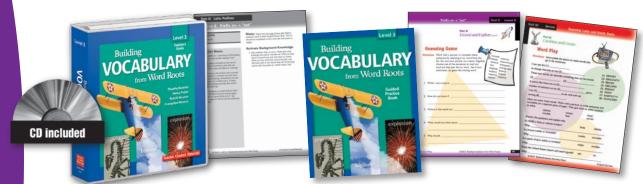
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- Nancy Padak, Ed.D., Kent State University, is the Principal Investigator for the Ohio Literacy Resource Center and directs the Reading and Writing Center at Kent State.
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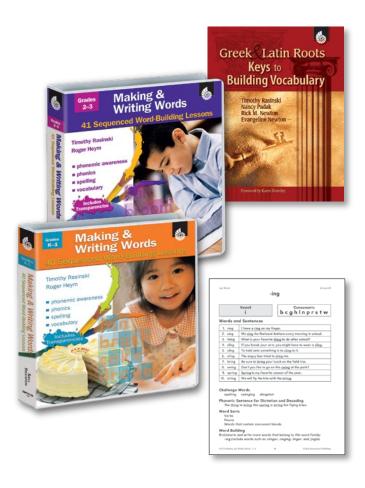
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