

# WORD SMARTS

# USING MORPHOLOGY TO DEVELOP VOCABULARY & WORD ATTACK SKILLS

William Van Cleave • Educational Consultant • W.V.C.ED

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#### I. Introduction

- a. word knowledge & active vs. passive vocabulary
- b. motivation for teaching morphology
- c. difference between phonological & morphological study
- d. terminology
- e. Anglo-Saxon, Latin, Greek: sorting by origin

### II. First Level Morphology

- a. Anglo-Saxon base words & affixes
- b. basic parts of speech for suffixing

### III. Second Level Morphology - Latinate Words

- a. Latin roots & affixes
- b. elements of a lesson
- c. suffixes vs. final stable syllables
- d. Latin template & connectives

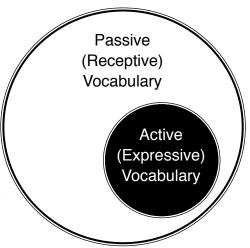
# IV. More Advanced Elements (as time permits)

- a. Greek template
- b. Greek combining forms
- c. -ti-, -ci-, & -tu-
- d. assimilated/chameleon prefixes

# Different Kinds of Vocabulary & Levels of Word Knowledge

#### Passive & Active Vocabulary:

It is important to understand the difference between **passive** (receptive) and **active** (expressive) vocabulary. Usually, a person's active vocabulary is much smaller than her passive vocabulary, and most if not all of that person's active vocabulary is included in her passive vocabulary. The words she uses in conversation and writing are typically a subset of those she understands (when she either listens or reads). Most readers encounter many words in text that are not commonly spoken. This knowledge is essential when selecting vocabulary words for students and also when deciding how to help those students learn the selected words.



#### Word Knowledge:

A person's understanding of indvidual words can also be seen on a continuum. Consider the following:

never encountered	heard word before but can't	recognize word due to	able to use and understand	fluent with word - both
word	define it	context or	but not explain	use and definition
		tone of voice	word	

Vocabulary Categories:

### Notes:

#### Reading vocabulary:

words you recognize when you read (typically the largest vocabulary)

#### Listening vocabulary:

words you recognize when listening to speech (increased by context and tone of voice)

#### **Speaking vocabulary:**

words you use in speech (typically a subset of listening vocabulary)

#### Writing vocabulary:

words you use when you write (many written words do not usually occur in speech)

# Terminology for Advanced Word Structure

morpheme that is attached to the root (usually either a prefix or a suffix) <u>affix</u>

assimilated prefix (often nicknamed chameleon) where, for ease of pronuncation, <u>prefix</u>

the final letter changes according to the initial letter of the base to which

it is attached (e.g., ad changes to ar before range to make arrange; in

changes to <u>ir</u> before <u>regular</u> to make <u>irregular</u>)

base word (also called root word) free morpheme; word with no prefixes and

suffixes (e.g., -port-, -kind-)

letter(s) in English words used to combine two morphemes; connectives connective

function as "glue" and are not morphemes themselves

Latin-based connect a root to a suffix or two suffixes to each other (e.g., media,

grad<u>i</u>ent, regular). three common Latin connectives: -<u>i</u>-, -<u>u</u>-, and -<u>ul</u>-.

Greek-based connective -o- often joins two combining forms or elements (e.g.,

photograph, democracy)

element often used to describe Greek-based morphemes (rather than specifying

whether they are roots or affixes) (e.g., -phon-, -crac-/-crat-, -bio-)

final stable cluster of letters at the end of a word whose pronunciation remains

<u>syllable</u> consistent regardless of the word in which it appears (e.g., -tion, -ble,

-<u>ture</u>); *not* synonymous with the term suffix

<u>morpheme</u> smallest component of a word that has meaning

bound morpheme morpheme that only appears as part of a larger word (e.g., -struct-)

free morpheme morpheme that can stand alone; often called base word or root

word (e.g., -port-, -kind-)

<u>phoneme</u> smallest unit of sound (e.g., /b/, /ch/)

<u>prefix</u> affix placed before the root of a word (e.g., <u>pre</u>-, <u>ab</u>-)

core meaning in a word; some are bound morphemes (e.g., -struct-), and root

some are free morphemes (e.g., -port-)

<u>suffix</u> affix placed after the root of a word; typically determines part of speech suffix that begins with a vowel (e.g., -ed, -ing, -ous, -ive, -ate, -us) vowel suffix

*consonant suffix* suffix that begins with a consonant (e.g., -ment, -ly, -ful, -tude, -less)

In linguistics, the term "root" refers to the word (in another language) from which our note: current stem or base is derived. Typically, however, in word study with students, the term "root" is used interchangeably with "stem" and "base."

# **Selecting Word Origins**

Label each word as AS = Anglo-Saxon; G = Greek; or L = Latin

bang	surreptitious	regenerate	hundred
mutual	what	phase	evacuate
chromosome	telepathy	those	phonics
forty	from	abbreviate	incredulous
declension	manuscript	phonograph	moat
pyre	pathology	epidemic	recuperate
expenditure	does	miss	
laugh	white	abnormal	bonus words:
orchid	biology	contraception	biodegradable
distribute	consequence	elbow	graphomotor
psychology	watch	philanthropist	subatomic

# Identifying Morphemes

<u>Underline</u> the root. <u>Box</u> the affixes (prefixes and suffixes).

cook	preheat	unworthy
cooking	overheated	worthlessness
cookery	like	worthiest
overcooked	likely	understandable
heat	liking	underactive
heating	likelihood	hopefully
heater	worth	unwholesome

# Suffixes Both Determine & Change Part of Speech

noun	verb	adjective	adverb
joy	rejoice(s,ing,ed) enjoy(s,ing,ed)	joyous joyful	joyfully
<del>peace</del> – – –		peaceful — —	peacefully —
hunger	hunger(s) hungered hungering	hungry	hungrily
expanse expansion expansiveness	expand(s) expanding expanded	expansive expandable	expansively
darkness dark	darken(s) darkened darkening	dark darker darkest	darkly
act action actor	act(s) acted acting	active — —	actively —
loudness		loud louder loudest	loudly
dependence	depend(s) depended depending	dependent dependable	dependently
sleeper sleepiness	sleep(s)	sleepy	sleepily

Note: -ed and -ing verbs can also serve as adjectives (called participles).

# Morpheme Instruction at the Elementary Level: A Week's Lesson

#### 1. Introduce.

- a. Write the morpheme for students to see. Write affixes with dashes to show they attach to bases. (e.g., -s, un-)
- b. Have students pronounce, trace, and write the morpheme.
- c. If the morpheme is bound, write it in a keyword to show how it is used.
- d. Have students pronounce, trace, and write the keyword.
- e. Explain and write the meaning of the morpheme. (Use either direct instruction or, wherever possible, help students use discovery learning to uncover its meaning.)
- f. Provide or ask students to create a personal card with the morpheme on the front and its keyword and meaning on the back.
- g. Using a Post-it, add the morpheme to the morpheme wall.
- 2. Generate with the students a list of words that contain the new morpheme.
- 3. Ask questions to help students generate other known words that contain the morpheme.

(e.g., for un-: "What would a word be for 'not kind'?" (unkind)

(e.g., for -port-: "What would a word be for 'to carry back'?" (report)

- 4. Have students locate and underline the morpheme in a list of words containing it. Alternatively, have the students complete word sorts.
- 5. Have students participate in morphemic awareness activities (oral manipulation of morphemes in words). Use felts or chips to represent the morphemes you move just as you would for phonemic awareness activities. (Donah's *Improving Morphemic Awareness* scripts this task for a number of morphemes but contains difficult morphemes for older students. A lower level book is in the works.)

Instructor:Say teach.Student:teachInstructor:Add /ing/ to teach.Student:teachingInstructor:Change /ing/ in teaching to /able/.Student:teachableInstructor:Add the prefix un- to teachable.Student:unteachable

- 6. Have students read phrases/sentences that include examples of words containing element.
- 7. Provide word, phrase, and sentence dictation that includes examples of words containing element.
- 8. Have students write sentences with words containing element.
- 9. Have students locate words that contain familiar prefixes and roots in paragraphs or longer pieces.
- \* Games and other activities can be added or even used instead of some of the activities above. See separate page of supplemental activities.

# Morpheme Instruction at the Middle & High School Level: A Week's Lesson

#### 1. Introduce.

- a. Write the morpheme for students to see. Include dashes that demonstrate where other morphemes can be added. (e.g., pre-, contra-, -ment, -age, -port-, -struct-)
- b. Have students pronounce, trace, and write the morpheme.
- c. Write the morpheme in a keyword to show how it is used.
- d. Explain and write the meaning of the morpheme. (Use either direct instruction or, wherever possible, help students use discovery learning to uncover its meaning.)
- e. Provide or ask students to create a personal card with the morpheme on the front and its keyword and meaning on the back.
- 2. Generate with the students a list of words that contain the new morpheme.
- 3. Provide definitions, and have students retrieve from memory other, recognizable but less familiar, words that contain the studied element.
- 4. Have students locate and underline the morpheme in a list of words containing it. Alternatively, have the students complete word sorts.
- 5. Have students participate in morphemic awareness activities (oral manipulation of morphemes in words). Use felts or chips to represent the morphemes you move just as you would for phonemic awareness activities. (See Donah's text for scripted activities.)

Instructor: Say constructed.

Instructor: Change the /ed/ in constructed to /ing/.

Instructor: Add re to the beginning of constructing.

Instructor:

Instructor

Instructor: Add /iv/ to the end of construct.

Student: constructive.

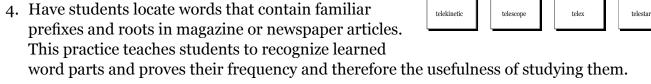
- 6. Have students read phrases/sentences that include examples of words containing element.
- 7. Provide word, phrase, and sentence dictation that includes examples of words containing element.
- 8. Have students write sentences with words containing element.
- 9. Have students locate words that contain familiar prefixes and roots in paragraphs or longer pieces.
- \* Games and other activities can be added or even used instead of some of the activities above. See separate page of supplemental activities.

Supplemental Activities

1. Have students write literal definition of given word using knowledge of element meaning, or have them provide word to match provided literal definition (criss-cross sheets). An example is at right.

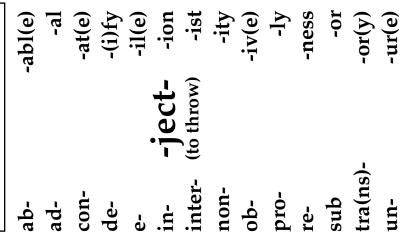
2. Have students build matrix from list of words containing studied element, or have students use teacher-made matrix to generate list of words containing studied element. An example of a matrix for the base - struct- is at right. (Bowers' *Teaching How the Written Word Works* explores this practice and is available at wyced.com.)

3. Have students write a prefix or root in the center, and map or web words that come from that word part. More advanced students can even link those webbed words to other prefixes and roots. An example of a simple word web for the Greek element -tele- is at bottom right.



- 5. Provide students with a "word of the day," which they must analyze at the phonological (phonemes, syllables, blends/digraphs, etc.) and morphological (language of origin, prefix/root/suffix, advanced structures, meaning if possible) levels. This provides both review and a fascinating study!
- 6. Here's an activity to generate words from a single root.

	Instructions:
•	Add prefixes and/or suffixes to the
	root to create a different word for
	each blank. Do not use the suffixes
	$-\underline{s}$ , $-\underline{ed}$ , and $-\underline{ing}$ .
•	Many words can be created using
	two or more suffixes. Occasionally,
	two prefixes can be used in a single
	word as well.
•	An -s can be added to many of the
	verbs and nouns you will createed
	and -ing can be added to many of
	the verbs you will create to change
	tense.



telepathy

telegraph

telecommunications

tele = far

television

telegram

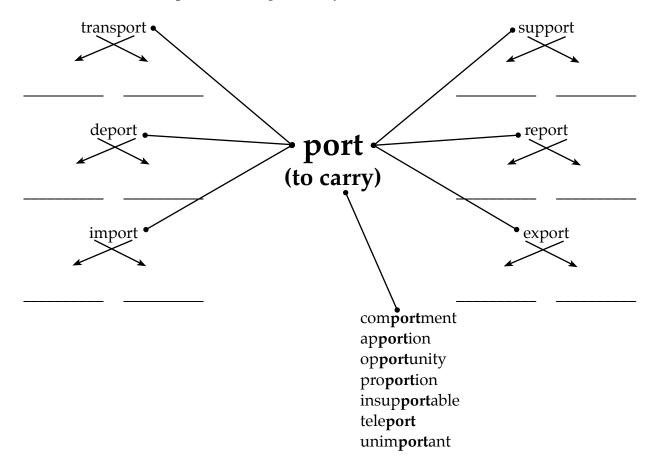
transport

# **Expanded Activities**

1. Suffixes often determine part of speech. Examine these words to see how their parts of speech change as different suffixes are added:

prefix	prefix	root	connective	suffix c	connective	suffix	suffix
inter	de	part		ment		al	ly
dis	pro	port	i	ion		ate	ly
	ad	vent		ur(e)		ous	
		nat		ur(e)		al	ly
	re	med	i	at(e)	i	on	
	ir	reg	ul	ar		ly	

2. A variety of word webs are useful for advanced word structure study. Examine this web for the Latin root <u>port</u>, meaning "to carry."



# A Note on Procedure for Word Origins

A significant conceptual difference exists between basic phonological decoding (division by sound) and morphological work (division by meaning). With morphology we no longer phonological division morphological division

e la tion e lat i on in som ni a con tra dic tion contra dict i on

examine words based on straightforward syllabication; rather, we examine them based on parts for meaning. Examples are above at right. Morphological study leads to an understanding of more challenging spellings and an enhanced vocabulary.

# Recall & Recognition Drills (taken from Shirley A. Kokesh)

After a concept has been taught, it must be drilled if it is to be remembered. Drills are on two levels:

1. Recognition: Instructor provides a set of potential answers and one question.

Student must choose the correct answer from the given set.

2. Recall: Instructor provides one question.

Student must provide the answer from memory.

A great deal of student failure occurs because teachers tend to go from teaching directly to the higher level drill of recall....or testing! While a small percentage of students can function well in such a system, it places most in a position of threat, uncertainty, and insecurity. If students fail, many times the instructor repeats the procedure instead of adding necessary lower level drills of recognition.

For example: After explaining the meanings of three to six morphemes (teaching), if you then say, "Now let's go through these morphemes again, only this time you tell me the definitions," you are testing (recall) not practicing (recognition).

Instead, after teaching the meanings of several new roots or prefixes, insert the following recognition drill:

1. Put three of the word part cards in front of the student:

port struc/struct vid/vis

- 2. Define one of these roots: "to build"
- 3. The student "recognizes" the root he thinks is right by tapping or removing it, saying, "struc/struct."
- 4. The teacher places a new card on top of, or in place of, struc/struct and gives the second definition of the drill.
- 5. If the student chooses the wrong answer, say, "Try again!" Don't display a new card. Rather, define the word that was mistaken so that the student can get immediate feedback to correct his error.
- 6. When all cards have been drilled, then it is appropriate to go to the testing level (recall). Gather cards in a deck. Flash and test: "Give me the definitions for each card you see.

# A Suggested Sequence for Advanced Language Study: First Level Morphology

(Numbers in parentheses cross reference this sequence with my text, Everything You Want To Know & Exactly Where To Find It.)

Below is a sequence to be used as a guideline for elementary students and those who have word attack skills at the elementary level:

1. Elementary students (and those with fledgling word attack skills) should learn what base words, prefixes, and suffixes are and how they influence a word's meaning. Stick with roots that can stand by themselves as words (free morphemes). (80-89)

Focus your study on several key areas:

- understanding basewords, prefixes, and suffixes
- identifying basewords in longer words (e.g., <u>like</u> in <u>unlikely</u>, <u>chair</u> in <u>chairs</u>)
- understanding how prefixes change meaning (e.g., <u>mis</u>use means to use *wrongly*)
- understanding how suffixes change meaning (e.g., cats is more than one cat)
- 2. Begin a pack of basic prefixes (front is prefix followed by a dash, back is key word above meaning). Some instructors use green (for "go") for prefixes. Students should look at the prefix ("un-" for example) and say "un-, unhappy, not," in that order. (Anglo-Saxon prefixes to start 85)
- 3. Then, build a pack of basic suffixes (front is suffix preceded by dash, back is key word above part of speech). Where useful, include meaning. Often, meanings are abstract and obscure, and studying part of speech is more fruitful. Students should look at the suffix ("-ly" for example) and say "ly, likely, usually an adverb" in that order. (89)
- 4. Continue to add basic prefixes and suffixes to the students' learned stacks of cards as you introduce other elements of study. Once you have exhausted those that come from Anglo-Saxon, move into the more basic Latin affixes.
- 5. Teach (or review) noun, verb, adjective, and adverb. Without this knowledge students will not be able to apply their knowledge of suffixes.

Some common suffixes by part of speech:

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noun: -ion, -acy, -ance, -ence, -hood, -or, -ism, -ist, -ment, -ness, -ity
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adjective: -al, -ful, -ic, -ish, -like, -ous, -able, -ible

adverb: -ly

verb: -fy, -ate (pronounced /āte/), -ise, -ize, -en

- 6. Teach the way suffixes can change bases; include the terms consonant suffix and vowel suffix.
  - silent-<u>e</u>: drop the <u>e</u> before a vowel suffix (95) e.g., hope + ing = hoping but hope + less = hopeless
  - cvc doubling: 1 syl. word ending in cons.-vowel-cons., double before a vowel suffix (97)

e.g., tap + ing = tapping but ship + ment = shipment send + ing = sending cook + ed = cooked

- y: never drop the y. keep it or change it. vowel-y, keep the y (99) cons.-y, change the y to i unless the suffix begins with i. e.g., cry + ed = cried but stay + ed = stayed cry + ing = crying

7. Often in elementary school, students will have learned some final stable syllables. If these stable syllables are introduced at an earlier stage, it is only for decoding and spelling.

Useful stable syllables to study at first: -tion (155), -ture (161), -age (147), -ous (151), -sion (155), -ate (149), -ive (173)

Put these on cards, complete with hyphen. On the front should be the final stable syllable. On the back should be the pronunciation and a key word.

- 8. (for students with at least 4th grade word attack) Teach the two sounds of <u>c</u> and <u>g</u>. A number of upper elementary and middle school words contain soft <u>c</u> and <u>g</u>, and a number of bound roots at the next level of morphology contain soft <u>c</u> and <u>g</u> as well.
  - two sounds of <u>c</u> and <u>g</u> (<u>c</u> and <u>g</u> are soft before <u>e</u>, <u>i</u>, and <u>y</u>) (37) e.g., cent, cider, cyst, gentle, ginger, gym (words) e.g., -cid-, -cess-, -gen-, -cept-, -ced-, -cycl- (bound roots)
- 9. (for students with at least 4th grade word attack) Teach the Greek Code for reading/decoding. Have your students read words that contain elements of the Greek code on cards. Where appropriate, such words can also be dictated for spelling. Students should learn that words containing these elements usually come from the Greek.

- y acts as <u>i</u>; <u>ch</u> says /k/; <u>ph</u> says /f/ (131) e.g., cyclone, python, echo, chronic, phylum, elephant

# A Suggested Sequence for Advanced Language Study: Second Level Morphology

(Numbers in parentheses cross reference this sequence with my text, Everything You Want To Know & Exactly Where To Find It.)

Though advanced language study is flexible, it is useful to have in mind a sequence to guide your teaching. This sequence depends on the level of the student, the academic courses that student is taking, or a combination of both. Below is a sequence to be used as a guideline for students who have achieved at least fourth grade word attack skills. *Cover concepts on First Level Morphology sequence before beginning with these more advanced elements:* 

1. Begin a pack of four or five basic prefixes (front is prefix followed by a dash, back is key word above meaning). Some instructors use green (for "go") for prefixes. While assimilated (chameleon) prefixes are some of the most common, if you use them at this stage, stick to their base forms and avoid their assimilations (e.g., study in but not im, il, or ir). Students should look at the prefix ("pre-" for example) and say "pre, preview, before," in that order. (regular prefixes - 112-4; assimilated prefixes - 115-23)

8 good prefixes to study at first: pre-, in-, con-, re-, inter-, trans-, ex-, dis-

2. Then, build a pack of four or five roots (front is root surrounded by dashes, back is key word above meaning). Students should look at the root ("-rupt-" for example) and say "rupt, interrupt, to break," in that order. (124-7)

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6 good roots to study at first: -port-, -rupt-, -dic-/-dict-, -ject-, -mit-/-mis-, -spec-/-spect-/-spic-
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- 3. From there, build separate packs of prefixes and roots. Stick to one language of origin for a time before introducing elements of another language.
- 4. If you have already introduced the stable syllables mentioned in the First Level Morphology sequence for decoding, return to them and layer in part of speech and other useful information for meaning and vocabulary development. Continue to build your pack of stable syllables and suffixes. Have your students practice reading and spelling words containing these elements. (Note: Make sure that students have a basic understanding of the key parts of speech.) Here are a few examples of useful stable syllables; more can be found in the text:
  - a. useful stable syllables to study at first:

```
-ment (noun): argument, investment (146)
-ist (people noun): florist, dentist (147)
-or (people noun): instructor, tutor (147)
-ture (noun): nature, adventure (161)
-ize (verb): utilize, systematize (171)
-ive (adjective): talkative, active (173)
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- 5. As students build packs of prefixes, roots, and stable syllables, introduce the major word origins (Anglo-Saxon, Latin, Greek, and maybe French), and discuss their characteristics. Have students practice identifying words by their origins. Remember that the study of advanced word structure is cognitive. In other words you need to teach *how* the language works. Little of this concerns rote memory. (176-8)
- 6. Teach students that -ti- and -ci- say /sh/. Use students' base knowledge of -tion to get to this. (In other words, "if tion says /shun/, what does ti say?") Then, expand your stable syllable pack with /sh/ syllables. You should have a large pack of multisyllablic words that contain these /sh/ structures for reading and eventually spelling. (152-7)

$$-tion = /shun/ \\ -ti- = /sh/ \\ -tial = initial \\ -tient = patient \\ -tiate = initiate \\ -cian = /shun/ \\ -cia = -/sh/ \\ -cial = racial \\ -cian = /shun/ \\ -cia = -/sh/ \\ -cial = racial \\ -cian = /shun/ \\ -cial = racial \\ -cian = -/shun/ \\ -cian = -/shu$$

- 7. Then, teach students - $\underline{\text{ture}}$  (as you taught - $\underline{\text{tion}}$ ) and - $\underline{\text{tu}}$  (as you taught - $\underline{\text{ti}}$ -). (158-9)
  - -ture = /cher/ as in adventure -tu- = /choo/ as in mutual, spatula
- 8. As students continue to build packs of prefixes, roots, and stable syllables, examine the template of a typical Latinate word. Teach the three Latin connectives (-i-, -u-, -ul-). Teach the pronunciations of Latin connective <u>i</u> (e.g., medium, million, aptitude). (111)
- 9. Eventually, teach the breakdown of a Greek word (including elements and connective  $\underline{o}$ ). (129)
- 10. Teach assimilated/chameleon Latin prefixes. (115-23)
  - e.g., <u>ad</u> changes to <u>ar</u> before <u>r</u> to make <u>arrange</u> <u>dis</u> changes to <u>dif</u> before <u>f</u> to make <u>differ</u> <u>in</u> changes to <u>im</u> before <u>b</u>, <u>m</u> and <u>p</u> to make <u>imbibe</u>, <u>immobile</u>, and <u>impolite</u>

# **Exploring Assimilated Prefixes**

<u>Explanation</u>: For ease of pronuncation, the final letter of an assimilated prefix changes according to the initial letter of the base to which it is attached. These prefixes are often nicknamed chameleons because a chameleon changes its colors to blend with its surroundings, much like the assimilated prefix.

#### ex and dis:

ex drops x (e.g., eject), dis, drops s (e.g., divide) ex changes to ef before f (e.g., effect), dis changes to dif before f (e.g., differ) (rare ex: ex changes to ec in some situations)

#### ad:

ad retains d before d (e.g., addition)

ad to ac before c (e.g., accelerate) ad to af before f (e.g., affect) ad to ag before g (e.g., aggressive)

ad to al before l (e.g., alliance) ad to an before n (e.g., announce) ad to ap before p (e.g., apply)

ad to ar before r (e.g., arrange) ad to as before s (e.g., assert) ad to at before t (e.g., attract)

# 

#### ob and sub:

ob to oc before c (e.g., occasion), sub to suc before c (e.g., succeed)

ob to of before f (e.g., offer), sub to suf before f (e.g., suffer)

ob to op before p (e.g., opponent), sub to sup before p (e.g., support)

(rare ob: o before m; os before c or t)

(rare sub: sug before g; sum before m; sur before r; sus before c, p, or t)

#### in and con:

in can retain n before n (e.g., innate), con retains n before n (e.g., connect) (rare: in can change to ig before n)

in to im before b, m, p (e.g., imbalanced), con to com before b, m, p (e.g., combine) in to il before l (e.g., illegal), con to col before l (e.g., collect) in to ir before r (e.g., irrational), con to cor before r (e.g., correct)

# Using Common Morphemes to Understand

challenge	sister word	shared meaning
perturbed	disturb	
benefactor	benefit	
rupture	disrupt	
amiable amicable	amigo	
envision	vision	
enclosure	close	
antibiotic	antisocial biology	
autobiography	automobile biology paragraph	
euphony euthanasia	euphemism eulogy	
geothermal	geography Thermos	

# Latin & Greek Activity Sheet

beneficial	biography	Latin template: 55% of English words  prefix root suffix  connective (usually i)
thermometer	autograph	
		Greek template: 11% of English words  prefix root suffix
legal	position	connective o
		-
		-

# **Identifying Morphemes** Discovery Learning Underline the <u>root</u>. Box the prefix(es) and/or suffix(es). Write a word underneath each word that shares its root. examples: confide contractual examples: eruption counterproposal examples: degenerative leader = \_\_\_\_ obstructed examples: psychometrics photographic examples: synchronize sympathetic

# A Technique for Reviewing Word Parts & Vocabulary Terms Independently

ards use	rm your "BOX" Word up, definition down:	convention	delegate	definition?	Set it aside, and place a new card in your box.	<ul> <li>WO carefully review the back of the card until you feel you know it, then put it back in your box, and choose another card from your box to answer.</li> <li>No card leaves the box until you get it right once. Keep putting aside the cards you know and reviewing the ones you don't until you know them all!</li> <li>Iow try it with the definitions up!</li> <li>This is a much more effective way to learn your cards than just flipping through the deck!</li> <li>"The Box Method" William Van Cleave &amp; Shirley Kokesh Instruction sheet by Susan Schambach and Chery! Swanson, Triad Academy, Winston-Salem, N.C.</li> </ul>
To study your cards use "The Box Method"	to form your "B Word up, c	democracy	primary	uiz yourself Pick up a card, do you know the definition?	ide, and place a	efully review the back of the card ur our know it, then put it back in your noose another card from your box to ard leaves the box until you get it righting aside the cards you know lewing the ones you don't until you know with the definitions up!  Than just flipping through the deck!  The Box Method" William Van Cleave & Shirley Kokesh et by Susan Schambach and Cheryl Swanson, Triad Academy, Winster
To st " <b>The</b>	1) Put down 4 cards to form your "BOX" Word up, defin			2) Quiz yourself Pick up a card, o	YES! Set it as	<ul> <li><b>NO</b> carefully review the back o you know it, then put it the choose another card from the card leaves the box until Keep putting aside the cal and reviewing the ones you don't and reviewing the definitions up!</li> <li>3) Now try it with the definitions up!         This is a much more effective way than just flipping throug than just flipping throughout the by Susan Schambach and Chery! Swanson Cleave Instruction sheet by Susan Schambach and Chery! Swanson     </li> </ul>

# Identifying Morphemes: The /shun/ Question

- 1. Underline the root.
- 2. Box the affixes.

	contraction	regression	magician
Guess	contraction	regression	magician
Correct Answer	contraction	regression	magician

# Latin Connectives Practice Sheet

Underline roots, circle connectives, and box affixes.

expedient spatula

muscular alleviate

petunia testimony

magnitude impediment

virtuous imperial

continual egregious

gratify radiant

hysteria unofficial

spectacular appreciate

monument editorial

cautious malicious

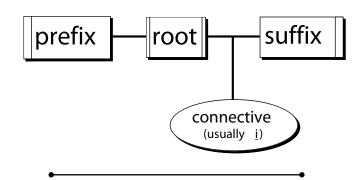
deficiency exponential

popular suburbia

evaluate injurious

tempestuous parsimonious

brilliant marsupial



Three key Latin connectives are <u>i</u>, <u>u</u>, and <u>ul</u>. You should accent the syllable that comes before the Latin connective:

**sól** i tude **món** u ment **rég** ul ate

<u>u</u> and <u>ul</u> are always long:

promisc<u>u</u>ous man<u>u</u>al musc<u>ul</u>ar

Latin connective <u>i</u> is by far the most common.

Use these rules for pronouncing it:

1.  $\underline{\mathbf{i}} = /\bar{\mathbf{e}} / \text{ before a vowel suffix: curious}$ 

2.  $\underline{\mathbf{i}} = /\mathbf{y}/ \text{ after } \underline{\mathbf{l}} \text{ or } \underline{\mathbf{n}}$ : peculiar

3.  $\underline{\mathbf{i}} = /\mathbf{i}$  / before a consonant: multitude

A sampling of useful suffix rules:

-ous = adjective -ate  $/\bar{a}t/$  = verb

-us = noun -ate /et/ = adj./noun

# **Word Sort:** Sort words by morpheme.

benevolent pedometer	compelling polygamy	benefactor compulsory	pedal impulsivity beneficial
polyester repulsive	expedient benign	polygon impediment	
	Denign	Impediment	polyglot
<u>ped</u>	poly	<u>bene</u>	<u>pel/puls</u>

# Continuum Vocabulary: \_\_\_\_\_

angry	irascible	smart	shrewd
raging	infuriated	intelligent	insightful
wild	enraged	clever	brainy
tempestuous	irate	fast	wise
wrathful	provoked	sharp	bright
furious	aggravated	astute	brilliant
mad	livid		
huffy	indignant		
hot under	outraged		
the collar			

Textbook Vocabulary Activity Sheet	Book Title:	Page(s):
1. List all words your <b>average</b> student won't know.	2. Necessary content words 3. Necessary "life" words your average student won't know. your average student won't know.	3. <b>Necessary</b> "life" words your average student won't know.
72		
	4. Unnecessary content words your average student won't know.	our average student won't know.

# Useful Resources (\* not available at wvced.com)

#### Advanced Word Structure & History of the English Language:

Anderson, C. Wilson, T. Elli Cross, and Joan Stoner. VAK Tasks, Intermediate Prefixes, Roots and Suffixes series, Essential Roots series, Essential Prefixes series. Workbook of Resource Words for Phonetic Reading. wvced.com.

\* Beck, Isabel L., Margaret G. McKeown, Linda Kucan. *Bringing Words to Life, Second Edition: Robust Vocabulary Instruction*. 2013. guilford.com.

\* Beck, Isabel L., Margaret G. McKeown, Linda Kucan. Creating Robust Vocabulary: Frequently Asked Questions and Extended Examples. 2008. guilford.com.

Bowers, Peter. Teaching How the Written Word Works. wvced.com.

\* Carreker, Suzanne. Word Detective: Discovering The History of The English Language. neuhaus.org.

Donah, Sandra. Improving Morphemic Awareness Using Latin Roots & Greek Combining Forms. wvced.com.

Gold, Diane Hickey, Elaine Russo, Linda Wallace, Judy Shapiro. PS: Prefixes, Suffixes, Roots (A Resource of Lists, Phrases, Sentences, Poems, and Stories). wvced.com.

Kemmer, Suzanne. Words In English (website). ruf.rice.edu/~kemmer/Words04

\* King, Diana Hanbury. English Isn't Crazy! The Elements Of Our Language And How To Teach Them. proedinc. com.

Kleiber, Margaret. Specific Language Training: An Orton-Gillingham Curriculum for Adolescents. wvced.com.

Morgan, Kenneth B. Dynamic Roots - Language Training Program. wvced.com.

Van Cleave, William. Everything You Want To Know & Exactly Where To Find It: A Reference Guide for Teachers of Orton-Gillingham & Other Multisensory Approaches. wvced.com.

Van Cleave, William. Phrases & Sentences for Reading & Spelling. wvced.com.

### Vocabulary & Morphology Websites:

dictionary.com vocabulary.com etymonline.com visualthesaurus.com

matrix maker (Bowers & Ramsden): http://www.neilramsden.co.uk/spelling/matrix/index.html

### **Some Good Morpheme Lists:**

http://drpaulasprescriptions4pd.wikispaces.com/file/view/Root+words+in+content+areas.pdf

http://www.4gaslps.com/CommonRootWd4MSciSocSt.pdf (simple lists for math, science, social studies)

http://www.owasso.k12.ok.us/webpages/rcollins/files/greek%20and%20latin%20root%20words.pdf (biology morphemes)

http://academic.cuesta.edu/acasupp/as/506.HTM (morphemes grouped in interesting ways)

http://www.biologycorner.com/worksheets/language.html (science roots)

http://www.asdk12.org/middlelink/LA/vocabulary/forms/Greek\_Latin\_Roots.pdf

(1 simple page for each of math, science, social studies, and language arts)

http://sscking.files.wordpress.com/2013/01/list\_-\_root\_words.pdf (more comprehensive science morpheme list)

http://www.readwritethink.org/files/resources/printouts/content-area-roots.pdf (roots cross referenced by content with words for each content)

http://ancienthistory.about.com/od/mathematics/a/061210EtymologyGeometryTerms.htm (math terms in depth)

# **Research Supporting Morphological Intervention:**

Bowers, P. N., Kirby, J. R, & Deacon, S.H. 2010. "The effects of morphological instruction on literacy skills: A systematic review of the literature." *Review of Educational Research*, 80, 144–179.

Goodwin, A. P., & Ahn, S. 2010. "A meta-analysis of morphological interventions: effects on literacy achievement of children with literacy difficulties." *Annals of Dyslexia*, 60, 183–208.

Goodwin, A. P. & Ahn, S. 2013. "A Meta-Analysis of Morphological Interventions in English: Effects on Literacy Outcomes for School-Age Children." *Scientific Studies of Reading*, 1–29, 2013.

# Tracking Word Origins

# 55% Latin Words:

# Anglo-Saxon Words: 20%

# Greek Words:

# -suffix **General Trends** root connective (usually <u>o</u>) root prefix

often involve science, school, or the arts

# **General Trends**

basic color words: brown, green numbers 1-1000: one, twenty

usually one syllable words

suffix

root

prefix

**General Trends** 

simple body parts: arm, throat

connective (usually i)

most sight words: could, do

short words with silent letters: ghost, know most vowel teams: boat, toil

few vowel teams besides ai: assail, retain

usually multisyllabic words

# Common Structures

Common Structures

#-I<u>II-ss</u> words: cliff, tall, grass  $\underline{ch} = /ch/$ : chair, chin, church

connective a: democrat, photograph

ph = /f/: phobia, phonics, typhoon y = i: cyclone, gym, myth, type

ck, tch, and dge: trick, witch, grudge

 $\underline{ti}$ ,  $\underline{si}$ , and  $\underline{ci} = /sh/$ : notation, racial

 $\underline{tu} = /choo/$ : eventual,

fortunate, spatula

monument, muscular, solitude connectives  $\underline{i}$ ,  $\underline{u}$ , and  $\underline{ul}$ : mediate,

th in short words: than, thin, thick

 $\underline{k}$  in short words: kelp, kill, kind

<u>wh</u>: when, whisper

 $\underline{ch} = /k/$ : monarch, orchid, school

 $\underline{k}$  in longer words: kilometer, kinesthetic

silent initial p. pneumonia, psychology th in longer words: athlete, thyroid

archaeology, biology ending -ic: charismatic, chronic, music

ending -ology:

wild/old words: child, pint, post, told

le words: bubble, fizzle, trickle

ng: hang, song, sting

<u>wr</u>: wrist, write

attention, collapse,

chameleon prefixes:

difference, illegal

soft <u>c</u> before <u>e</u> or <u>i</u>: ct, pt: act, tempt

certain, city

2 syllable consonant-

Common Structures

ture = /cher/: adventure,

furniture, nature