

Dynamic Vocabulary Instruction in the Secondary Class

Anita L. Archer, Ph.D.

archerteach@aol.com

The content of this presentation is expanded in Chapter 4 of the following book: Archer, A., & Hughes, C. (2011). *Explicit Instruction: Effective and Efficient Teaching*. NY: Guilford Publications.

.



- Importance of Vocabulary
- Components of a Vocabulary Program
- Quality Classroom Vocabulary
- Explicit Vocabulary Instruction
- Word Learning Strategies
- Assessment Formats



Importance of Vocabulary Instruction

- Receptive Language
 - Reading Comprehension (Chall, Jacobs, & Baldwin, 1990; Scarborough, 1998, Stahl & Fairbanks, 1987)
 - Listening Comprehension
- Expressive Language
 - Writing
 - Speaking
- Overall Reading Achievement (Stanovich, et al., 1993)
- Overall School Success (Becker, 1977; Anderson & Nagy, 1991)
- Hallmark of an Educated Individual (Beck, McKeown, Kucan, 2002)

3

2012 Kansas MTSS Symposium

•



Importance of Vocabulary Instruction

- Vocabulary Gap
 - Linguistically "poor" first graders knew 5,000 words;
 linguistically "rich" first graders knew 20,000 words. (Moats, 2001)
 - Children who enter school with limited vocabulary knowledge grow more discrepant over time from their peers who have rich vocabulary knowledge. (Baker, Simmons, & Kame'enui, 1997)
 - The number of words students learn varies greatly.
 - 2 versus 8 words per day
 - 750 versus 3000 words per year

Э



Importance of Vocabulary Instruction

- Vocabulary Gap
 - Gap in word knowledge persists though the elementary years. (White, Graves, & Slater, 1990)
 - The vocabulary gap between struggling readers and proficient readers grows each year. (Stanovich, 1986)
 - After the primary grades, the "achievement gap" between socioeconomic groups is a language gap. (Hirsh, 2002)
 - For English Language Learners, the "achievement gap" is primarily a vocabulary gap. (Carlo, et al., 2004)

6



Components of a Vocabulary **Program**

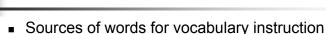
- High-quality Classroom language (Dickinson, Cote, & Smith, 1993)
- Explicit Vocabulary Instruction (Baker, Kame'enui, & Simmons, 1998; Baumann, Kame'enui, & Ash, 2003; Beck & McKeown, 1991; Beck, McKeown, & Kucan, 2002; Biemiller, 2004; Marzano, 2004; Paribakht & Wesche, 1997)
- Word-Learning Strategies (Buikima & Graves, 1993; Edwards, Font, Baumann, & Boland, 2004; Graves, 2004; White, Sowell, & Yanagihara, 1989)
- Wide Independent Reading (Anderson & Nagy, 1992; Cunningham & Stanovich, 1998; Nagy, Anderson, & Herman, 1987; Sternberg, 1987)



High Quality Classroom Language

- Use high quality vocabulary in the classroom.
- To ensure understanding,
 - Tell students the meaning of words when first used.
 - "Don't procrastinate on your project. Procrastinate means to put off doing something."
 - Pair in the meaning of the word by using parallel language.
 - "Let's analyze this equation. Let's figure it out."
 - "What was the significance of this incident..this event?"
 - "We need to differentiate..tell the differences.. between external and internal character problems."

Explicit Vocabulary Instruction



- WORDS from core reading programs
- WORDS from reading intervention programs
- WORDS from content area instruction
 - Language Arts
 - Math
 - Science
 - Social studies
 - Health
 - Consumer Science
 - Art, PE, music, etc.



Explicit Vocabulary Instruction- Selection of Vocabulary

- Select a limited number of words for robust, explicit vocabulary instruction.
- Three to ten words per story or section in a chapter would be appropriate.
- Briefly tell students the meaning of other words that are needed for comprehension.

10



Explicit Vocabulary Instruction- Selection of Vocabulary

- Select words that are unknown.
- Select words that are important to passage understanding.
- Select words that students are likely to encounter or use in the **future**. (Stahl. 1986)
- Select difficult words that need interpretation.
 - Abstract referent versus concrete
 - Unknown concept versus known concept
 - Less common word usage versus common
 - Not defined in context



Explicit Vocabulary Instruction - Selection of Vocabulary

- Tier One Basic words
 - chair, bed, happy, house, car, purse
- Tier Two Words in general use, but not common (Academic Vocabulary)
 - analyze, facilitate, inherent, fundamental, supplement, equivalent, inevitable
- Tier Three Rare words limited to a specific domain (Background Vocabulary)
 - tundra, totalitarian, cellular respiration, genre, foreshadowing, monoculture farming, judicial review

Explicit Instruction - Practice Activity Select 5 words for robust explicit instruction.

Reading Level: Eighth Grad Series: Prentice Hall		Passage: Breaker's Bridge Words: *Selected for instruction in manual.	
obstacle*	district	amplify	
writhing*	gorge	imperial	
piers*	miniature	emerged	
executioner*	defeated	insult	
immortals*	desperation	deposited	
emperor	supervising	deadline	

4

Explicit Vocabulary Instruction - Selection of Vocabulary

In content area classes, add "Academic Vocabulary" to content area words.

Example: Holt World History: The Human Journey, Chapter 13, Section 2

- Suggested words feudalism, fief, vassal, primogeniture, manorialism, serfs, chivalry
- Added "Academic Vocabulary" inherit, inheritance; analyze, analysis

14

13

Preparation -Student-Friendly Explanations



- compulsory (1) Employing compulsion;
 coercive. (2) Required by law or other rule.
- Student-Friendly Explanation
 - Uses known words.
 - Is easy to understand.
 - When something is required and you must do it, it is compulsory.



Instructional Routine - General Vocabulary

Step 1. Introduce the word.

- a) Write the word on the board or overhead.
- Read the word and have the students repeat the word.

 If the word is difficult to pronounce or unfamiliar have the students repeat the word a number of times.

Introduce the word with me

This word is compulsory. What word? compulsory Compulsory is an adjective.

15

Anita Archer

Instructional Routine - General Vocabulary (continued)

Step 2. Introduce meaning of word.

Option # 1. Present a student-friendly explanation.

- a) Tell students the explanation. OR
- b) Have them read the explanation with you.

Present the definition with me.

When something is required and you must do it, it is <u>compulsory</u>. So, if it is required and you must do it, it is <u>compulsory</u>.

17

Explicit Vocabulary Lessons - Secondary

Instructional Routine - General Vocabulary (continued)

Step 2. Introduce meaning of word.

Option # 2. Have students locate the definition in the glossary or text.

- Students locate the word in the glossary or text.
- Students break the definition into the critical attributes (parts).

Glossary Entry: An essay is a short nonfiction work about a particular subject. Most essays have a single major focus and a clear introduction, body, and conclusion.

Essay

- Short
- Nonfiction work
- Particular subject
- Clear introduction, body, and conclusion

18

Instructional Routine - General Vocabulary (continued)

Step 2. Introduce meaning of word.

Option # 2. Introduce the word using the morphographs in the word.

autobiography
 auto = self
 bio = life
 graph = letters, words, or pictures

If the students are Spanish speakers, guide students to utilize cognates.

Instructional Routine - General Vocabulary (continued)

Step 3. Illustrate the word with examples.

- Concrete examples.
- Visual examples.
- Verbal examples.

(Also discuss when the term might be used and who might use the term.)

Present these examples with me.

Coming to school as 8th graders is compulsory.

Stopping at a stop sign when driving is compulsory.

Instructional Routine -General Vocabulary (Continued)

Step 4. Check students' understanding. Option #1. Ask deep processing questions.

Check students' understanding with me

Why do you think something becomes compulsory?

Instructional Routine -General Vocabulary (continued)

Step 4. Check students' understanding. Option #2. Have students discern between examples and non-examples.

Check students' understanding with me.

Is going to school in 9th grade compulsory? Yes How do you know it is compulsory? It is required. Is going to college when you are 25 compulsory? no

Why is it not compulsory? It is not required. You get to choose to go to college.

21

22

Instructional Routine -General Vocabulary (continued)

Step 4. Check students' understanding. Option #3. Have students generate their own examples.

Check students' understanding with me.

There are many things at this school that are compulsory? Think of as many things as you can.

Talk with your partner. See how many things You can think of that are compulsory.



Vocabulary Instruction -

Extensions

- Introduce the part of speech.
- Introduce synonyms (same), antonyms (opposite), homographs (same spelling - different meaning).
- Tell students when and where the word is often **used**.
- When appropriate, introduce the **etymology** (history 4. and/or origin) of the word.
- Introduce other words in the same word family 5. (derivatives).



Vocabulary Instruction

Remember: After a word has been taught, introduce students to the relatives.

conform conforms conformed conformity conformist non-conformist non-conforming

non-conformity

advocate advocating advocacy

25



Practice A - General Vocabulary

Step 1: Introduce the word.

This word is **analyze**. What word? Analyze is a verb, an action of people.

Step 2: Introduce the meaning using a student friendly explanation.

When you carefully think about something in detail so that you can explain it, you **analyze** it. If you carefully think about something in detail so you can explain it, you _____.

26



Practice A - General Vocabulary

Step 3. Illustrate with examples.

For example, when you carefully examine data from a science experiment, you _____.

When you carefully examine a graph in social studies, you ____.

When you carefully compare two meal plans for their nutritional value, you

Step 4. Check understanding.

Tell your partner some things that you analyze in school.



Practice A - General Vocabulary Extensions

■ Word Family - Relatives

Let's read some words related to analyze. Say each word after me.

> analyze analyzing analyzed analysis analyzable analyzer

27



Practice A - General Vocabulary Extensions

This words are in the same word family as analyze. When I touch the word, please say it.

When we examine the results of a science experiment, we _____(analyze) them.

Thus, _____(analyzing) experimental results is a major action in science class.

In the past, you ______(analyzed) data in science class.

You often had to write up your ______(analysis).

If the results were easy to explain, the results were ______(analyzable).

When you analyzed the results, you were the ______(analyzer).

29

4

Practice A - General Vocabulary Extensions

Synonyms

Working with your partner, generate a list of words that are synonyms for **analyze**. You may use your dictionary, thesaurus, or electronic reference sources.

Students suggest:

examine explore
think study
contemplate look over
inspect check
investigate monitor

scrutinize assess

30



Word-Learning Strategies

- Use of context clues.
- Use of dictionary, glossary, or other resource.
- Use of meaning parts of the word.
 - Prefixes
 - Suffixes
 - Root words



Word-Learning Strategies-Use of context clues

- Teach students to use context clues to determine the meaning of unknown vocabulary. (Gipe & Arnold, 1979)
- However, if a student reads 100 unfamiliar words in print, he/she will only learn between 5 to 15 words.

(Nagy, Hermann, & Anderson, 1985; Swanborn & de Glopper, 1999)

31



Word Learning Strategies-

Use of context clues

- Strategy #1 Context Clues
- 1. Read the sentence in which the unknown word occurs for clues as to the word's meaning.
- Read the surrounding sentences for clues as to the word's meaning.
- 3. Look at the parts of the word (prefixes, roots, suffixes).
- 4. Ask yourself, "What might the word mean?"
- 5. Try the possible meaning in the sentence.
- 6. Ask yourself, "Does it make sense?"



Word Learning Strategies - Use of glossary/dictionary

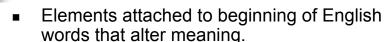
Strategy #2 - Glossary/Dictionary

- Locate the unknown word in the glossary or the dictionary.
- 2. Read each definition and select the best one.
- 3. Try the possible meaning in the sentence.
- 4. Ask yourself, "Does it make sense?"

33

34

Word Learning Strategies - Prefixes



- Prefixes are useful because they are
 - used in many words,
 - consistently spelled,
 - easy to identify,
 - clear in meaning. (Graves, 2004)
- Teach very common prefixes. Un, re, in, and dis found in 58% of prefixed words.



The Most Common Prefixes in English

Prefix	Meaning	% of prefixed words	Examples
un	not; opposite	26%	uncover, unlock, unsafe
re	again; back	14%	rewrite, reread, return
in/im/ir/il	not; into	11%	incorrect, insert, inexpensive, illegal, irregular, inability
dis	away, apart, negative	7%	discover, discontent, distrust
en/em	cause to	4%	enjoy, endure, enlighten, entail
mis	wrong; bad	3%	mistake, misread, misspell, misbehave
pre	before	3%	prevent, pretest, preplan
pro	in favor of	1%	protect, profess, provide, process
а	not; in, on, without	1%	atypical, anemia, anonymous, apolitical, apathy



Word Learning Strategies -Suffixes

- Elements attached to ending of English words.
- Can change the part of the speech or the meaning.
- Focus on common derivational suffixes.
 - able, ful, less, ness, or
- Introduce the suffix and use to determine the meaning of a number of words (ful -helpful, truthful, mouthful, joyful).
- But not always! grateful

37



Word Learning Strategies Roots (Greek and Latin Roots)

When teaching a word with a Greek or Latin root, use it as an opportunity to introduce the meaning of the root. Introduce the root within the target word and then expand to other words.

Example: hydroelectricity

"This word is hydroelectricity."

"The first part of the word is **hydro**. Hydro is a root that means water. So in this chapter the word hydroelectricity refers to electricity produced by the movement of water."

"Let's look at some other words that include hydro."

dehydration hydraulic hydroplane hydroelectric hydrophone hydrophobia

Most Common Suffixes in English

Suffix	Meaning	%of prefixed words	Examples
s, es plural	more than one	31%	movies, wishes, hats, amendments
ed past tense	in the past	20%	walked, jumped, helped
ing present tense	In the present	14%	walking, jumping, helping
ly adverb	how something is	7%	quickly, fearfully, easily, happily, majestically, nonchalantly
er,or noun	one who, what/that/which	4%	teacher, tailor, conductor, boxer, baker, survivor, orator
ion, tion, sion noun	state, quality; act	4%	action, erosion, vision, invitation, conclusion, condemnation
able, ible adjective	able to be, can be done	2%	comfortable, likable, enjoyable, solvable, sensible, incredible
al, ial adjective	related to, like	1%	fatal, cordial, structural, territorial, categorical

Common Latin and Greek Roots

aqua	water	Greek	aquarium, aqueduct, aquaculture, aquamarine, aquaplane, aquatic
aud	hearing	Latin	audio, audition, audiovisual, auditorium, audiotape, inaudible
auto	self	Greek	autograph, autobiography, automobile, autocrat, autonomy
astro	star	Greek	astronomy, astrophysics, astrology, astronaut, astronomer, asterisk
biblio	book	Greek	Bible, bibliography, bibliophobia, bibliophile, biblioklept
bio	life	Greek	biography, biology,autobiography, bionic, biotic, antibiotic, biome, bioshere, biometrics
chrono	time	Greek	synchronize, chronology,chronic, chronicle, anachronism
corp	body	Latin	corpse, corporation, corps,incorporate, corporeal, corpulence
demo	the people	Greek	democracy, demography,epidemic, demotic, endemic, pandemic
dic, dict	speak, tell	Latin	dictate, dictation, diction, dictator, verdict, predict, contradict, benediction, jurisdiction, predict, indict, edict
dorm	sleep	Latin	dormant, dormitory, dormer, dormouse, dormition, dormitive
geo	earth	Greek	geology, geologist, geometry, geography, geographer, geopolitical, geothermal, geocentric

Common Latin and Greek Roots

graph	to write, to draw	Greek	autograph, biography, photograph, telegraph, lithograph	
hydro	water Greek hydropla		hydroplane, dehydrate, hydroelectric, hydrogen, hydrophone	
ject	throw	throw Latin reject, deject, project, inject, injection, projection		
logos, logy	study	Greek	kk geology, astrology, biology, numerology, zoology, technology, psychology, anthropology, mythology	
luna	moon	Latin	lunar, lunacy, lunatic, interlunar	
meter	measure	Greek	meter, thermometer, diameter, geometry, optometry, barometer, centimeter, symmetry, voltammeter	
mega	great, large, big Greek megaphone,megalith, megalomania, megatons, megalopol		megaphone,megalith, megalomania, megatons, megalopolis	
min	small, little	Latin	minimal, minimize, minimum, mini, miniature, minuscule, minute, minority	
mit, mis	send	Latin	mission, transmit, transmission, remit, missile,submission, permit, emit, emissary	
path	feeling, suffering	Greek	pathetic, pathology, apathy, antipathy, sympathy, telepathy, empathy, sociopath	
ped	foot	Latin	pedestrian, pedal, peddle, peddler, pedicure, pedometer	
philia	love, friendship	Greek	philosopher, Philadelphia, philanthropist, philharmonic, Philip	

Word Learning Strategies-Word Families

- A group of words related in meaning. (Nagy & Anderson, 1984)
- If you know the meaning of one family member, you can infer the meaning of related words.

enthusiasm enthusiastic enthusiastically	collecting collection	educated education
·	collector	educator

unpredictability

mperial	predict	communicate	evalua
mperialism	prediction	communicated	evaluat
mperialistic	predictable	communicating	evaluat
	predictability	communication	

unpredictable

Common Latin and Greek Roots

phono	sound	Greek	phonograph, microphone, symphony, telephone, phonogram, megaphone, phony, euphony, xylophone, phony,
photo	light	Greek	photograph, photosynthesis, telephoto, photometer, photophilia
port	carry	Latin	port, transport, transportation, portable, portage, report
spect	see	Latin	respect, inspection, inspector, spectator, spectacles,prospect
scope	look at	Greek	microscope, telescope, periscope, kaleidoscope, episcopal
sol	sun	Latin	solar, solar system, solstice, solarium, parasol
struct	build, form	Latin	instruct, instruction, construction, reconstruction, destruct, destruction, infrastructure, construe, instrument, instrumental
tele	distant	Greek	telephone, television,telegraph, telephoto, telescope, telepathy, telethon, telegenic
terra	land	Latin	territory, terrestrial, terrace, terrarium, extraterrestrial, Mediterranean Sea, terra cotta, subterranean

42

Word Learning Strategies -Word Families

Word Family

educate educated education educator

Introduce the words in relationship to each other.

"Teachers teach you how to read and write. They educate you. When you learn to read and write, you are educated. In school, you get an education. A teacher is an educator."



Vocabulary Assessment -Formats

Examples/Non-examples

- proclaim
 - A woman refuses to talk to reporters about the election.
 - A woman tells reporters which candidate won the election.

grudgingly

- A child makes her bed only after five reminders.
- A child immediately makes her bed in the morning, carefully lining up the pillows.



■ Sentence Rewriting

Formats

■ Mr. Jones commended Charles for his diligent_work.

Vocabulary Assessment -

46

Vocabulary Assessment -Formats



- Context Analysis
- After the prize winners were announced, Stacy ran to console Meg.
- How do you think Meg had done on the contest?
- When father heard Lisa had ripped up the letter from Steve, father commended her for it.
- What do you think father thought of Steve?