Dee Gardner RITELL Conference 2015

From Fiction to Fact: Academic Vocabulary Training for Young English Language Learners

Examples of Specialized (Technical) Words within Disciplines

FICTION 1	#	AM HISTORY 2	#	MATHEMATICS 3	#	LIFE SCIENCE 4	#
WESTING	361	MISSOURI	61	DECIMAL	468	ORGANISMS	393
WEXLER	156	WAGONS	41	DECIMALS	330	JPG	365
SYDELLE	135	OREGON	38	TRIANGLE	217	WIKIMEDIA	340
THEO	133	FE	35	INTEGERS	189	BACTERIA	316
OTIS	118	JACKSON	34	DENOMINATOR	176	DNA	278
PULASKI	108	MORMONS	32	TRAVIS	146	FUNGI	188
BAUMBACH	99	KANSAS	29	RECTANGLE	145	ORGANISM	157
HEIRS	90	THOREAU	29	SUBTRACT	107	TRAITS	157
DOUG	88	OHIO	28	SUBTRACTION	106	NUTRIENTS	156
DENTON	55	WHALING	27	ZERO	100	GNU-FDL	152
THEODORAKIS	52	ELLEN	26	GRID	98	MOLECULES	137
MCSOUTHERS	51	MANJIRO	25	TANIA	97	CHROMOSOMES	131
DOORMAN	47	PIONEERS	25	CONGRUENT	95	REPRODUCTION	125
PLUM	42	VIRGINIA	24	NUMERICAL	88	MAMMALS	121
BARNEY	36	LINCOLN	23	NUMERATOR	87	REPRODUCTIVE	120
HEIR	35	ABOLITIONISTS	22	UNDERLINE	87	MEMBRANE	119
NORTHRUP	35	BOWDITCH	22 22	PARALLELOGRAM	84 81	DIGESTIVE PATHOGENS	118 114
MADAME SHIN	33 32	SALEM EMERSON	21	MEDIAN DENOMINATORS	77	DIOXIDE	113
WINDKLOPPEL	32 31	POLK	20	ISAAC	77	CC-BY-SA	112
INTERN	28	FORT	19	PERCENTS	76	PROTISTS	105
DRESSMAKER	26 24	NATHANIEL	19	MARC	76 75	RESPIRATORY	103
CRUTCH	23	TELEGRAPH	19	INTEGER	74	PREY	95
WINDSOR	23	JEFFERSON	18	REAL-WORLD	74	ECOSYSTEM	94
SIKES	21	MELVILLE	18	HOWSTUFFWORKS	68	IMMUNE	89
DUMB	17	OBERLIN	18	HUNDREDTHS	66	CARDIOVASCULAR	88
BABA	16	PHILADELPHIA	18	PERIMETER	65	CHROMOSOME	86
BRAID	16	PONY	18	CYLINDER	59	DARWIN	85
ALICE	15	ANDREW	17	LARRY	56	PHOTOSYNTHESIS	85
CORPSE	15	JULIA	17	POLYGON	56	LYMPH	83
ERICA	15	LOUIS	17	CIRCUMFERENCE	54	RESPIRATION	81
ROSALIE	15	TH-CENTURY	17	PARENTHESES	54	CC-BY	79
BERTHE	14	CALHOUN	16	KYLE	53	NUCLEUS	79
FIREWORKS	13	CINQUE	16	ISABELLE	51	FOSSIL	77
FLASK	13	FRONTIER	16	DILEMMA	49	ALLELE	76
RUG	13	LUCY	16	ANDERSEN	47	AMINO	74
SNOWBOUND	13	PEALE	16	SINGLE-VARIABLE	44	OFFSPRING	72
WESTINGTOWN	12	STANTON	16	GCF	43	BIOLOGY	68
GRACIE	11	ABRAHAM	15	SUBTRACTING	43	AQUATIC	67
PODIATRIST	11	MORSE	15	INVERSE	42	DOMINANT	65
CRUTCHES	10	ADAMS	14	VERTEX	41	ARCHAEA	64
LIMPED	10	DESTINY	14	QUOTIENT	40	VERTEBRATES	63
MA	10	EXPEDITION	14	HSW	39	ATP	62
RECEIPT	10	HOUSTON	14	CUBES	37	ENZYMES	62
SUSPICIOUS	10	ILLINOIS	14	DIVISOR	37	EUKARYOTIC	62
THIEF	10	OXEN	14	JONAH	37	GLUCOSE	62
WPP	10	SIERRA	14	QUADRILATERAL	37	NITROGEN	62
CHIN	9	SUTTER	14	RECTANGULAR	36	CELLULAR	61 60
DUMMY	9 9	ANTISLAVERY	13	RENAME	36 25	FLICKR	60 60
EASTMAN	9	ANTISLAVERY	13	KEVIN	35 25	SKELETAL	60 59
HALLOWEEN TAPESTRY	9	BUREN ANNA	13 12	POLYGONS MATHPLAYGROUND	35 34	DIABETES TERRESTRIAL	59 59
UTTERED	9	BLUBBER	12	BOX-AND-WHISKER	33	TRAIT	59 59
DISGUISE	8	CADY	12	PROTRACTOR	33	UTERUS	59 59
FLUNG	8	CADY	12	RECTANGLES	33	ALLELES	59 58
GOWN	8	CROCKETT	12	STEM-AND-LEAF	33	HOMEOSTASIS	58
HEIRESS	8	NEVADA	12	ZEROS	33	INTESTINE	58
JIMMY	8	OVERLAND	12	ALGEBRAIC	32	PHYLUM	58
LIMP	8	SECESSION	12	DIVISIBLE	32	PNG	58

Adapted from Gardner (2013, pp. 72-73) 1 = The Westing Game (Raskin, 1978); 2 = A History of the US: Liberty for All (Book 5) (Hakim, 1994); 3 = CK-12 Middle School Math—Grade 6 (Brockett, et al., 2010); 4 = CK-12—Life Science: Honors for Middle School (Brainard, et al., 2011)

Examples of Core English Words within Disciplines

FICTION	#	AM HISTORY	#	MATHEMATICS	#	LIFE SCIENCE	#
APARTMENT	56	SLAVE	99	FRACTIONS	408	ORGANISMS	393
TOWERS	53	SLAVERY	99	MULTIPLICATION	172	COMMONS	796
MURDERER	49	INDIANS	69	SIMPLIFY	135	DOMAIN	342
BOMB	25	SLAVES	55	OPERATIONS	110	ORGANS	266
STARED	25	SPANISH	32	ESTIMATION	106	OXYGEN	207
BOMBER	24	SAILORS	26	ROUNDING	92	EVOLUTION	192
ELEVATOR	21	COMPROMISE	24	SQ	71	HUMANS	167
HURRIED	13	SETTLERS	23	VIDEOS	68	FOODS	149
LEANED	13	INDEPENDENCE	23	GRAPHS	60	CYCLE	134
STUPID NODDED	12 12	MEXICANS BLACKS	22 21	REWRITE PM	58 53	GENETIC PROTEIN	126 124
STARING	11	CLAY	20	DISCOUNT	50	PROTEINS	124
WINDY	10	FOUGHT	19	ASKS	46	BONE	124
REMARKED	10	TERRITORIES	19	MULTIPLES	44	GENE	116
SHOUTING	10	DECLARATION	17	COORDINATES	42	GOV	108
VICTIM	10	ARTISTS	16	TENTHS	40	STRUCTURES	104
ATTORNEY	10	CHURCH	16	SLICES	36	ORGAN	102
DRIVEWAY	9	RAILROADS	16	THOUSANDTHS	35	SOURCES	99
PAUSED	9	MINERS	16	SUBSTITUTE	34	SELECTION	92
BET	8	CREW	15	CORRESPONDING	32	GENES	90
CORPORATION	8	TRADERS	14	SCORE	30	SUMMARY	90
CLEARED	7	TRAINS	12	WHOLES	30	PRESSURE	87
BOMBS	7	CIVIL	12	ESTIMATING	30	OBJECTIVES	85
ENGAGEMENT	7	SOUTHERNERS	12	PINTS	27	SUPPLEMENTAL	85
PARTNERS	7	CONSTITUTION	12	SIMPLIFYING	26	CHEMICALS	83
DECORATOR	7 7	DEMOCRACY SAIL	12 12	DISTRIBUTIVE	25 24	THEORY	82 81
MT REFINE	7	SENATE	12	SUPPLEMENTARY DEFINITELY	23	INTERNAL BEHAVIORS	81
TWIN	7	OWNERS	11	MILLILITERS	23	ACIDS	78
ANYHOW	6	POEM	11	PERCENTAGES	23	VIRUS	77
APPOINTMENT	6	LIBERTY	11	PLOTS	22	HYPOTHESIS	72
CHAIRMAN	6	LABOR	10	KILOMETER	21	DRUG	70
MESS	6	MARCH	10	CENTIMETER	18	POPULATIONS	69
SKIES	6	AFRICANS	10	DIMENSION	16	DISCUSSED	66
CANDLE	6	POEMS	10	FORMULAS	16	PHOTOS	62
CHEER	6	MOUNT	10	TRANSFORMATIONS	15	SUBSTANCES	60
DOORWAY	6	PASSENGERS	10	ASSOCIATIVE	14	ADAPTATIONS	59
GHOSTS	6	FREED	9	OPPOSITES	14	SEXUAL	55
MEDAL	6	HAPPINESS	9	EQUIVALENCE	14	TRANSPORT	54
PATTED	6 5	PRESIDENTS MILLS	9 9	PENNIES ADOPTION	14 13	WASTES VIRUSES	53 53
CHILDISH EXPECTING	5 5	MISSIONS	9	CALCULATING	13	ENVIRONMENTAL	53
GEE	5	BANKS	8	OPTIONS	13	ENVIRONMENTS	52
LAUGHING	5	DEMOCRATIC	8	THEATER	13	ATMOSPHERE	52
REMAINED	5	HEADING	8	PHRASES	13	MARINE	52
SHHH	5	LEADER	8	ABSOLUTE	12	MAINTAIN	52
TELEPHONE	5	BELONGED	8	SIDED	12	CONCENTRATION	51
APARTMENTS	5	CAMPED	8	SQUARED	12	EFFECTS	51
FRAMED	5	CIVILIZATION	8	SHADED	12	BIOLOGICAL	48
INVESTIGATOR	5	PORTRAIT	8	FRACTIONAL	11	ADAPTED	48
RESERVATIONS	5	BOATS	7	GRAPHED	11	DETECT	46
WHEELED	5	MINISTER	7	INTERVAL	11	EVOLVED	44
CONFESS	5	MINISTERS	7	EIGHTHS	10	GLOBAL	44
DISPOSABLE	5	SETTLE	7	SPENDING	10	MALES	44
PIN	5	RIDERS	7	COMPATIBLE	10	DIVERSITY	44
SQUEEZED	5	DECK	7	CLASSROOM	9	GENETICS	44
CARD	4 4	FLAG	7 7	GALLON	9 9	CONTROLS	44
DADDY RADIO	4	SAILING TRAPPERS	7	REORDER SIMPLIFIES	9	DISORDERS FUELS	43 43
SLIGHT	4	WEALTHY	7	SURVEYS	9	CONTRACT	43 42
UNLOCKED	4	CATCHERS	6	MULTIPLIER	9	FATS	41
YOUNGSTER	4	FAIRNESS	6	SPECIFIED	9	TUBE	41
APOLOGIZED	4	HISTORIAN	6	TILE	9	PRODUCING	41
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Adapted from Gardner (2013, pp. 76)

Examples of Frequent Phrases within Disciplines

FICTION	AM HISTORY	MATHEMATICS	LIFE SCIENCE
2-WORD PHRASES	2-WORD PHRASES	2-WORD PHRASES	2-WORD PHRASES
OTIS AMBER 97	UNITED STATES 90	LOOK AT 478	SUCH AS 411
SAM WESTING 92	NEW YORK 49	FIGURE OUT 368	FOR EXAMPLE 267
FLORA BAUMBACH 72	SAN FRANCISCO 22	HOW MANY 306	PUBLIC DOMAIN 247
SYDELLE PULASKI 71	MOUNTAIN MEN 21	HOW MUCH 170	WIKI IMAGE 236
JUDGE FORD 66	THE UNION 21	THINK ABOUT 151	WIKI FILE 203
MR HOO 65	PONY EXPRESS 18	WHOLE NUMBERS 135	NERVOUS SYSTEM 154
SUNSET TOWERS 52	NEW ENGLAND 17	EQUAL TO 129	BLOOD CELLS 114
WESTING HOUSE 48 DENTON DEERE 45	ST LOUIS 17	REAL LIFE 126	CARBON DIOXIDE 112
GRACE WEXLER 35	YEARS LATER 17 SUPREME COURT 16	MIXED NUMBERS 124 WHOLE NUMBER 122	LESSON OBJECTIVES 85 LESSON SUMMARY 85
BARNEY NORTHRUP 33	ABRAHAM LINCOLN 15	MIXED NUMBER 109	REVIEW QUESTIONS 85
COFFEE SHOP 25	NEW MEXICO 15	DECIMAL POINT 104	READING SUPPLEMENTAL 83
JAKE WEXLER 25	A LOT 14	PRACTICE DIRECTIONS 95	BLOOD VESSELS 81
WESTING PAPER 25	AS WELL 14	TEACHING TIME 94	DIGESTIVE SYSTEM 69
MR MCSOUTHERS 24	ROCK ISLAND 14	ICE CREAM 91	NATURAL SELECTION 68
ALL RIGHT 23	SALT LAKE 14	TECHNOLOGY INTEGRATION 87	IMMUNE SYSTEM 67
DOUG HOO 23	MISSOURI COMPROMISE 13	MENTAL MATH 75	CARDIOVASCULAR SYSTEM 60
THANK YOU 23	ANDREW JACKSON 12	PLACE VALUE 73	LIVING THINGS 57
DELIVERY BOY 22	WAGON TRAIN 12	LESS THAN 72	AMINO ACIDS 56
GRACE WINDSOR 22	WOMEN'S RIGHTS 12	SURFACE AREA 71	RESPIRATORY SYSTEM 55
MRS WEXLER 22 WINDSOR WEXLER 22	NATIVE AMERICANS 11 SANTA ANNA 11	NUMBER LINE 66 COORDINATE GRID 65	CELLULAR RESPIRATION 52 REPRODUCTIVE SYSTEM 49
ED PLUM 20	SOUTH PASS 11	WORK ON 65	BLOOD PRESSURE 38
UNCLE SAM 17	CIVIL WAR 10	GREATER THAN 64	LIVING ORGANISMS 38
MRS WESTING 16	FREE STATES 10	LOOKING AT 59	CELL DIVISION 36
PAPER PRODUCTS 16	PACIFIC OCEAN 10	UNCLE LARRY 56	EUKARYOTIC CELLS 36
SANDY MCSOUTHERS 16	PRESIDENT POLK 10	CIRCLE GRAPH 55	LOOK AT 36
STOCK MARKET 16	SLAVE STATE 10	SIMPLEST FORM 54	THINK ABOUT 36
OF COURSE 15	MANIFEST DESTINY 9	COMMON DENOMINATOR 52	AIR POLLUTION 35
TURTLE WEXLER 15	SAM HOUSTON 9	MORE THAN 52	WATER POLLUTION 35
BERTHE ERICA 14	WHITE PEOPLE 9	WORKING ON 52	NERVE IMPULSES 31
MS PULASKI 14	DRED SCOTT 8	CUSTOMARY UNITS 50	SEEDLESS PLANTS 31
CLEANING WOMAN 13 ERICA CROW 13	FREE STATE 8 GEORGE WASHINGTON 8	ACCORDING TO 49 SIXTH GRADE 48	SMALL INTESTINE 30 BREAK DOWN 29
MR WESTING 13	NEW ORLEANS 8	MRS ANDERSEN 47	EXCRETORY SYSTEM 28
MRS BAUMBACH 13	RUN AWAY 8	REAL-WORLD PROBLEMS 47	UNITED STATES 28
TRACK MEET 12	BRIGHAM YOUNG 7	DIFFERENCE BETWEEN 44	BROKEN DOWN 27
ANGELA WEXLER 11	CAPE HORN 7	DIVIDED BY 40	LYMPHATIC SYSTEM 27
LOOK AT 11	HERMAN MELVILLE 7	FINAL ANSWER 40	ORGAN SYSTEMS 27
ORIENTAL RUG 11	IOWA CITY 7	COMMON FACTOR 36	SKELETAL SYSTEM 27
PARKING LOT 11	JAMES BUCHANAN 7	IMPROPER FRACTION 36	HEART DISEASE 26
SOUP KITCHEN 11 TEN THOUSAND 11	JEDEDIAH SMITH 7 SENECA FALLS 7	COMMON MULTIPLE 35 AMUSEMENT PARK 33	SEXUAL REPRODUCTION 26 CELL MEMBRANE 25
A FEW 10	SLAVE OWNERS 7	STEM-AND-LEAF PLOT 31	LARGE INTESTINE 25
GAME ROOM 10	SOUTH AMERICA 7	NUMERICAL EXPRESSION 30	NATURAL RESOURCES 25
VIOLET WESTING 10	UNDERGROUND RAILROAD 7	ROLLER COASTER 27	LYMPH VESSELS 24
WESTING GAME 10	CLIPPER SHIPS 6	BOX-AND-WHISKER PLOT 25	PLASMA MEMBRANE 24
FRENCH DOORS 6	KANSAS-NEBRASKA ACT 6	CIRCLE GRAPHS 25	REPRODUCTIVE ORGANS 24
LOOKING FOR 6	NATHANIEL BOWDITCH 6	DISTRIBUTIVE PROPERTY 25	ASEXUAL REPRODUCTION 23
STARING AT 6	PIKES PEAK 6	DIVIDE BY 25	BONE MARROW 23
BACK IN 5	PUBLIC SCHOOLS 6	INVERSE OPERATION 24	CARDIAC MUSCLE 23
DOWN ON 5	ROCKY MOUNTAINS 6	MULTIPLICATION PROBLEM 24	INTERNAL ORGANS 23
HAND OVER 5 GET AWAY 4	SIERRA NEVADA 6 SPERM WHALE 6	NEW YORK 24 RECTANGULAR PRISM 24	CONNECTIVE TISSUE 22 SCIENTIFIC METHOD 22
GET AWAT 4	STEPHEN DOUGLAS 6	COMMON MULTIPLES 18	CIRCULATORY SYSTEM 21
HELD UP 4	WALT WHITMAN 6	PRIME FACTORIZATION 18	OXYGEN-RICH BLOOD 21
3-WORD PHRASES	3-WORD PHRASES	3 WORD PHRASES	3 WORD PHRASES
SAMUEL W WESTING 26	SANTA FE TRAIL 11	CHECK YOUR WORK 172	PUBLIC DOMAIN ## 139
GRACE WINDSOR WEXLER 22 WESTING PAPER PRODUCTS 16	GREAT SALT LAKE 10 ELIZABETH CADY STANTON 8	A FEW MINUTES 125 ON YOUR OWN 116	SHOWN IN FIGURE 124 DO YOU THINK 116
BERTHE ERICA CROW 13	FUGITIVE SLAVE LAW 8	TIME TO PRACTICE 103	CHECK YOUR UNDERSTANDING 85
I DON'T KNOW 11	HENRY DAVID THOREAU 8	REAL LIFE EXAMPLE 99	AS WELL AS 54
TEN THOUSAND DOLLARS 11	AS MUCH AS 7	SUMS AND DIFFERENCES 41	WHITE BLOOD CELLS 48
	AS SOON AS 7 BOYS AND GIRLS 7	DOUBLE BAR GRAPH 35 FRONT END ESTIMATION 35	RED BLOOD CELLS 47 AS A RESULT 43
	RALPH WALDO EMERSON 7	GREATEST COMMON FACTOR 33	IN ORDER TO 36
	THE WHITE HOUSE 7	LEAST COMMON MULTIPLE 33	BE ABLE TO 30
	DECLARATION OF INDEPENDENCE 6	ADDITION AND SUBTRACTION 30	THEORY OF EVOLUTION 20
	JAMES K POLK 6 LEWIS AND CLARK 6	LOWEST COMMON DENOMINATOR 27 MULTIPLICATION AND DIVISION 22	FEMALE REPRODUCTIVE SYSTEM 12 MALE REPRODUCTIVE SYSTEM 12
	JOHN JAMES AUDUBON 5	READ AND UNDERSTAND 22	COMPARE AND CONTRAST 11
Adapted from Cards			· · · · · · · · · · · · · · · · · · ·

The Word Mummy in Narrative (Fiction) and Expository (Informational) Texts

Narrative Contexts	Expository Contexts			
The Mummy, the Will, and the Crypt (Bellairs, 1983)	Mummies & Their Mysteries (Wilcox, 1993)			
1. "The young man paused and grinned unpleasantly. 'Do you know what a mummy looks like after it's been unwrapped? Just a dried brown husk that used to be a human being, with holes for eyes?" [emphasis added]	7. "A mummy is the body of a human or animal in which some of the soft tissues (skin, muscles, or organs) did not decay after death. This makes a mummy different from a skeleton or a fossil." [emphases added]			
2. "The other was stretched out, and his hand was layed flat on the floor. It was brown and withered, like the hand of a mummy ." [emphasis added]	8. "Drying isn't the only way to turn a body into a mummy. Taking away all air from around the body will stop decay, since bacteria and fungi need air as well as water to live." [emphasis added]			
3. "A figure with hollow mummy eyes and a withered mummy face and clawlike mummy hands. Moving with an awful, tottering, unsteady gait, it came toward him." [emphases added]	9. "When the word mummy was first used in the English language in the early 1400s, it did not mean a body as it does now. Instead, it was the name of a medicine. Mummy comes from mumiyah, an Arabic word for bitumen, a sticky oil now used to make roads." [emphasis added]			
The Vandemark Mummy (Voight, 1991)	Tales Mummies Tell (Lauber, 1985)			
4. "Phineas looked across the table, across the mummy's face, to his father. Mr. Hall stared down at the wrapped figure, and at the portrait face that was held in place by wrappings, and then back down the length of the mummy to its feet, where Althea stood staring." [emphases added]	10. "The ground froze and stayed frozen, except for the top few inches, which thawed each summer. In this natural deep freeze, the body of the baby mammoth was preserved for thousands of years. It became a mummy, which is the term now used for any well-preserved body, whether animal or human." [emphasis added]			
5 . "He wasn't sure he exactly understood that now, but he felt as if this ancient mummy stood for something truer than all the money he could imagine winning in the lottery, truer than Donald Trump, truer even than the threat of nuclear war and nuclear accidents, AIDS, or the waste crisis." [emphases added]	11. "To find the age of the mummy , scientists made use of a built-in atomic clock. This is how the clock works: Certain kinds of atoms are radioactive they keep breaking down by giving off tiny parts of themselves. Among these atoms are those of carbon 14, which is a radioactive variety of carbon." [emphasis added]			
6. "The Collection, as you will find, is a hodgepodge. There will be some pleasant surprises for you, or so I like to think. The mummy, which is its centerpiece, has a certain wistful appeal, being from the Roman era." [emphasis added]	12. "Copper Man is a South American mummy that formed naturally with the help of dry air and salts. This mummy was once a copper miner who lived and worked around A.D. 800 in the Atacama Desert of northern Chile." [emphasis added]			

Adapted from Gardner (2004, p. 23) and Gardner (2013, p. 99)

Handout Sources:

Cunningham, P.M. (1998). The multisyllabic word dilemma: Helping students build meaning, spell, and read "big" words. Reading and Writing Quarterly: Overcoming Learning Difficulties, 14, 189-218.

Gardner, D. (2013). Exploring Vocabulary: Language in Action. London: Routledge

Gardner, D. (2004). Vocabulary input through extensive reading: A comparison of words found in children's narrative and expository reading materials. *Applied Linguistics* 25(1), 1-37.

Practical Vocabulary Training Decisions for Teachers of ELLs in Academic Settings

- 1. Vocabulary training should benefit both ELLs and native English speakers in the classroom.
- 2. Vocabulary training should address words, word parts, and phrases with high utility = Big Bang for the Buck.
 - A. Frequently used Greek and Latin roots and affixes that appear in many words in the content areas of education.

https://en.wikipedia.org/wiki/List_of_Greek_and_Latin_roots_in_English (one of many lists available)

http://quizlet.com

- B. Academic Vocabulary List (AVL): http://www.wordandphrase.info/academic/
- C. Content words and phrases that appear several times in the texts and/or topics that learners are required to read now or in the near future.
- D. Words and phrases that are typically found in task instructions (Answer the following question; Write a summary of, etc.)
- 3. Design a curriculum to maximize the recycling of a smaller group of content words at one time, and provide ample practice with these smaller groups of words
 - A. Tight themes in the content areas
 - Mummies and Bone Detectives instead of Mysteries
 - The Gold Rush and The Oregon Trail instead of Westward Movement
 - Bees and Butterflies instead of Insects
 - B. Base the curriculum on informational texts, with theme-related fiction used to enrich and build fluency with high frequency words.
- 4. Find and use informational texts of varying difficulty levels that address the same content-area themes and contain some of the same vocabulary terms so that ELLs and struggling L1 readers can have better success at reading academic text, while staying on topic with the rest of the class.
- 5. Design a curriculum that allows words to be experienced in all four modalities (listening, speaking, reading, writing), preferably at or near the same time.
- 6. Approach vocabulary training with the aim of helping your ELLs become autonomous word learners.
- 7. Spend ample class time on direct word study, looking at words, word parts, and phrases from actual texts and tasks used in your classroom.
 - A. Morphological awareness raising (Greek & Latin roots, prefixes, suffixes)
 - B. Context dependent meanings of words with many meanings (run, break, etc.)
 - C. The phrasal nature of many English vocabulary items:

Idioms (bit off more than we could chew, can't get off first base, etc.)

Phrasal Verbs (break up, break out, break down, etc.)

Compounds (cell membrane, carbon dioxide, etc.)

Complex Discourse Markers (on the other hand, in contrast, for instance, etc.)

Academic Bundles (The fact that...; The point is ...; As a result of ..., etc.)

8. If your school has pull-out ELL instruction or private tutoring options, insist that these efforts are correlated with mainstream classroom content, including the vocabulary necessary to succeed in the mainstream setting.

The Nifty Thrifty Fifty

Word	Transferable Prefixes	Transferable Suffixes		
antifreeze	anti			
beautiful		ful (y-i)		
celebrate		ate		
classify		ify		
communities	com	es (y-i)		
composer	com	er		
continuous	con	ous		
conversation	con	tion		
deodorize	de	ize		
different		ent		
discovery	dis	У		
dishonest	dis			
electricity	е	ity		
employee	em	ee		
encouragement	en	ment		
expensive	ex	ive		
forecast	fore			
forgotten		en (double t)		
governor		or		
happiness		ness (y-i)		
hopeless		less		
illegal	il			
impossible	im	ible		
impression	im	sion		
independence	in	ence		
international	inter	al		
invasion	in	sion		
irresponsible	ir	ible		
midnight	mid			
misunderstand	mis			
musician		ian		
nonliving	non	ing (drop e)		
overpower	over	0 (***)		
performance	per	ance		
prehistoric	pre	ic		
prettier	ļ'	er (y-i)		
rearrange	re	, ,		
replacement	re	ment		
richest		est		
semifinal	semi			
signature		ture		
submarine	sub			
supermarkets	super	s		
swimming		ing (double m)		
transportation	trans	tion		
underweight	under	3.5		
unfinished	un	ed		
unfriendly	un	ly		
unpleasant	un	ant		
valuable	un	able (drop e)		

Repurposed from Cunningham, 1998, p. 215