



Table of Contents

Broward County Schools Essential Content Area Vocabulary.....	3-4
Language Arts Grade K.....	5
Reading / Language Arts Grade 1.....	6
Reading / Language Arts Grade 2.....	7
Language Arts Grade 3.....	8
Language Arts Grade 4.....	9
Language Arts Grade 5.....	10
Mathematics Grade K.....	11
Mathematics Grade 1.....	12
Mathematics Grade 2.....	13
Mathematics Grade 3.....	14
Mathematics Grade 4.....	15-16
Mathematics Grade 5.....	17-18
Science Grade K.....	19
Science Grade 1.....	20
Science Grade 2.....	21
Science Grade 3.....	22-23
Science Grade 4.....	24-25
Science Grade 5.....	26-27
Social Studies Grade K.....	28
Social Studies Grade 1.....	29
Social Studies Grade 2.....	30
Social Studies Grade 3.....	31-32
Social Studies Grade 4.....	33
Social Studies Grade 5.....	34-35
Technology Grades K-2.....	36
Technology Grades 3-5.....	37

Broward County Schools Essential Content Area Vocabulary

Introduction

" The gift of words is perhaps the most powerful gift you can give today's children. After all, the broader children's vocabularies, the more questions they can ask, thoughts they can share, and dreams they can express. Discovering the power of words truly opens the world to children and welcomes them to play a part."

Beck, McKeown, and Kucan, 2002

Purpose

Our purpose in creating this document was to develop a vocabulary resource for teachers in grades K-12. This essential vocabulary is needed for students to understand the key concepts taught throughout the curriculum. Words and phrases are taken from the District adopted basals, texts, and other instructional materials that students will encounter during the year. The words on the Essential Content Area Vocabulary List reflect the intention of the Sunshine State Standards and have been cross-referenced with Building Academic Vocabulary (2005) by Robert J. Marzano and Debra J. Pickering and key FCAT vocabulary. These essential words have been arranged by grade and strand. It should be noted that this is not an exhaustive list and students will be exposed to many more words during their instruction.

Why this focus on vocabulary?

Researchers agree that there is a strong interaction between vocabulary, knowledge, and reading comprehension. Hirsch (2006), states that comprehending a text depends on knowing the meanings of most of its words. An adequate early vocabulary is, therefore, crucial for later reading achievement. Minskoff, in Teaching Reading to Struggling Learners, (2005), identifies four groups of students who have particular language difficulties which correlate to reading problems:

- Students with limited English language proficiency
- Students who speak dialects different than Standard American English
- Students from economically disadvantaged homes
- Students with language learning disabilities

As educators, we see these groups of students everyday.

The development of vocabulary knowledge begins at an early age as, "listening vocabulary". According to Stahl (1999), because most words are learned from context, good vocabulary instruction should simulate learning from context.

In the primary grades, this context is an oral one - teacher's saying these targeted words in a spoken context for student's to hear and begin to know. The research reminds us that long before children can comprehend through reading, progress in language occurs chiefly

Essential Content Area Vocabulary Continued

through listening and talking, not through reading and writing. The vocabulary listed for grades K, 1 and 2 are intended for the teacher to present orally.

The focus at this level is not for students to be able to necessarily read or spell these words, but rather to know these concepts and their meanings. In the upper elementary grades, (Beck et al, 2002) states that in order for words to become a useful and permanent part of the student's vocabulary repertoire, multiple encounters with the vocabulary is required. Three key features in vocabulary instruction should be noted:

1. Frequent encounters with words
2. Rich, active instruction that goes beyond definitions. Encouraging students to not just use words, but explore the facets of word meaning and the relationships among words.
3. Extension of word use beyond the classroom taking notice of words within a greater environment.

According to Beck, McKeown, and Kucan (2002), in Bringing Words to Life, vocabulary work in middle and high school should allow deeper explorations of language - how language gives meaning and how words mean what they mean. Building understanding of language comes through developing knowledge of both the similarities and differences among words and the precise roles they can play.

At any grade level reading a lot seems to be the surest way to build a broad vocabulary. Twenty minutes of daily reading can potentially lead to learning at least one thousand words per year (Nagy, Anderson, and Herman 1987). However, Regie Routman in Conversations (2000), states if students read only very easy books, that is material "below the student's grade level of reading ability", vocabulary growth is likely to be minimal. Carver and Leibert (1955), suggest listening to challenging material that builds a student's background knowledge, may well be the most effective way to increase vocabulary.

The ability to define a word is really just the beginning of true word knowledge. The next steps are the ability to apply a word in different situations appropriately and recognize inappropriate uses as well, thereby demonstrating an understanding of the multiple meanings of words and the importance of the context in which they occur. Finally, to actually use a word in one's thinking, conversation, and writing is our ultimate goal in developing our students' vocabulary knowledge.

Language Arts
Grade K

Strand A Reading	Strand B Writing	Strand E Literature
after ** answer ** before ** beginning ** chart (M) describe ** diagram different ** ending (M)** first ** follow information ** label list (M) meaning ** name (first, last) (M) opposite ** pictures predict ** problem ** question (M) read reread (M) retell (M) same ** story map *(M)	alphabet *(M) exclamation mark* idea label* letter *(M) period * print* publish *(M) punctuation* (M) question mark* (M) quotation marks* (M) sentence* (M)** sketch space* spelling *(M) table of contents * (M) title (M) ** title page * (M) word*	author (M) ** book (M) character (M) cover (M) events illustrator picture book (M) poem (M) ** problem report rhyme (M) setting (M) solution ** story **

* Word, phrases appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

**Reading / Language Arts
Grade 1**

Strand A Reading	Strand B Writing	Strand E Literature
after* ** answer * ** before * ** beginning* ** chart * (M) check definition (M) ** describe * ** diagram different* ** ending ** explain ** find* first* ** follow* information * ** label* list* (M) main idea (M) ** meaning* ** mental image (M) opposite* ** pictures* predict* ** prior knowledge (M) problem* ** question (*M) ** read* reread * (M) retell *(M) same* ** self-correct sequence story map *(M) summary (M)	alphabet *(M) apostrophe (M) capitalize (M) comma *(M) consonant conventions* craft draft (M) edit* (M) exclamation mark * hook* ideas * label* letter *(M) organization* paragraph* (M) ** period * (M) print* pronoun (M) publish * (M) punctuation * (M) question mark * (M) quotation marks * (M) report revise * sentence *(M) ** sentence fluency* six traits * space * spelling * (M) syllable (M) table of contents * (M) title *(M) ** title page *(M) transitions* voice* vowel* word * word choice*	author *(M) ** book * (M) character *(M) ** cover *(M) diary (M) events * ** fairy tale (M) fiction (M) genre (M) illustration (M) journal (M) magazine (M) nonfiction* picture book (M) poem * (M) problem * rhyme * (M) setting* (M) ** solution * ** story *

* Word, phrases appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

**Reading / Language Arts
Grade 2**

Strand A Reading	Strand B Writing	Strand E Literature
almanac * (M) article * ** caption * (M) ** cause * ** check * chronological order * (M) ** communicate compare * ** contrast * (M) ** data * definition * (M) ** description * (M) ** detail * (M) diagram * (M) dictionary * (M) effect * ** ending * ** evidence * ** explain * ** fact * final * fluency * glossary * (M) identify * italics * (M) main idea * ** mental image * (M) most likely * ** organize * paraphrase * (M) prior knowledge * (M) purpose scan (M) skim (M) sequence * ** similar * ** solution * ** strategy * summary * (M) thesaurus * (M) viewpoint *	abbreviation * (M) adjective * (M) adverb * (M) antonym * (M) ** apostrophe* blend (M) comma * (M) contraction (M) conventions* craft* details* draft * (M) edit *(M) focus homonym * (M) homophone * (M) hook * ideas* index (M) notes * (M) noun *(M) organization * paragraph * (M) ** passage* (M) ** phrase * (M) ** prefix * (M) ** pronoun *(M) report* revise* root word * (M) sentence fluency* six traits * suffix * (M) syllable * (M) synonym * (M) ** topic transitions* verb * (M) voice * vowel * word choice*	biography * (M) chapter * (M) comprehension * (M) expository text * fable * (M) fantasy * (M) fairy tale *(M) feelings * fiction * (M) folktale * (M) genre * (M) illustration * (M) informational text magazine * mystery * (M) nonfiction * personal narrative * play * plot * (M) realistic * resolution * tall tale * (M) textbook text (M) **

* Word, phrases appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

Language Arts

Grade 3

Strand A Reading	Strand B Writing	Strand E Literature
almanac *(M) article * ** atlas * (M) background knowledge *(M) caption*(M) ** cause* ** chronological order*(M) ** compare* ** context clue * (M) contrast * (M)** data * definition *(M) ** description *(M) ** detail *(M) diagram * (M) dictionary *(M) effect * ** encyclopedia (M) evidence* ** expression * (M) fact * fluency * glossary *(M) heading * (M) headline *(M) index *(M) interview (M) investigate * (M) most likely* ** opinion (M) organize * paraphrase *(M) persuade * prefix * (M) ** pronunciation * (M) purpose *(M) relevant root word * (M) ** scan * (M) skim *(M) sequence* ** similar * ** solution* ** suffix * (M) strategy * syllabication (M) text features * thesaurus *(M) viewpoint *	abbreviation *(M) adjective *(M) adverb *(M) antonym * (M) ** apostrophe*(M) author's purpose (M) character trait (M) comma ** (M) contraction *(M) cursive *(M) descriptive language (M) dialogue (M) edit *(M) expository writing * figurative language *(M) first person (M) focus * homonym *(M) homophone *(M) imagery *(M) indent *(M) informational * metaphor *(M) narrative writing * notes *(M) noun *(M) organization *(M) paragraph (M) passage * (M)** persuasive writing * phrase * (M)** plural (M) proofread * (M) proper noun * (M) pronoun * (M) punctuation * (M) relevant detail *(M) revise *(M) singular (M) six traits *(M) section * ** synonym*(M)** text * (M) ** third person (M) transitions *(M) topic sentence *(M) verb *(M) writing process *	biography*(M) chapter *(M) character trait *(M) comprehension *(M) conflict * diary * emotions * expository text * fable *(M) fantasy *(M) feelings * folktale *(M) genre * (M) historical fiction (M) journal (M) legend literature (M) main character (M) mood (M) mystery * (M) novel (M) personal narrative *(M) play * plot *(M) point of view * (M) problem * (M) quote (M) realistic * resolution * story map * (M) tall tale *(M) timeline * (M)

* Word, phrase appear in multiple grade-levels** Word may appear on FCAT test (M) Word included on Marzano's word list

**Language Arts
Grade 4**

Strand A Reading	Strand B Writing	Strand E Literature
analogy (M) atlas *(M) background knowledge * context clue *(M) encyclopedia *(M) essential ** expression *(M) format (M) generalization (M) heading *(M) headline *(M) index *(M) interview *(M) investigate *(M) multiple meanings persuade * pronunciation * (M) relevant * self-correction * (M) text features *(M) text structure (M) visual aid * (M) voice inflection * (M)	author's purpose *(M) conjunction (M) cursive *(M) descriptive language *(M) dialogue *(M) edit *(M) elaboration *(M) expository writing* figurative language *(M) imagery *(M) indent*(M) informational * metaphor *(M) onomatopoeia *(M) narrative writing* personification (M) persuasive writing* plagiarism *(M) proofread * (M) relevant detail *(M) revise *(M) rubric simile (M) six traits *(M) topic sentence *(M) writing process *	autobiography (M) character trait *(M) conflict * diary *(M) editorial (M) emotions * historical fiction *(M) journal *(M) legend *(M) literature *(M) main character *(M) mood *(M) novel *(M) point of view *(M) quote *(M) story map*(M) theme (M) timeline *(M)

*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

**Language Arts
Grade 5**

Strand A Reading	Strand B Writing	Strand E Literature
adjust rate context (M) format *(M) generalization *(M) multiple meanings * outline (M) self-correction *(M) visual aid *(M) voice inflection *(M)	alliteration (M) character development (M) chronological order (M) conjunction *(M) copyright (M) credit (M) elaboration *(M) future tense (M) hyphen (M) idiom (M) onomatopoeia * (M) personification *(M) past tense (M) plagiarism *(M) present tense (M) semicolon (M) simile *(M) slang (M)	autobiography *(M) climax (M) dialect (M) editorial *(M) essay (M) legend * literature review (M) media motive (M) myth (M) narration (M) narrator (M) periodical (M) theme *(M)

*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

Mathematics
Grade K

Strand A Number Sense	Strand B Measurement	Strand B Geometry	Strand D Algebraic Thinking	Strand E Data Analysis & Probability
add after* before between (M) equal* even numbers* fourth(s)* group* (M) half (halves)* hundred(s)* less than* (M) more than (not) equal number* (M) number line*(M)** odd number* one(s)* opposite order pattern* (M) ** small(est) subtract ten(s)* zero* (M)	big(gest) cent(s) clock (M) day * (M) dime* equal (parts)* estimate* first fourth* hour (hand)* (M) longer longest* measure minute(hand)*(M) money* (M) month* nickel* penny* second (hand) (M) shorter size* (M) small(est) week* (M) year * (M)	above* (M) behind (M) below * (M) beside* between (M) circle* (M) cone* corner* (M) curves cylinder* in front of (M) inside (M) left* (M) middle outside (M) rectangle* (M) right* (M) shape* (M) slide* sort* sphere* square* (M) triangle* (M) under * (M)	alike different match input object output similar size sort*	graph (M) table* (M) ** tally (mark)* tally (table)*

* Word, phrase appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

Mathematics
Grade 1

Strand A Number Sense	Strand B Measurement	Strand C Geometry	Strand D Algebraic Thinking	Strand E Data Analysis & Probability
add* addition (M) after* before* between* (M) count (on) difference (M) double (plus one) equal* estimate* (M) even numbers* fact family fourth(s)* group * (M) half (halves)* hundred(s)* less than* (M) more than* near (M) (not) equal* number* (M) number line* (M) ** odd number* one(s)* opposite* order* pattern*(M)** rule skip-counting* small(est)* subtract* subtract(ion)* (M) sum ten(s)* zero* (M)	balance big(gest)* cent(s)* clock* (M) coin (M) cup (M) day* (M) dime* dollar* equal (parts)* estimate* first* foot (M) fourth* gram half-dollar* half-hour* hour (hand)* (M) inch (M) liter longer* longest* measure* minute(hand)*(M) money* (M) month* nickel* penny* pint pound (M) quart quarter second(hand)*(M) shorter* size* (M) small (est)* temperature (M) thermometer time* (M) week* (M) year * (M)	above* (M) behind* (M) below* (M) beside* between* (M) circle* (M) cone* corner* (M) cup curves* cylinder* in front of * (M) inside* (M) left* (M) line of symmetry middle* outside* (M) rectangle* (M) rectangular prism right* (M) shape* (M) side* slide* sort* sphere* square* (M) triangle* (M) turn* ** under * (M)	alike* different* match* input* object* output similar* size* sort*	bar graph* certain chart** equally likely graph* (M) impossible less likely picture graph table* (M) ** tally (mark)* tally (table)* unlikely*

* Word, phrase appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

Mathematics
Grade 2

Strand A Number Sense	Strand B Measurement	Strand C Geometry	Strand D Algebraic Thinking	Strand E Data Analysis & Probability
addition* (M) after* count backward count forward count (on)* difference* (M) double (plus one)* equal* estimate* (M) even numbers* fact family* fourth(s)* fraction greater than (M) greatest group* (M) half (halves)* hundred(s)* less than* (M) near* (M) number* (M) number line* (M) ** odd number* one(s)* ordinal number (M) pattern* (M) ** regroup rule* set (M) skip-counting* small(est)* subtract(ion)* (M) sum* ten(s)* whole number (M) ** zero* (M)	balance* calendar (M) coin* (M) cup* (M) date day* (M) dime* dollar* dollar sign equal (parts)* estimate* foot* (M) fourth* gram* half-dollar* half-hour* half-past hour (hand)* (M) inch* (M) length (M)** liter* longest* minute(hand)* (M) money* (M) month* nickel* penny* pint* pound* (M) quart* quarter* size* (M) temperature* (M) thermometer* time* (M) week* (M) whole year* (M)	above* (M) below* (M) beside* circle* (M) cone* corner* (M) cube cup* cylinder* hexagon left* (M) line of symmetry* parallelogram plane shapes rectangle* (M) rectangular prism* right*(M) shape*(M) side* slide* solid figure sort* sphere* square* (M) trapezoid triangle* (M) turn* ** under* (M)	alike* different* match* input* object* output similar* size* sort*	bar graph* certain* chart** equally likely* impossible* less likely* pictograph picture graph* survey table* (M) ** tally (mark)* tally (table)* unlikely*

* Word, phrase appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

Mathematics
Grade 3

Strand A Number Sense	Strand B Measurement	Strand C Geometry	Strand D Algebraic Thinking	Strand E Data Analysis & Probability
addend*(M)** array*(M) denominator* difference(M) digit* estimation*(M)** expanded form*(M) factor*(M)** fraction*(M)** minuend* multiplicand* multiplication(M) multiples*(M)** multiplier* number line** numerator* place value* ** product*(M)** regroup* relative size*(M)** rounding*(M) solution* subtrahend* sum(M)** whole numbers*(M)	area*(M)** balance centimeter*(M) clockwise* counterclockwise* customary units*(M)** degrees gram*(M) height*(M)** length*(M)** liter* meter*(M) metric minute* non-standard units*(M)** ounce perimeter*(M)** scale second* thermometer*(M) temperature* weight* ** width*(M)	acute angle*(M)** angle*(M) base*(M)** closed figure* ** cone* congruent*(M)** cube*(M) cylinder*(M) face*(M)** hexagon* obtuse angle*(M)** octagon* open figure* pentagon* point* ** reflection(flip)*(M)** rhombus*(M) right angle*(M)** side* sphere*(M) straight angle* ** symmetry* ** translation(slide)* vertex (vertices)*	expression(M) equation inequality(M) pattern(M) rule solution*	axis(axes)* ** chance*(M) combinations(M) coordinates data*(M)** equally likely input* line graph(M) median*(M)** mode*(M)** ordered pair * ** output* pictograph*(M)** point* ** range*(M)**

* Words, phrases appear in multiple grade levels

** Indicates FCAT Vocabulary

(M) Included on Marzano's Word List

Mathematics
Grade 4

Strand A Number Sense	Strand B Measurement	Strand C Geometry	Strand D Algebraic Thinking	Strand E Data Analysis & Probability
addend*(M)** array* calculate* cardinal number(M) composite number*(M)** consecutive* decimal number*(M)** denominator* digit* divisible* ** divisor** estimation(M)** expanded notation*(M) extraneous information** equivalent* factor(M)** fraction(M)** inverse operation** million* minuend* multiples(M)** multiplicand* multiplier* natural numbers* numerator* operation* ** ordinal number*(M) percent*(M)** perfect number* place value* ** prime number*(M)** product*(M)** quotient*(M)** regroup* relative size*(M)**	area*(M)** balance* capacity*(M) Celsius* centimeter*(M) compare clockwise* counterclockwise* customary units* ** degrees* direct measure* ** distance* Fahrenheit* gram*(M) height* length* liter* mass*(M)** meter*(M) metric units*(M)** minute* non-standard units(M)** ounce* perimeter*(M)** quantity* scale*(M)** second* square unit* volume*(M)** weight* ** width*(M)	acute angle*(M)** angle*(M)** base*(M)** circumference*(M) closed figure* ** cone* congruent* ** cube* cylinder*(M) dashed line* diameter* dotted line* face*(M)** hexagon* horizontal*(M) intersection*(M)** line* ** line segment* ** obtuse angle*(M)** octagon* open figure* parallel lines*(M) ** parallelogram*(M) pentagon* perpendicular* ** plane figure* ** point* ** polygon*(M)** quadrilateral*(M) rectangular prism*(M)** reflection(flip)*(M)** rhombus*(M) right angle*(M)** rotation(turn)*(M)** side* ** similar figure* ** similarity*(M)** solid figure* sphere* straight angle* ** symmetry* ** transformation* ** translation(slide)*(M)**	equation*(M)** expression* ** inequality*(M)** order of operations*(M)** pattern*(M)** relationship*(M)** rule* ** solution* symbol*(M) variable*(M)**	arrangement* axis(axes)* ** break(squiggle)* ** certainty*(M) chance*(M) circle graph* ** combinations coordinates* ** data*(M)** data collection*(M) diagram*(M) double-bar graph*(M)** equally likely* event* function*(M)** grid(plane)(M)** labels* ** likelihood* ** line graph*(M)** mean*(M)** median*(M)** mode*(M)** ordered pair* ** organized data* ** pie chart*(M) point* ** predict* probability*(M)** range*(M)** survey*(M) tree diagram* ** Venn diagram*(M) x-axis* ** y-axis* **

Mathematics
Grade 4 Continued

remainder*(M) rounding*(M) similarity*(M)** simplify* solution* subtrahend* value* whole numbers*(M)**		trapezoid* vertex(vertices)* ** vertical*(M)		
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* Words, phrases appear in multiple grade levels

** Indicates FCAT Vocabulary

(M) Included on Marzano's Word List

Mathematics
Grade 5

Strand A Number Sense	Strand B Measurement	Strand C Geometry	Strand D Algebraic Thinking	Strand E Data Analysis & Probability
billion calculate* cardinal number*(M) composite number*(M)** consecutive* decimal number*(M)** decimal point digit* dividend(M) divisible* ** divisor* ** equivalent extraneous information* ** equivalent* greatest common factor (GCF) inverse operation* ** least common denominator (LCD) least common multiple(LCM) million* natural numbers* operation* ** ordinal number*(M) percent*(M)** perfect number* prime factorization(M) prime number*(M)** quotient*(M)** reduce remainder*(M) similarity*(M)** simplify*	balance* capacity*(M) Celsius* cubic units(M) direct measure* Fahrenheit* mass*(M)** quantity* scale*(M)** square unit* units of measure volume*(M)**	acute angle*(M)** circumference*(M) congruent* ** coordinates* dashed line* diagonal diameter* dotted line* edge equilateral triangle horizontal*(M) intersection*(M)** isosceles triangle line* ** line segment* ** obtuse angle*(M)** parallel lines* (M)** parallelogram*(M) perpendicular* ** plane figure* ** polygon*(M)** quadrilateral*(M) radius** ray** rectangular prism*(M)** right angle*(M)* rotation (turn)*(M)** scale model(M)** scalene triangle semi-circle similar figures* ** similarity*(M)** solid figure*(M) straight angle* ** symmetry* ** tessellation(M) transformation* ** translation (slide)*(M)** trapezoid* triangular pyramid two-dimensional	equation*(M)** equivalent forms*(M)** evaluate** expression* ** inequality*(M)** order of operations*(M)** pattern*(M)** relationship*(M)* * rule* ** symbol*(M) variable*(M)**	arrangement* break* ** (squiggle) certainty*(M) chance*(M) circle graph* ** coordinates* ** data*(M)** data collection*(M) diagram*(M) double-bar graph*(M)** equally likely* event* function*(M)** grid(plane)* ** increments input* intervals labels* ** likelihood* ** line graph*(M)** location mean*(M)** ordered pair* ** organized data* ** output* pie chart*(M) predict* probability*(M)** randomly chosen** ratio** scale**(M) stem-and-leaf plot** survey*(M) tree diagram* ** trend line** unorganized data** Venn diagram*(M) verify(M)

Mathematics
Grade 5 Continued

		three-dimensional vertex(vertices)* ** vertical*(M)		x-axis* ** y-axis* **
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* Words, phrases appear in multiple grade levels

** Indicates FCAT Vocabulary

(M) Included on Marzano's Word List

Science
Grade K

Strand A The Nature of Matter	Strand C Force and Motion	Strand D Processes that Shape the Earth	Strand F The Processes of Life	Strand G How Living Things Interact with the Environment	Strand H The Nature of Science
absorb change color container evaporate five senses (M) float flows gas(M)** height length liquid (M)** mass(M) matter material object pattern physical property science (M) shape (M) sink solid** sort surface texture water (M) weight width	attract force gravity (M)** machine(M) magnet (M) material motion(M) movement pull (M) push (M) repel roll slide tool transportation	change cloud(M) day earth fall/autumn freeze hail melt night precipitation (M) rain rain gauge seasons sky (M) sleet snow spring storm summer sunlight water weather (M) weather patterns wind gauge wind winter	adult amphibian beak bird butterfly caterpillar change chrysalis claw egg(M) feather fish flower fruit fur growth (M) insect jaw larva leaf/leaves life cycle** living mammal metamorphosis moth nonliving plant pupa reptile root(s) scale(s) seed seedling skin sprout stem tree wildlife	air (M) basic needs care clothing environment(M) food (M) habitat(M) lake land living nonliving ocean oxygen pollution pond protect recover recycle(M) reduce reuse river rock sand (M) shelter (M) soil (M) space stream sunlight waste water	balance (M) centimeter classify communicate compare data data supports data doesn't support describe experiment** gather data gram hand lens hypothesize infer make conclusions measure metric system observe (M) predict(M) record data ruler(M) scientific method** temperature (M) test thermometer(M) unit

*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

Science
Grade 1

Strand A The Nature of Matter	Strand B Energy	Strand C Force and Motion	Strand F The Processes of Life	Strand G How Living Things Interact with the Environment	Strand H The Nature of Science
change of state** color (M) float * gas * (M)** height * length * liquid * (M)** magnify (M) mass**(M) * matter * ** particles * phase changes phases of matter physical property * ** (M) rough shape (M) sink * size (M) smooth solid * (M)** states of matter texture (M) weight * width *	aquarium energy(M)** energy flow energy system energy transfer freezing (M) heat (M)** heat gain heat loss interaction light (M)** melt model energy system reflect** refract** solar energy sun system terrarium transparent	force friction(M)* * gravity motion (M) pull * (M) push * (M) sound (M) sound wave speed surface vibration (M) wave	adapt adaptation adult amphibian * animal * characteristics(M) bird * eggs (M) embryo environment * fish * flower * function gills insect leaf/leaves * life cycle * mammal * metamorphosis * plant * (M) reptile * reproduce root * seed * seedling * seed coat shrub * sprout * stem * structure sunlight * wildlife *	air * basic needs body covering breathing characteristics desert environment * forest freshwater function habitat * interact life cycle * rainforest requirements for life(M) saltwater space structure sunlight *	balance (M) centimeter classify * communicate* compare * data supports data doesn't support describe * experiment * ** gather data * gram hand lens * hypothesize * infer * kilogram liter make conclusions * measure * meter * meterstick metric system microscope (M) milliliter millimeter observe * (M) predict * record data * ruler scientific method* ** temperature * (M) thermometer * (M)

* Word, phrase appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

Science
Grade 2

Strand A The Nature of Matter	Strand B Energy	Strand D Processes that Shape the Earth	Strand E Earth and Space	Strand G How Living Things Interact with the Environment	Strand H The Nature of Science
change of state * ** chemical change differences dissolve(M) gas * (M)** irreversible change liquid * (M)** mass * (M) material matter* ** mixture (M)** molecules particles phase changes physical change phases of matter physical property *(M) reversible change separate similarities size * solid* (M)** solution states of matter (M) steam water vapor	Aquarium * boil calories condense condensation** cool digestion energy (M) energy system evaporate** freeze heat (M) heat gain heat loss melt model energy system nutrients terrarium *	ancient archaeologist biosphere boulder (M) drought Earth's surface extinct flood fossils** grain of sand litter mineral natural resource paleontologist pollution** prehistoric animals (M) reconstruct recover * recycle * reduce * resource** reuse * rock properties sand (M) soil (M)	astronomy(M) astronomer axis constellation** crater crescent day (M) galaxy** hour month (M) moon (M) night (M) orbit phases of the moon** planet**(M) revolution rotation season seasonal change (M) solar energy solar system(M) star (M) sun * sunrise sunset tilt of the axis** universe**(M) visible wane wax year(M)	adapt * adaptations** Arctic Biosphere * conservation** depend dependent desert * ecosystem * environment** * (M) everglades food chain**(M) food web**(M) fresh water *(M) habitat (M)** lake * mangrove ocean organism** pollution pond rain forest river * salt water * structural * characteristics survival woodland forest	balance (M) centimeter classify * communicate* compare * data supports data doesn't support experiment * ** gather data * gram * hand lens * hypothesize * infer * kilogram * liter * make conclusions * measure * meter * metric system * meterstick * microscope * milliliter * using models observe(M)* predict(M) * record data * scientific method* ** temperature *(M) thermometer *(M) variable

*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

Science

Grade 3

Strand A Nature of Matter	Strand B Energy	Strand C Force and Motion	Strand D Processes that Shape the Earth	Strand F Processes of Life	Strand G How Living Things Interact with their Environment	Strand H The Nature of Science
atom**(M) change of state chemical change**(M) condensation(M) conservation of matter(M) cooling (M) evaporation**(M) fog gas**(M) heating**(M) kilogram liquid**(M) mass**(M) matter mixture**(M) molecules particles phase changes(M) phases of matter physical change** physical property solid**(M) solution** states of matter**(M) steam temperature(M)	Celsius conduction(M) conductor convection(M) energy**(M) Fahrenheit(M) growth(M) heat transfer**(M) heat**(M) insulator(M) organism** particles radiation(M) temperature(M) thermal energy	balanced force(M) force** friction**(M) gravity**(M) motion(M) speed(M) newton position(M) pull(M) push(M) unbalanced force(M) vibrations waves weight(M) work	air mass(M) air pressure atmosphere**(M) climate(M) clouds(M) cold front condensation(M) cool(ing)**(M) dew estuary evaporation** forecast fresh water(M) gas**(M) glacier(M) weather(M) groundwater(M) hail heat(ing)**(M) hurricane lightning liquid**(M) meteorologist ozone precipitation(M) rain gauge salt water(M) satellite sleet	air(M) bulb carbon dioxide(M) chlorophyll cone germinate light energy light(M) oxygen (M) photosynthesis**(M) plant (M) root(M) stem seed seed coat seedling soil(M) water(M)	canopy carnivore coastal forest community** coniferous forest consumer** deciduous forest decomposer**(M) desert ecosystem**(M) energy pyramid** energy transfer**(M) environment** food chain**(M) food web**(M) forest forest floor fresh water(M) habitat**(M) herbivore inherit(M) interact lake ocean(M) organism**(M) offspring(M) omnivore polar	balance* (M) beaker* centimeter* classify* communicate* compare* constant* control* data does not support* data supports* dependent variable* experiment* ** gather data* graduated cylinder*(M) gram* hand lens* hypothesize* identify* independent variable* infer* investigation* ** kilogram liter* make/draw conclusions* measure*

Science
Grade 3 Continued

<p>volume water vapor weight</p>			<p>thermal energy thunderhead thunderstorm tornado troposphere warm front water cycle**(M) water vapor weather conditions (M) weather vane</p>		<p>pond population**(M) predator**(M) prey**(M) producer** river salt water(M) savannah scavenger stream system**(M) trait(M) tropical rain forest understory</p>	<p>meter* meterstick* metric system* microscope* milliliter* model* observe(M) predict(M) record data repetition scientific method** temperature* (M) thermometer* (M) trial* using models* variable*</p>
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*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

Science
Grade 4

Strand C Force and Motion	Strand D Processes that Shape the Earth	Strand E Earth and Space	Strand F The Processes of Life	Strand G How Living Things Interact with the Environment	Strand H The Nature of Science
acceleration *(M) balanced force* (M) circuit* conductor*(M) effort force* electric current *(M) electricity* (M) electromagnet* force* ** frame of reference* friction* ** gravity* ** inclined plane* ** insulator* lever* ** magnet* (M) magnetic field* magnetic pole* motion *(M) newton * parallel circuit* position *(M) pulley *(M) relative motion(M) resistor* screw* series circuit* simple machine* speed *(M) static electricity* unbalanced force* (M) wedge* weight* wheel and axle* ** work*	active volcano atmosphere(M)** boundary cave compression continental crust continental drift* convection *(M) core* (M) crater crust deposition* ** dome drought(M) earthquake (M)** epicenter erosion* (M)** fault* fault line flood* focus front* glacier (M) greenhouse effect* hardness humidity* hurricane igneous rock (M)** lava lithosphere luster magma* magma chamber mantle * metamorphic rock**	astronomy* (M) asteroid* (M) axis* (M)** comet(M) constellation(M)** crater crescent equator** galaxy(M)** gas giants gibbous gravitational force (M) inner planets meteor (M) meteoroid Milky Way(M)** moon phases*(M) orbit*(M) outer planets planet** prominence* revolution rotation* (M) satellite seasons* solar system(M)** star(M)** sunspots telescope(M) tilt of the axis(M)** universe(M)** wane* wax*	amphibian* artery arthropod brain capillary cardiac muscle cell*(M) circulatory system (M) classification digestive system (M) esophagus fungi heart inherited traits* invertebrate kingdom large intestine learned behavior* lungs mammal mollusk moneran muscular system (M) nerve* nervous system (M) neuron nonvascular plant offspring (M) organ* ** organism*(M)** parent protist** reptile respiratory	adaptation* ** environment* ** habitat*(M)** camouflage carbon dioxide(M) climate* community* ** compete consumer** decomposer(M)** diversity ecosystem** endangered species germinate hibernation instinct metamorphosis migration mimicry niche nutrient oxygen photosynthesis** population (M)** primary consumer producer** protist** resources secondary consumer shelter spore succession symmetry transpiration variation	balance* (M) beaker* centimeter* classify* communicate* compare* constant* control* control variable* data does notsupport* data supports* dependent variable* experiment* ** gather data* graduated cylinder* (M) gram* hand lens* hypothesize* (M) identify* independent variable** infer* investigation* ** kilogram* liter* make conclusions* measure* meter* meterstick* metric system* microscope* milliliter* model* observe *(M) predict *(M)

Science
Grade 4 Continued

	mineral (M) oceanic crust outer core plate * plate tectonics pressure (M) ridge rift rock cycle(M) sediment* sedimentary rock** seismograph shock waves soil composition (M) stalactite* stalagmite* storm surge streak subduction zone* tide(M) Topography** transverse tsunami vent vibration volcano** water cycle** wave weathering(M)**		system (M) skeletal system (M) small intestine smooth muscle spinal cord stomach striated muscle system** tissue (M)** vascular plant vein vertebrate (M)		record data* repetition* scientific method* ** temperature *(M) thermometer*(M) trial* using models* variable*
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*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

**Science
Grade 5**

Strand A The Nature of Matter	Strand B Energy	Strand C Force and Motion	Strand D Processes that Shape the Earth	Strand E Earth and Space	Strand F The Processes of Life	Strand H The Nature of Science
atoms (M)** attributes boiling point(M) Celsius characteristics chemical changes(M)** combustibility compounds** condensation(M) conductivity(M) conductors(M) conservation of matter*(M) density(M)** ductile electron elements** evaporation(M)** freezing(M) heat(M)** insulators luster malleable mass(M)** melting point(M) metals mixtures*(M)** molecules(M) neutron nonmetals nucleus particles periodic table	battery terminal biomass chemical bonds chemical energy(M) compression concave conduction*(M) conductor(M) convection*(M) convex dry cell electric charge electric circuit* electric current(M) electric force electricity(M) electromagnet electron energy** filament fossil fuels frequency geothermal energy hydroelectric energy insulator kinetic energy** law of conservation of energy lens light energy magnetism**(M) mechanical energy molecules*(M) negative charge	acceleration action force attraction balanced forces* compound machines conservation of momentum deceleration distance effort force** frame of reference friction** fulcrum* ** gravitation** inclined plane** inertia** joules lever* ** load machine* magnetic field magnetism** * momentum* motion* net force Newton's Laws of Motion poles position power pulley* **	air pressure anthracite atmosphere condensation* ** continental drift* continental shelf core* crust** delta deposition* ** earthquake erosion* ** evaporation* ** fault* fossil* ** fossil fuels glaciers* global warming greenhouse effect* humidity ice wedging landforms lignite magma* mantle* mass movement microclimate natural gas natural resource nitrogen cycle nonrenewable resource pangea peat	absolute magnitude apparent magnitude asteroid*(M) astronomy* axis* convection zone cornea eclipse ellipse elliptical galaxy* (M)** light year lithosphere magnitude main sequence mesosphere moon phases*(M) nebula orbit*(M) ozone photosphere prominence* protostar radiation zone revolution* rotation* satellite(M) solar flare solar wind space probe sunspot* stratosphere telescope troposphere	asexual reproduction(M) cell(M) cell division(M) cell membrane cellular respiration cell wall chlorophyll chloroplast chromosome cytoplasm dicots diffusion dominant trait embryo epidermis fibrous root gene germinate gravitropism inherited trait life cycle(M) meiosis(M) mitosis(M) monocots nonvascular nucleus organ* organelle osmosis phloem photosynthesis* phototropism pistil	balance *(M) beaker* centimeter* classify* communicate* compare* constant* control* data does not support* data supports* dependent variable* experiment* ** gather data* graduated cylinder*(M) gram* hand lens* hypothesize* identify* independent variable* infer* investigation* ** kilogram* liter* make conclusions* measure* meter* meterstick* metric system* microscope* milliliter* model* observe*(M) predict*(M) record data*

Science
Grade 5 Continued

<p>phase changes(M) physical changes** physical property proton reactivity solubility solute solutions** solvent states of matter**(M) sublimation temperature* (M) thermal energy volume</p>	<p>nonrenewable resource** nuclear energy opaque parallel circuit pitch positive charge potential energy**(M) radiation(M) reflection* ** refraction* ** renewable resource* ** resistor series circuit short circuit solar energy sound energy static electricity thermal energy tidal energy transformation of energy transparent ultraviolet light vibrations volume* wave length(M) waves* wind energy</p>	<p>reaction force repulsion screw* simple machines* speed(M) unbalanced forces velocity watts wedge wheel and axle** work</p>	<p>plate* precipitation* recycling renewable resource reusable resource sediment stalactite* stalagmite* subduction zone volcano weathering(M)</p>	<p>universe wane* wax*</p>	<p>pollen recessive trait seedling sexual reproduction(M) spore stamen stigma stomata system taproot tissue(M) tropism vascular xylem</p>	<p>repetition* scientific method* ** temperature* (M) thermometer*(M) trial* using models* variable*</p>
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*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

Social Studies
Grade K

Time, Continuity and Change (History)	People, Places, Environments (Geography)	Government and the Citizen (Civics and Government)	Production, Distribution, and Consumption (Economics)
Abraham Lincoln (M) America (M) artist (M) arts change * (M) Christopher Columbus (M) George Washington (M) history * (M) inventor * (M) Martin Luther King, Jr. (M) past (M) Pledge of Allegiance (M) scientist (M) science Thanksgiving (M) today (M) tomorrow (M) tools (M) yesterday (M)	address * bar graph (M) bridge continent (M) desert * (M) earth forest* (M) globe (M) home (M) island lake * (M) land (M) map *(M) mountain (M) neighbor neighborhood (M) ocean * (M) planet river *(M) school * (M) United States (M) water world (M) world map	art (M) calendar (M) city * (M) country * (M) day (M) election fairness family * (M) feelings friendship * helper holiday (M) law * (M) leader* (M) president * (M) principal problem resource rules * (M) safety season (M) shelter (M) state * (M) teacher * transportation (M) weather (M) week (M) year (M)	bank (M) factory (M) farm (M) market (M) money * (M) needs (M) recycle * (M) trade (M) wants (M) worker (M)

*Words, phrases appear in multiple grade level

*(M) included on Marzano's word list

Social Studies
Grade 1

Time, Continuity and Change (History)	People, Places, Environments (Geography)	Government and the Citizen (Civics and Government)	Production, Distribution, and Consumption (Economics)
celebrate (M) change * (M) history* (M) holiday (M) inventor * (M) printing press (M) religion (M) timeline (M)	address Broward calendar skills (M) coast (M) country * (M) desert *(M) diagram direction (M) distance (M) factory (M) farm (M) Florida forest (M) harbor hill * (M) lake * (M) map* (M) map key * mountain (M) ocean * (M) pictograph (M) plain * (M) region (M) resources river * (M) school * (M) seasons (M) shore state * (M) symbol (M)	apartment citizen (M) city * (M) community (M) family * (M) flag (M) folk tale (M) friend * group * hero law *(M) leader (M) learn needs (M) neighborhood (M) president *(M) rule * (M) sculpture (M) services (M) shelter (M) teacher * transportation (M) vote (M)	choice goods * (M) job (M) money * (M) natural resource (M) needs * (M) post office recycle * (M) wants (M)

* Word, phrase appear in multiple grade-levels
 (M) Word included on Marzano's word list

Social Studies
Grade 2

Time, Continuity, and Change (History)	People, Places, Environments (Geography)	Government and the Citizen (Civics)	Production, Distribution, and Consumption (Economics)
ancestor (M) artifact (M) colony (M) custom (M) history (M) holiday M immigrant (M) landmark (M) motto (M) pioneer (M) settler (M) space exploration (M)	capital (M) cause (M) citizen (M) city (M) communication community (M) Congress (M) country (M) effect freedom (M) government (M) group independence (M) invention judge law (M) lawmaker (M) leader (M) mayor (M) monument neighborhood (M) prediction president (M) rule (M) shelter (M) taxes (M)	business (M) citrus conservation consumer (M) crop (M) factory (M) flow chart (M) goods (M) grove income (M) needs *(M) pollution (M) producer (M) resource (M) services (M) trade (M) transportation (M)	boundary (M) city (M) compass rose continent (M) desert (M) direction (M) distance (M) equator (M) geography (M) globe (M) grid island lake (M) landform (M) legend (M) map * (M) map key * mountain (M) ocean (M) plain * (M) port (M) region (M) river (M) route scale (M) state (M) suburb (M) swamp symbol (M) valley

* Word, phrase appear in multiple grade-levels
(M) Word included on Marzano's word list

Social Studies
Grade 3

Time, Continuity, and Change (History)	People, Places, Environments (Geography)	Government and The Citizen (Civics)	Production, Distribution, and Consumption (Economics)
ancestor ancient (M) archeology (M)* artifact (M) century (M) climate (M) communication (M) compass (M) crusades cuneiform (M) decade (M) disaster folktale (M)* gateway hieroglyphics history (M)* invention (M)* legend (M)* literature middle ages millennium monsoon mummy myth (M) papyrus pollution (M) population (M) renaissance satellite (M) sequence tall tale (M) transcontinental transportation (M)* slave (M)	acropolis bar graph border boundary (M) canal causeway cardinal directions city-state coast colony (M) compass rose conquistador continent custom (M) delta desert (M)* distance scale equator (M) flow chart (M) founder (M) geography (M)* ghost town (M) gladiator globe (M)* grid (M) harbor (M)* hemisphere (M) heritage immigrant(M) intermediate directions landform (M) lines of longitude (M) location (M) manor (M) map (M) map key (M)* mediator missionary (M) mountain range (M) ocean (M)* peninsula physical geography (M) pictograph (M)	allegiance (M) amendment (M) anthem (M) ballot campaign (M) candidate (M) citizenship (M) civil war (M) civilization compromise (M) conflict resolution congress (M)* conquer consequence constitution (M)* council culture * democracy (M) dictator * election (M)* empire (M) government (M)* government services governor (M) imperialism independence (M)* jury kingdom (M) knight law (M)* lord majority rule (M) mayor (M)* judge	advertisement (M) agriculture (M) barter (M) basic needs competition (M) consumer (M) crop (M) demand (M) export (M) fertile (M) fossil fuel (M) growing season import (M) industry international trade (M) manufacture (M) supply (M)

**Social Studies
Grade 3 Continued**

	plateau port (M)* province (M)* pyramid (M) rain forest (M) rapids reservoir riverbank route rural (M) scribe settlement (M) silt (M) society (M) source suburb (M) symbol tepee timeline valley		
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*words, phrases appear in multiple grade levels

**Indicates FCAT vocabulary

(M) included on Marzano's word list

Social Studies
Grade 4

Time, Continuity, and Change (History)	People, Places, Environments (Geography)	Government and the Citizen (Civics)	Production, Distribution, and Consumption (Economics)
adapt ancestor (M)* artifact (M) aviation (M) climate (M) drought (M) extinct glacier humid tropical climate (M) hurricane precipitation (M) satellite (M)* storm technology (M) temperature (M) tornado (M)	abolitionist (M) aquifer archeologist (M) astronaut bay cape classify compare & contrast continent (M)* continent shelf culture (M) descendant diverse elevation (M) equator (M)* estuary habitat harbor (M)* hemisphere (M)* indentured servant (M) inlet interpreter line graph lines of latitude (M)* metropolitan mountain range (M)* nomad panhandle peninsula plantation (M) prime meridian (M) refugee relative rural savanna (M) sinkhole suburb (M)* swamp tributary urban wetlands (M)	alliance (M) amendment (M) armistice civil rights (M) civil war (M) confederacy (M) emancipation proclamation government (M)* independence (M)* land grant loyalist (M) patriotism (M) raid reconstruction revolution (M) secede (M) segregation (M) suffrage movement (M) treaty (M) union volunteer (M)	advertising (M)* barter (M)* blockade boom boycott bust conservation consumer (M)* credit (M) debt (M) depression (M) economy (M) fertile (M) gatherers goods (M)* growing season hunters income (M)* industry manufacturing negotiate nonrenewable resource (M) petroleum (M) plaza products (M)* recycle renewable resource (M) scarce sharecropper shortage stock tax (M) trade (M)* wealth

*words, phrases appear in multiple grade levels

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Social Studies
Grade 5

Time, Continuity, and Change (History)	People, Places, Environments (Geography)	Government and the Citizen (Civics)	Production, Distribution, and Consumption (Economics)
airlift aviation (M) climograph evidence expedition hydroelectric dam jazz legend (M)* massacre migration missile origin (M) prejudice quarter scurvy tepee terrorism theory transcontinental railroad	archaeologist (M)* arid (M) barrio bonanza borderlands broker buffer ceremonies (M) class concentration camp culture dictator homesteaders hostage hub longhouse mercenary (M) metropolitan (M) minuteman mission noble nomad * northwest passage open range pilgrim (M) presidio proprietor province (M)* refinery relocation camp reservation separatist (M) skyscraper tenement	ally armada armistice arms-race authority (M) bureaucracy (M) cease-fire city-state civilian cold war (M) colony (M) commonwealth communism (M) compact confederation (M) congress (M)* continental congress (M) council democracy (M)* détente dove elections (M)* empire enlist federation free world front hawk imperialism legislature (M) liberty (M) loyalist (M)* naturalization parliament (M) patriot (M) petition progressive regulation (M) repeal representation (M)	agent assembly line (M) auction blockade boycott capital resource (M) conservation consolidate consumer goods (M) corporation deficit (M) deforestation depression (M)* embargo entrepreneur (M) free enterprise (M) free-trade agreement (M) industry installment buying interest rates (M) invest (M) labor union (M) monopoly (M) profit (M) rationing self-sufficient (M) stock market (M) tariff (M) tax (M)* trade (M)*

Social Studies
Grade 5 Continued

		self-government slavery (M) strike superpower treason (M)	
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* Word, phrase appear in multiple grade-levels

** Word may appear on FCAT test

(M) Word included on Marzano's word list

Technology
Grades K-2

backspace key (M)
computer (M)
computer program (M)
CD-ROM (M)
e-mail (M)
enter key (M)
escape key (M)
Internet (M)
keyboard (M)
keyboarding (M)
login (M)
menu (M)
monitor (M)
mouse (M)
online (M)
power-up (M)
power supply (M)
printer (M)
reboot (M)
return key (M)
space bar (M)
virus (M)
word processor (M)
World Wide Web (M)

(M) included on Marzano's word list

**Technology
Grades 3-5**

Third Grade	Fourth Grade	Fifth Grade
cursor (M) desktop (M) menu (M) edit (M) email (M) * email address Icon (M) Internet (M) * internet address online (M) * word processor (M)	copy (M) digital camera download (M) hard drive (M) home page (M) memory (M) paste scanner (M) virus (M) *	copyright law (M) copyright violation (M) database (M) Local Area Network (LAN) modem (M) network (M) search engine spreadsheet (M) troubleshooting (M)

(M) included on Marzano's word list

* included in previous grade levels