

The next pages provide information about Marzano’s academic vocabulary for student success.

Suggestions for Using Marzano’s Vocabulary and Concepts

Utilize four critical questions in lesson planning and presentation:

1. What do we want students to be able to know and do?
 2. How will we know if they are able to do it?
 3. What will we do if they are not able to do it?
 4. What will we do if they already know how to do it?
- Determine what vocabulary words students already know.
 - Assess how the vocabulary fits with the adopted standards at appropriate grade level.
 - Utilize Bloom’s Taxonomy to develop strategies for higher level critical thinking skills: knowledge, comprehension, application, analysis, synthesis, evaluation and link the common core and detail in Domains 2 and 3 of the teacher evaluation rubric.
 - Relate the words to the student’s background.
 - Have grade level planning groups to develop strategies.
 - Develop a “Word Wall” for each content area; Science, Math, Social Studies, Reading, etc.
 - Develop spelling strategies (not in isolation) for comprehension development.
 - Post and link a vocabulary “Word for the Day” to each content area.
 - Develop strategies to identify word patterns, parts of speech, root words, etc.
 - Assess and evaluate students’ learning of the vocabulary and concepts.

Vocabulary and Concepts for Grades K-2

Building Background Knowledge for Academic Achievement (2005)

Research on What Works in Schools

Robert J. Marzano

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Level 1: Grades K-2,

Level 2: Grades 3-5,

Level 3: Grades 6-8, and

Level 4: Grades 9-12.

Marzano credits twenty-eight national standards documents that served as the sources for the terms, and reminds the reader that these terms are not a definitive listing but a place to start. He advocates “districts and schools to adapt and supplement the lists in any way they see fit, depending on how a given subject area is taught.”

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Mathematics, Grades K - 2

above	inch	second (time)
addition	increasing pattern	set
area	inside	shape combination
behind	left	shape division
below	length	shape pattern
between	less than	similarity
calendar	lists	size
cardinal number	location	sound pattern
chance	measuring cup	square
circle	minute	standard measures of time
clock	model	standard measures of weight
coin	money	subtraction
corner	near	sum
day	number	table
decreasing pattern	number line	temperature
difference	numeral	temperature estimation
direction	numeric pattern	temperature measurement
distance	ordinal number	time interval
estimate answer	orientation	triangle
foot (measurement)	outcome	under
graph	outside	volume
greater than	pattern	week
grouping	pattern extension	whole number
guess and check	pound	width
height	prediction	year
hour	rectangle	zero
in front	right	

Science, Grades K - 2

air	liquid water	seasonal change
animal features	location	seasonal weather pattern
balance	machine	shape
behavior pattern	magnet	shelter
boulder	magnification	similarities & differences
burning	magnifier	among organisms
chart	mammoth	size
circular motion	mixture	sky
cloud	month	soil
color	Moon	solid rock
computer	motion	sound
daily weather pattern	night	star
day	observation	star age
death	ocean	star brightness
dinosaur	parent	states of matter
dissolving	parent/offspring similarity	straight -line motion
distance	pebble	Sun's position
diversity of life	plant	Sun's size
Earth materials	plant growth	teamwork
Earth's gravity	position	temperature
Earth's rotation	precipitation	the senses
egg	prediction	thermometer
energy	prehistoric animals	universe
food	properties of light	vibration
freezing	pulling	water
gas	pushing	weather
growth	reasoning	weather conditions
habitat	requirements for life	weather patterns
heat	rock characteristics	week
horsetail tree	ruler	weight
individual differences	salt water	wind
insect	sand	year
light	science	zigzag motion
liquid	scientist	

English language Arts, Grades K - 2

alphabet	picture dictionary
author	poem
back cover	predictable book
beginning consonant	prewriting
blend	print
book	publish
cartoon	purpose
chapter	question
character	reread
composition	respond to literature
comprehension	retell
consonant blend	rhyme
conversation	sentence
cover	short vowel
date	sight word
dictionary	sign
discussion	speech
drawing	spelling
ending consonant	spelling pattern
everyday language	symbol
fairy tale	table of contents
first name	take turns
folktale	television program
follow/give directions	textbook
front cover	theater
group discussion	title
guest speaker	title page
keyboarding	typing
language	uppercase
last name	videotape
letter	villain
letter-sound relationship	vocabulary
listening skill	vowel combination
long vowel	vowel sound
lowercase	
magazine	
main character	
main idea	
map	
margin	
mental image	
message	
movie	
newspaper	
number word	
order of events	
parts of a book	
photographer	
picture book	

General History,**Grades K - 2**

Abraham Lincoln	father of our country	picture time line
America	folktale	pioneer
American Revolution, 1776	Fourth of July	place-name
ancient time	freedom	plant cultivation
archeological evidence	future	Pledge of Allegiance
argument	generation	Plymouth
automobile	geography	pony express
beginning	George Washington	prairie
behavior	goods	present
belief	government	printing press
Benjamin Franklin	group membership	radio
bow and arrow	harvest festival	recent past
bridge	heroism	recreation
building	history	region
calendar time	holiday	regional folk hero
camel caravan	houses of worship	regional song
cause	housing	religion
celebration	human rights	resistance
ceremony	hunger	respect for others
chariot	hunter/gatherer	responsibility
Christmas	idea	revolution
Christopher Columbus	independence	role
city	individual rights	rules
colonial community	invention	satellite system
common good	job	sculpture
community	journey	senior citizen home
country	law	services
cowboy	leader	society
crop	legend	soup kitchen
cultural tradition	Liberty Bell	state
daily life	lifestyle	steam engine
dance	local history	steamship
day	Martin Luther King Jr.	surplus food
decade	Martin Luther King Jr. Day	symbol
democracy	Memorial Day	tall tale
disagreement	middle	team member
domesticated animal	money	technology
education	month	telegraph
ending date	monument	temple
England	myth	territory
English colony	nation	Thanksgiving
environment	national flag	Thomas Jefferson
equality	national holiday	time line
event	Native American	today
expansion	newcomer	tomorrow
explorer	non-motorized vehicle	tool
fable	oral tradition	town
family history	origin	trade
family life	past	trail
farm	photograph	transportation

travel
United States
vote
war
orpus

week
wheel
White House
worker

world
year
yesterday

Geography, Grades K - 2

airport	mile
America	mountain
area	museum
barrier	nation
body of water	neighborhood
California	ocean
city	park
city park	pattern
climate	pipeline
climate change	place
coast	plant population
cold climate	population
community	position
community project	railroad
competition	rainfall
construction	region
country	river
creek	road
crop	rural region
custom	seasons
dam	settlement
desert	shelter
direction	ship
distance	shopping center
downtown	soil
elevation	sports stadium
exploration	state
factory	stream
family	temperature
farming	timber
fishing	town
flood	transportation
forest	United States
fuel	urban area
globe	vegetation
government	village
graph	weather
highway	wildlife
hill	world
home	yard size
hospital	
hotel	
housing	
lake	
land	
local community	
location	
map	
measurement	

Civics, Grades K - 2

accept responsibility for
one's actions
agreement
authority
citizen
control
duty
education
election
flag
good law
good rule
government
honesty
individual
justice
law
leader
nation
national anthem
official
open-mindedness
order
Pledge of Allegiance
police authority
power
privacy
qualifications
race
religion
respect for law
respect for the rights of
others
responsibility
rights
rule
school
symbol
take turns
territory
trade
transportation
truth
United States
volunteer
vote
war

Economics, Grades K - 2

advertising

bank

business

buyer

coin

cost

debt

dime

dollar

earn

goods

job

labor

loss

money

needs

penny

poverty

price

quarter

sale

save

sell

seller

services

skills

spending

wants

worker

Health, Grades K - 2

911	family member	name calling
abuse	fat	nurse
argument	feelings	paramedic
birth	feelings of others	police officer
bleeding	fever	pollution
blood	fire safety	precaution
bruise	food group	rash
conflict	food handling	rest
congestion	gums	risk
cough	hand washing	safety rule
cut	harmful substance	scratch
death	health	simple injury
dentist	helmet	skin
diet	hospital	stranger
disease	human body	symptom
divorce	illness	tooth decay
doctor	injury	traffic safety
drug	listening skill	water safety
emergency	marriage	wheezing
exercise	medicine	
extended family	nails	

Physical Education, Grades K - 2

ability
activity
arm preparation
balance
body shape
breathing rate
catch
circling
climbing
coach
exercise
flexibility
galloping
game
game rule
glove
goal
gymnasium
headstand
heart rate
hopping
jogging
joint
jump rope
jumping
kick & strike
landing
lifting
losing
lunging
outdoor activity
overhand throw
pass a ball
perspiration
player
practice
race
ready position
riding
running
score
sit-&-reach position
skill
skipping
sliding
speed
sport
stretching
take-off
team sport
throwing
throwing arm
turn taking
turning
twisting
underhand throw
winning

Arts General, Grades K - 2

applause

art

artist

audience

clapping

costume

dance

entertainer

film

music

pattern

sequence

stage

theater

universal concept

Dance, Grades K - 2

bend

dancer

distance

ending

fall

forward

height

hop

landing

leap

middle

sideward

skip

straight

strength

stretch

turn

twist

Music, Grades K - 2

body sound

instrument

loudness

lullaby

melody

musician

partner song

piano

sing

song

strum

swaying

symbol for note

voice

Theater, Grades K - 2

act

actor

dramatic, play

story

writer

Visual Arts, Grades K - 2

brush

camera

paint

Technology, Grades K - 2

backspace key

computer

computer program

diskette

enter key

escape key

floppy disk

hand position

home row

Internet

keyboard

login

menu

monitor

mouse

power supply

power-up

printer

reboot

return key

space bar

special keys

World Wide Web

Vocabulary and Concepts for Grades 3-5

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Mathematics, Grades 3 - 5

2-dimensional shape	dividend	irrelevant information in a
2-dimensional shape combination	divisibility	problem
2-dimensional shape decomposition	division	isosceles triangle
2-dimensional shape slide	elapsed time	least common multiple
2-dimensional shape turn	English system of measurement	line graph
2-dimensional space	equation	linear pattern
3-dimensional shape	equilateral triangle	mass
3-dimensional shape combination	equivalent forms	mean
acute angle	equivalent fractions	measurement
addend	equivalent representation	measures of central tendency
addition algorithm	estimation	measures of height
angle	estimation of fractions	measures of length
angle measurement tool	estimation of height	measures of width
angle unit	estimation of length	median
area	estimation of width	meter
associative property	even numbers	metric system
bar graph	event likelihood	midpoint
basic number combinations	expanded notation	mixed numbers
capacity	extreme value	mode
centimeter	faces of a shape	multiple
certainty (probability)	factors	multiplication
circumference	flip transformation	negative number
classes of triangles	fraction	number of faces
cluster	fraction addition	number pairs
common denominator	fraction division	number sentence
common fractions	fraction multiplication	number triplet
commutative property	fraction subtraction	obtuse angle
conservation of area	fractions of different size	odd numbers
constant	front-end digits	open sentence
corresponding angles	front-end estimation	order of operations
corresponding sides	function	parallel lines
cube	geometric pattern	parallelogram
cylinder	geometric patterns	parallelogram formula
data	extension	part to whole
data cluster	gram	path
data collection method	greatest common factor	pattern addition
decimal	growing pattern	pattern subtraction
decimal addition	histogram	percent
decimal division	horizontal axis	perimeter
decimal estimation	identity property	perpendicular lines
decimal multiplication	improbability	pie chart
decimal subtraction	improper fraction	positive number
diagram	inequality	prime factorization
different size units	inequality solutions	prime number
distributive property	intersection of shapes	prism
	invalid argument	probability
	investigation	process of elimination

product
proof
pyramid
quotient
rectangle formula
rectangular prism
reduced form
relative distance
relative magnitude
relative magnitude of
fractions
relative size
relevant information in a
 problem
remainder
repeating pattern
restate a problem
reversing order of
operations
rhombus

right angle
rotation
rounding
ruler
same size units
sample
scale
shape similarity
shape symmetry
shape transformation
shrinking pattern
sphere
standard vs. nonstandard
units
studies
subset
subtraction algorithm
surface area
survey
symbolic representation

tallies
time zone
trial & error
triangle formula
truncation
unit conversion
unit differences
unlike denominators
valid argument
variability
Venn diagram
verbal representation of a
 problem
verification
vertical axis
volume measurement
volume of irregular shapes
volume of rectangular solids

Science, Grades 3 - 5

ability to support life	density	light reflection
acceleration	detrimental change	light refraction
air movement	disease	living organism
animal product	drought	logical argument
apparent movement of the planets	Earth's axis	magnetic attraction
apparent movement of the stars	Earth's orbit	magnetic repulsion
apparent movement of the Sun	Earth's surface	mass
applied force	Earth's temperature	measurement of motion
astronomical distance	earthquake	melting point
astronomical object	electrical charge	metal
astronomical size	electrical circuit	microscope
astronomy	electrical current	migration
battery	electricity	mineral
bedrock	energy transfer	Moon's orbit
beneficial change	engineering	Moon's phases
birth	environment	naturalistic observation
body of water	environmental changes	nutrients
boiling point	environmental conditions	ocean currents
bones/no bones	erosion	offspring
calculator	evaporation	oil
cause & effect	external cue	omnivore
change of direction	extinction	ongoing process of science
change of motion	food chain	organism
change of speed	food web	outer space
changes in the Earth's surface	force strength	phase change
characteristics of air	forms of energy	photosynthetic plants
charge attraction	forms of water	physical properties
charge repulsion	formula	physical setting
classification of substances	fossil	pitch
competition	fossil evidence	planet
composition of matter	fresh water	plant organ
condensation	friction	plant product
conduction	gases of the atmosphere	plant root
conductivity	generator	plant/animal
conductor	glacial movement	pollution
conservation of mass	glacier	population
conservation of matter	graduated cylinder	population density
constellation	graph	position over time
control of variables	ground water	predator
controlled experiment	heat conduction	prehistoric environment
cooling	heat transfer	prehistoric organisms
core	herbivore	properties of soil
data analysis	history of science	properties of sound
data interpretation	inherited characteristic	properties of water
data presentation	land form	question formulation
	landslide	recycle
	life cycle	relative position
	light absorption	replicable experiment
	light emission	reproducible result

reproduction
resource availability
rock breakage
rock composition
rock cycle
scientific equipment
scientific evidence
scientific experiment

soil color
soil composition
soil texture
Solar System
solubility
stored energy
survival of organisms
technology

telescope
tide
volcanic eruption
water capacity
weathered rock
weathering
wind patterns

English Language Arts Grades 3-5

abbreviation	custom	interrogative sentence
action verb	declarative sentence	introduction
action word	decode	investigate
actor	definition	invitation
adjective	detail	irregular plural noun
adverb	diary	journal
advertisement	direct quote	key word
affix	directions	learning log
animation	director	legend
antonym	discussion leader	letter of request
apology	double negative	linking verb
apostrophe	draft	list
appendix	drama	listening comprehension
asking permission	edit	literature
audience	e-mail	meaning clue
audiotape	encyclopedia	memory aid
auxiliary verb	ending	minor character
brainstorm	essay	miscue
capitalization	example	mood
card catalog	explanation	motive
cause and effect	expression	multi-meaning word
central idea	fable	multiple drafts
chapter title	facial expression	multiple sources
character development	fantasy	mystery
chart	fiction	myth
checklist	first person	negative
children's literature	form	news
chronological order	friendly letter	newspaper section
citation	genre	nonfiction
closing sentence	gesture	notes
colon	glossary	noun
comma	grammar	novel
command	graphic artist	numerical adjective
commercial	graphic organizer	object
common noun	graphics	opinion
compare & contrast	greeting	oral presentation
complete sentence	guide words	oral report
complex sentence	heading	organization
compound word	headline	outline
concluding statement	host	pamphlet
conclusion	hostess	paragraph
consonant substitution	how question	passage
construct meaning	humor	past tense
content area vocabulary	illustration	peer review
context clue	imagery	pen pal
contraction	indentation	period
contrast	index	personal letter
cue	inference	personal pronoun
cursive	Internet	phone directory

phonetic analysis	sound effect
phrase	source
pitch	special effect
plot	spoken text
plot development	stay on topic
point of view	story element
posing a question	story map
possessive noun	story structure
possessive pronoun	subject
posture	subject-verb agreement
preface	suffix
prefix	summarize
preposition	summary
prepositional phrase	summary sentence
presentation	supporting detail
preview	suspense
prior knowledge	syllabication
pronoun	syllable
pronunciation	symbolism
proofread	synonym
prop	table
proper noun	tall tale
punctuation	target language
question mark	tense
quotation	text
quotation marks	thank you letter
r-controlled	theme
radio program	theme music
rating	thesaurus
reading strategy	third person
reading vocabulary	time line
regular plural noun	tone
regular verb	topic sentence
request	typeface
revise	usage
rhyming dictionary	verb
role playing	voice
root word	voice level
rules of conversation	volume
scan	Website
science fiction	when question
second person	where question
sensory image	why question
sentence structure	word choice
sequential order	word family
setting	word search
short story	written directions
signature	written exchange
singular noun	
skim	

General History, Grades

A.D.
abolition movement
abolitionist
acceptable behavior
Adolf Hitler
Africa
African American
African slave trade
agriculture
aircraft carrier
Alaska
Alexander Graham Bell
alliance
Allied Powers
Amelia Earhart
American Indian chief
American society
American symbol
Americas, the
ancestor worship
ancient Greece
ancient Rome
Angel Island
annexation
Anno Domini
anti-Chinese movement
aqueduct
archeologist
archeology
architect
architecture
armed forces
artifact
artistic expression
Asia
Asian American
Asian Pacific settler
assembly line
Astoria
astrolabe
attitudes
authors interpretation
autobiography
aviation
Aztec
ballad
Bantu migrations in Africa
B.C., Before Christ

3-5

B.C.E., Before the Common Era
behavior consequence
behavior pattern
Bering land bridge
Betty Zane
big business
Bill of Rights
Billy the Kid
biography
Black Hawk War
blue-collar worker
Booker T. Washington
Boston Tea Party
Braille alphabet
Brer Rabbit
Britain
British Isle
bronze tool-making
technology
California
camel
campaign
Canada
canal system
Caribbean
caste system
castle
cattle herders
C.E.
Central Africa
Central America
century
Cesar Chavez
character trait
Cherokee
Cherokee Trail of Tears
China
Chinese community
Chinese New Year
Christian
Christianity
chronology
Cinco de Mayo
citizenship
civil liberties
civil rights
civil rights movement
civil war

Civil War (U.S.)
Clara Barton
class
climate changes
coal mining
coffee trade
Cold War
colonial government
colonial period
colonist
colony
Columbian Exchange
Columbus
commercial advertising
commercial center
Common Era
common man
communication technology
communism
compass
computer technology
conquest
constitution
convent
corruption
country of origin
court
craft
credibility
Cuba
Cuban Missile Crisis
cultural contact
cuneiform
custom
Daniel Boone
Davey Crockett
debt
Declaration of Independence
delegated power
democratic values
developing country
development
diplomacy
direct experience
discovery
disease
document
dugout Phoenician ship

Dust Bowl	food production	hymn
Dutch	food storage	immigrant
early Middle Ages	forced relocation	immigration
earnings	foreign policy	Incan Empire
earthquake	foreign trade	Incan highway
East Asia	former master	independence movement
Eastern Europe	former slave	Indian time
Eastern Hemisphere	France	indigenous people
economic interdependence	Francisco Franco	industrial development
economic system	Franklin D. Roosevelt	Industrial Revolution
Egypt	Frederick Douglass	industrial society
Egyptian time	freedom of expression	infectious disease
Eleanor Roosevelt	freedom of religion	institution
elected representative	freedom of speech	interest group
electricity	French colony	international conflict
Elizabeth Blackwell	French Revolution	Internet, the
Ellis Island	frontier	interpretation
emancipation	frontiersman	interstate highway system
Emancipation Proclamation	Galileo	Inuit
emperor	geographic border	iron
empire	geology	iron tools and weapons
employment	George Bush	Iroquois
Enlightenment	George W. Bush	Islam
entertainment industry	George Washington Carver	Islamic law
equal rights	Gerald Ford	Israel
era	Germany	Italy
Eric the Red	Geronimo	Jackie Robinson
Erie Canal	gold production	Jacques Cartier
ethnic diversity	Great Depression	James Armistead
ethnic tradition	group behavior	Japan
Europe	group expectations	Jedediah Smith
European colonization	gunpowder	Jesus of Nazareth
European Crusades	Hanging Gardens of	Jew
European explorer	Babylon	Jewish time
European settler	Harriet Tubman	Joe Magarac
expedition	Hawaii	John Glenn
extended family	Hawaiian culture	John Henry
eyewitness account	hemisphere	Jonas Salk
factory	Henry Ford	Judaism
family alliance	hieroglyphic	justice
family farm	historian	kingdom
family role	historic figure	labor
famine	historical document	Labor Day
Far West	historical map	labor movement
farming methods	home country	land use
Ferdinand Magellan	home front	landowner
fertilizer	homeless	landscape
first inhabitant	Hopi	Latin America
fishing community	household appliance	law and order
flooding pattern	human cost	League of Nations

Lee Iaccoca	motive	personal values
leisure activity	motorized vehicle	Philadelphia
lesson of history	motto	physical geography
life experience	mountain man	pictograph
Lincoln Memorial	mummification	pilgrim
literacy	Muslim	plague
literacy rate	Muslim time	planned city
local resource	Nathan Beman	plantation
London	national park	plantation colony
long-distance trade	national symbol	point of view
Louis Pasteur	Native American ancestors	policy issue
low-income area	Native American land	political cartoon
lunar year	holdings	political geography
luxury goods	Native American tribe	pollution
Lydia Darragh	natural environment	popular culture
majority rule	natural resource	popular figure
Mali	naval warfare	popular uprising
manor	navigation	population
manufacturing	New England	population growth
Marco Polo	New England colonies	postwar period
Marie Curie	New England mill town	pottery
mass advertising	New Orleans	poverty
mass media	New York	power by the people
mass production	newspaper account	Presidents Day
Mayan calendar	Nez Perce	principles
Mayflower Compact	nonviolent resistance	primary source
media	norm	private life
medical advance	Norse long ship	production
Medieval Europe	North America	professional sport
merchant	nuclear technology	property ownership
Mexican-American war	occupation	protest
Mexican migrant worker	ocean currents	proverb
Mexico	official	Pueblo
middle class	Old Northwest	Puerto Rico
Middle East	outlaw	Puritan values
middle passage	overland trade route	pyramids
migrant	overseas trade	race relations
migration	Pacific, the	racial group
military power	Pacific Rim economy	rail transportation
mill	Pacific Theater	railroad construction
mining town	Palestine	ranching
minority rights	parables	rapid transit
missionary	Paris	reconstruction
mode of communication	patriot	reform
modern democratic thought	pattern of change	reformer
modernization	Paul Bunyan	religious freedom
monk	peacekeeper	religious revival
Monroe Doctrine	peasant	reservation
Moslem	Pecos Bill	revolutionary government
mother country	period of history	right to hold office

right to life, liberty, and the pursuit of happiness	social reform	turning point in human history
right to vote	solar system	twentieth century
right to work	solar year	unification
ritual	Sojourner Truth	United Nations
road system	Southeast Asia	United States Constitution
rocketry	Southwest	university
Roman Empire	Southwest Asia	urban center
Roman Republic	Soviet Union	urban community
Roman system of roads	space exploration	vaccine
Rome	Spain	Vasco da Gama
Rosa Parks	Spanish-American War	Versailles
ruling class	Spanish colony	Versailles Treaty
rural area	spectator sport	Veterans Day
Russia	square rigger	veterans' memorial
Russian peasantry	St. Augustine	Vietnam
Sacramento	statehood	Vietnam War
Sally Ride	Statue of Liberty	Vietnamese boat people
San Antonio	steam locomotive	Vincennes
San Francisco	steel construction	volunteer
Scandinavia	street gang	voting rights
school attendance	submarine	W. E. B. DuBois
scientific breakthrough	suburb	weaving
secondary source	sugar cane	Western Europe
separation of church and state	superstition	Western Hemisphere
separation of powers	Susan B. Anthony	white-collar worker
settlement	systems of roads	Williamsburg
settler	tactic	women's movement
Seven Years' War	tax	Woodrow Wilson
ship design	Tecumseh	working conditions
silver production	Ten Commandments	workplace
Sioux	tenant	world economy
Sitka	Tenochtitlan	world population growth
slave	textile industry	World War I
slave holder	Timbuktu	World War II
slave rebellion	tobacco	written code
slave trade	tolerance	written language
slogan	trade route	written record
smuggling	tradition	Zheng He
social class	transport system	
of habeas corpus	transportation hub	
	tribute	

U.S History, Grades 3 - 5

1492	freedom ride	New Federalism
1896 election	French Quebec	New Frontier
1920s	French settlement	New Jersey Plan
13th Amendment	fur trade	New Mexico
14th Amendment	General Robert E. Lee	Northeast
15th Amendment	GI Bill	Oneida
16th Amendment	Golden Door	Onondaga
17th Amendment	Great Awakening	Open Door policy
18th Amendment	Great Plains	Oregon
19th Amendment	Harlem Renaissance	P. T. Barnum
Age of Exploration	Harry S. Truman	Panama Canal
Alamo	Herbert Hoover	Pearl Harbor
Alexander Hamilton	Hispanic American	Pennsylvania
American Expeditionary Force	“I Have a Dream” speech	Peter Cartwright
Andrew Jackson	indentured servant	post-Civil War period
Antietam	industrial North	pre-Columbus
Arab-Israeli crisis	internment of Japanese Americans	Prohibition
Articles of Confederation	Jacqueline Kennedy	Reagan revolution
Axis Powers	James Monroe	Revolutionary War
Battle of Bull Run	Jenne	Richard Henry Lee
Black Reconstruction	Jim Bowie	Richard Nixon
Boston	Jim Crow	Ronald Reagan
<i>Brown v. Board of Education</i> (1954)	Jimmy Caner	Sam Houston
Cabeza de Vaca	John Adams	Samuel Adams
Camelot image	John F. Kennedy	Santa Fe
Cayuga	John Hancock	Second Great Awakening
Charles Finney	King James I	Seminole removal
Chickasaw removal	Know-Nothing Party	Seneca
Chickasaw	Latino	sharecropper
Choctaw removal	Lexington and Concord	Shays Rebellion
coal mine strike	Louisiana	Shiloh
Confederacy	Louisiana Purchase	Silent Majority
Confederate Army	lower South colony	Songhai
Connecticut Compromise	Lyndon B. Johnson administration	spinning jenny
Constitutional Convention	Manassas	stock market crash of 1929
cotton gin	manifest destiny	suffrage movement
Cree removal	Mary McLeod Bethune	Supreme Court
December 7, 1941	Mid-Atlantic colony	taxation without representation
Democratic Party	minstrel show	Texas
escaped slave	Missouri Compromise	Texas War for Independence (1836)
European Theater	Mohawk	the East
Fort Sumter	Mormon	the North
Fourteen Points	Mother Mary Jones	the South
Francisco Vasquez de Coronado	Mt. Rushmore	the West
Fredericksburg	National Organization for Women	Theodore Roosevelt
Freedmen’s Bureau	New Deal	thirteen colonies
		Thomas Nast

Trail of Tears
Treaty of Guadalupe
Hidalgo
Treaty of Paris
Underground Railroad
U.S. territory
Union Army
Vicksburg
Virginia Plan
War of 1812
Warren Court
Watergate
westward expansion
Whiskey Rebellion
William H. Taft
yeoman farmer

World History, Grades 3 - 5

1948 UN Declaration of Human Rights	Cicero	Great Canal of China
African heritage	Cincinnatus	Greek city-state
Afro-Eurasia	class system	Greek gods and goddesses
Age of Enlightenment	Classical Greek art and architecture	Guangzhou
Alfred the Great	clay pottery	Gupta Empire
Americas	Commodore Matthew Perry	Haitian Revolution
Andes	Confucianism	Hajj
Arab Palestinian	Confucius	Han Empire.
Ashikaga period	Constantine	Hebrew Torah
Ashoka	Copernicus	Hegira (Hirjah)
Athenian democracy	Cortes journey into Mexico	Hellenist culture
Atlantic basin	court of Heian	Hellenistic art
Augustus	cowboy culture	Henri Matisse
Australia	Cro-Magnon	Hinduism
Aztec Empire	czar	hominid
Aztec "Foundation of Heaven"	Czar Nicholas II	Huang He (Yellow River) civilization
Baghdad	daily prayer (Salat)	human community
Balkans	dharma	Hundred Years' War
Bartholomew de las Casas	Diderot	Hungarian revolt
Battle of Hastings	discovery of diamonds	imperial conquest
Benito Mussolini	discovery of gold	independent lord
Berlin blockade	Dr. Sun Yatsen	India
Black Sea	Duchy of Moscow	Indian Ocean
Bombay	East Africa	Indian spice
Boxer Rebellion	Eastern Roman Empire	Indonesia
Brahmanism	Edmund Cartwright	Indus Valley
Brazil	elite status	industrial age
British East India Company	English civil war	international trade routes
Buddha	English Revolution of 1688	invention of paper
Buddhism	Eurasia	Ireland
Buenos Aires	Eurasian society	Jakarta tales
Byzantine Empire	European colonial rule	James Hargreaves
Byzantium	European conquest	James Watt
Cairo	European Economic Community	Japanese feudal society
Canton	European opium trade	Japanese tea ceremony
capture of Constantinople	father of modern Egypt	Jewish civilization
Carthage	feudal society	John Kay
cavalry warfare	founding of Rome	Joseph Stalin
celestial empire	French East India company	Julius Caesar
Central Asia	French invasion of Egypt in 1798	Justinian
Central Asian steppes	Garibaldi	Kaaba
Central Iberia	Garibaldi's nationalist	Kilwa
Central Powers	redshirts	King Affonso II of the Kongo and Po
Charlemagne	Genghis Khan	King Alfred of England
chivalry	goddesses	knight
Christian community	gods	knightly class
Christopher Columbus		Korea

Kush culture	Norse invasion	Songhai Empire
Lenin	North Africa	South America
Liberty, Equality, Fraternity	Nubia	South Korea
maize cultivation	Oceania	South Pacific
Malaysia	Olmec civilization	Southern Iberia
Mali Empire	Ottoman Empire	Soviet invasion of
Marcus Aurelius	Pablo Picasso	Czechoslovakia
Maurya empire	Pacific Islands	Spanish Civil War
Mayan city-state	Pan-Arabism	spice trade
Mayan pyramids	Paul the Apostle	Stonehenge
Mayan religion	Peru	Sub-Saharan Africa
Mediterranean region	Pharaoh	Suez Canal
Meiji Japan	Phoenicia	Suleiman the Magnificent
Mesoamerica	Pompeii	Sunna
Mesopotamia	pre-European life in the	Swahili
middle passage	Americas	Syria
Ming Dynasty	Qur'an/Koran	Taj Mahal, India
Moche civilization	Ramadan	Tang China
modern China	Rasputin	Tang Empire
Mohenjo-Daro	Reformation	Teotihuacan civilization
Mughal Empire	Renaissance	Tiberius Gracchus
Muhammad	Richard Arkwright	Tigris-Euphrates Valley
Muhammad Ali of Egypt	Safavid Empire	Tokugawa shogunate
Mycenaean Greek culture	Samurai class	Tokyo
Napoleon Bonaparte	scientific revolution	trans-Atlantic slave trade
Napoleonic period	Scipio Africanus	Turkey
Nazi holocaust	serf	Turkic Empire
Nazi war against the Jews	Shah Abbas I	West Africa
Neanderthal	Shang Dynasty	Western Roman Empire
Nero	Sheba	William the Conqueror
Netherlands	Siberia	Winston Churchill
New Kingdom	siege of Troy	Zapotec civilization
New Testament	silk roads	Zheng He maritime
New Zealand	Singapore	expeditions
Newton	Socrates	Zulu empire
Nile Delta	Solomon	
Nile Valley	Song Dynasty	
Treaty of Shimonoseki	Viking longboat	World influenza pandemic
(1895)	Vladimir of Kiev	1918-1919
Treaty of Versailles	Western hegemony	Young Turk Movement
Ukraine	Western political thought	Yuan Dynasty
Umayyad Dynasty	White Paper Reports on	Zionist Movement
“unified” India	Palestine	Zoroastrianism
Venice	White Russian	

Geography, Grades 3 - 5

accessibility	education system	landlocked country
aerial photograph	energy consumption	landmark
Africa	England	landscape
agricultural practice	environment	latitude
agriculture	environmental conditions	legend
air conditioning	Equator	life cycle
air pollution	erosion	life expectancy
Alaska	Europe	lifestyle
Antarctic Circle	European colonialism	local water
Appalachian Mountains	expansion	logging
Arizona	fall line	longitude
artifacts	famine	Louisiana
Asia	farmland	manufacturing plant
atmosphere	fast-food restaurant	map grid
billboards	fertile soil	map projection
boomtown	fire station	marketplace
boundary	flash flood	metropolitan area
Canada	food chain	Mexico
capacity	food supply	mineral resource
capital	food web	mining
cardinal direction	force	mining area
central business district	forest cover	Mississippi River
chart	forest fire	monsoon
city center	forestry	mountain pass
civil war	fossil fuel	mountain range
coal mining	France	mud slide
coastal area	Ganges River Valley	Muslim trading vessel
colonization	ghost town	national capital
Colorado mining town (19th century)	grassland	national forest
communication route	harbor	Native Americans
conservation issue	Hindus	natural disaster
contagious disease	historic site	natural hazard
continent	history of oil discovery	New Jersey
county	holy city.	North America
crop failure	houses on stilts	North Pole
crop yield	humid tropical climate	nuclear power plant
cultural tradition	Indian Ocean	ocean current
culture group	inhabitants	Pacific rim
culture.	International Date Line	parallel
discovery	invasion	Pennsylvania
Dominican Republic	iron	physical feature
downwind	iron ore	place of origin
drought	irrigation	plain
earthquake	Japan	plantation
Earth-sun relation	kilometer	plantation agriculture
East Asia	land clearing	plateau
East Coast	land use	plot
economic region	land use regulation	pollution
	landform	port

port city
precinct
precipitation
preservation
projection
province
rain forest
recreation area
recycling
refrigerated railroad car
refrigerated trucking
reusable
river system
Riyadh
road development
Ruhr
running water
Russia
satellite image
scale
scarce resource
scenic area

school attendance zone
section
single household
site
situation
smog
social class
society
soil conservation
soil region
solar energy
South
South America
South Pole
Spain
storage
style of homes
suburban area
technology
territory
Texas
timber cutting

time zone
topographic map
tornado
tourist center
township
trade pact
trade route
trade wind
transportation route
transportation system
vegetation region
volcano
volume
water availability
water basin
water crossing
water pollution
waterway
West Coast
wetland
wind storm
windward

Civics, Grades 3 - 5

absence of rules and laws	geographical representation	P.T.A.
abuse of power	governor	public good
alien	great seal	public office
American holiday	Greek democracy	public policy
American society	health services	public servant
benefits	highest law of the land	public utilities
Bill of Rights	human rights	pure food and drug laws
campaign	individual liberty	quality of life
candidate	individual responsibility	racial discrimination
Chamber of Commerce	individual rights	racial diversity
citizenship	invasion of privacy	reform
city council	jury duty	refugee
civic responsibility	Labor Day	religious belief
civic-mindedness	labor union	religious discrimination
clean air laws	law enforcement	representation
Columbus Day	lawmaker	representative
common good	leadership	revolution
community	legislator	right to a fair trial
compromise	liberty and justice for all	right to choose one's work
Congress	life, liberty, and the pursuit	right to criticize the
consent of the governed	of happiness	government
consider the rights and	local government	right to join a political party
interests of others	Martin Luther King Jr.	right to public education
courts	mayor	right to vote
Declaration of	Memorial Day	royalty
Independence	military force	rule by the people
democracy	military intervention	rule of law
diplomacy	national origin	school board
discrimination	national park	school prayer
discrimination based on age	national security	self-discipline
discrimination based on	negotiation	self-governance
disability	nobility	senator
discrimination based on	oath of office	slavery
ethnicity	patriotism	special interest group
discrimination based on	peaceful demonstration	state government
gender	personal responsibility	state legislature
discrimination based on	petition	state senator
language	political candidate	Statue of Justice
discrimination based on	political office	Statue of Liberty
religious belief	political party	Supreme Court
diversity	politics	taxes
elected representative	pollution	Thanksgiving
equal opportunity	population growth	trade agreement
equal pay for equal work	poverty	treaty
evidence	prejudice	tribal council
executive branch	president	tribal government
Fourth of July	presidential election	Uncle Sam
freedom of religion	Presidents Day	unemployment
freedom of speech	privilege	United States citizenship

United States Constitution
unlimited government
value

Veterans Day
volunteerism
welfare

world leader

Economics, Grades 3 - 5

advantage	firm	profit
barter	funds	profit opportunity
benefit	goods/services exchange	purchasing power
borrow	household	rent
business firm	incentive	resource
capital	income	resource scarcity
capital goods	income tax	revenue
capital resource	innovation	reward
competition	invention	risk
competitive market	investment	salary
consumer	investor	savings
consumption	limited budget	scarcity
contract	limited resources	shortage
contract negotiation	loan	specialization
credit	market	surplus
currency	natural resource	tax
customer service	partnership	trade
division of labor	payment	trade barrier
earnings	penalty	trade-off
economy	price decrease	training
employer	price increase	value
employment	producer	wage
entrepreneur	product	

Health Grades 3 - 5

acne
activity level
alcohol
calorie
cooking temperature
dental floss
dietitian
disability
drug abuse
early detection and
treatment
environment
exercise program
fiber
first- (second-, third-)
degree burn
first aid
food label
growth cycle
health goal
health screening
healthy relationship
HMO
infant

infectious disease
lifestyle
medical personnel
medication
minor burn
mood swing
mouth guard
neighborhood safety
nonprescription drug
nonviolent conflict
resolution
nutritional value
obesity
old age
over the counter medicine
overeating
parenthood
peer pressure
personal health goal
physical fitness
physician
poison
pregnancy
prescription medicine

protective equipment
psychological health
puberty
public health clinic
recreation safety
refusal skill
responsibility
self-control
sexual abuse
sexual maturation
smoking
social pressure
spoiled food
stress
stress management
sunscreen
tobacco abuse
treatment
voice change
warning label
weight gain
weight loss
well-being

Physical Education, Grades 3 - 5

arm & shoulder stretch	increased heart rate	rhythmical skill
athlete	individual sport	rink
athletic equipment	lifestyle	risk taking
balance board	lifetime sport	self-assessment
baseball	locomotor skill	self-expression through physical activity
basketball	motor skill	serve the ball
basketball chest pass	movement control	shoot the ball
bat	movement pattern	sideline
batting	muscle soreness	skate
body control	muscular endurance	skis
boxer	muscular strength	soccer dribble
championship	net & invasion game	softball
competitive sport	nonlocomotor skill	sport etiquette
conditioning	object-control skill	sport-specific skill
cool-down	offensive strategy	sports apparatus
course	opponent	sports club
court	personal challenge	sportsmanship
curl-up	personal space	stealing the ball
cyclist	physical fitness level	striking pattern
defensive strategy	physical fitness test	swimming
distance walk/run	physical injury	temporary tiredness
diver	power	tennis
endurance	procedure	timed walk/run
endurance activity	professional sport	to make a play
fielding	proper nutrition	track
fitness level	pull-up	training
fitness standard	pulse rate	transition movement
follow-through	punt	traveling pattern
foot dribble	push-up	trunk twist
football	racing start	warm-up
gymnastics	racket	weight -bearing activity
hand dribble	racket sport	wheelchair sports
hockey	recovery rate	
ice skates	recreational league	

Arts General, Grades 3 - 5

accompaniment
art form
artistic purpose
balance
beat
diction
emphasis
form
genre
improvisation
interpretation
lighting

mood
movement
originality
performance
performer
personal preference
professional
repetition
rhythm
scenery
set
setting

structure
style
subject matter
symbol
technical component
tempo
theme
timing
tone
visual artist
visual arts
work of art

Dance, Grades 3 - 5

balance
body position
body shape
dance phrase
dance step
energy
flexibility
focus

folk dance
following
in step
leading
line
mirroring
movement element
partner skill

personal space
rhythmic completion
shape
slide
supporting weight
taking weight
traditional dance
weight shift

Music, Grades 3 - 5

accent	guitar	recorder
alto	half note	repeat
arrangement	harmony	rest
art song	key signature	rhythmic variation
band instrument	keyboard	ritard
bass	keyboard instruments	rock music
chord	legato	round
classroom instruments	levels of difficulty	scale
compose	major key	sequencer
composer	march	sharp
conductor	measure	sixteenth note
cue	MIDI	skipping
diminuendo	minor key	snapping
Dixieland music	Musical Instrument	soprano
dotted note	Digital Interface	staccato
drum machine	musical phrase	staff
duet	musical piece	standard notation
echo	musical staff	string instrument
eighth note	nontraditional sound	symbol for articulation
electronic instrument	notation	synthesizer
electronic sound	orchestra conductor	tenor
elements of music	orchestral instrument	tie
embellishment	patriotic song	time signature
flat	percussion instrument	traditional sound
folk	pitch	treble clef
forte	posture	ukulele
fretted instrument	progression	whole note
gospel music	quarter note	work song

Theater, Grades 3 - 5

acting skill

action

cast

character

classroom dramatization

dialogue

drama

line

makeup

production

prop

role

social pretend play

villain

Visual Arts, Grades 3 - 5

art material
art process
art technique
art tools
artwork
balance
canvas
cardboard
casting
clay
color
color variation
complementary color
composition

construction
contrast
cool color
depth
elicited response
knife
medium
metal
models
oil paint
overlapping
perspective
plastic
scissors

sculpture
shading
shape
size variation
stone
varying color
varying size
videotape
viewer
visual structure
warm color
watercolor
wood

Technology, Grades 3 - 5

alphanumeric keys
back-up
connecting cable
copy
copyright law
cursor
data
data deletion
data records
data retrieval
data storage
database
delete key
desktop
disk drive
download
edit
electronic form
e-mail
file folder
function keys
graphics
hard disk
hard drive
hardware
help system
home page
information exchange
information retrieval
Internet browser
load a program
memory
modem
multiple solutions
online
print form
software
software piracy
speed of communication
storage
storage device
stored data
technical difficulty
troubleshooting
upload
virus
word processor

Vocabulary and Concepts for Grades 6-8

Building Background Knowledge for Academic Achievement (2005)

Research on What Works in Schools

Robert J. Marzano

Robert J. Marzano created an appendix in his book, *Building Background Knowledge for Academic Achievement* for the purpose of supporting teaching, learning, and preparing students for the world outside public education. In the appendix, he acknowledges multiple sources and states, “In this section, 7,923 vocabulary terms are listed for 11 subject areas.” He goes on to say that the terms are divided into four general grade groupings:

Level 1: Grades K-2,

Level 2: Grades 3-5,

Level 3: Grades 6-8, and

Level 4: Grades 9-12.

Marzano credits twenty-eight national standards documents that served as the sources for the terms, and reminds the reader that these terms are not a definitive listing but a place to start. He advocates “districts and schools to adapt and supplement the lists in any way they see fit, depending on how a given subject area is taught.”

Instructional leaders in New Mexico should note some terms are misplaced according to the current New Mexico Standards with Benchmarks for a given grade level. It is important to note that these terms provide the starting point for improving teaching and learning and should be reviewed and adapted to individual classrooms, schools, and districts.

Mathematics, Grades 6-8

3-dimensional shape cross section
3-dimensional space
addition of fractions
algebraic expression
algebraic expression expansion
algebraic representation
algebraic step function
alternate interior angle
angle bisector
approximate lines
area model
area of irregular shapes
array
axis of symmetry
base 10
base 60
benchmarking
biased sample
blueprint
box & whisker plot
certainty of conclusions
circle formula
circumference formula
combining like terms
complementary angle
complementary event
complex problem
composite number
congruence
conjecture
constant difference
constant rate of change
constant ratio
convert large number to small number
convert small number to large number
coordinate geometry
coordinate plane
coordinate system
counter example
counting procedure
cube number
cube root
cubic unit
data display error
data extreme
data gap
data set
deductive argument
deductive prediction
defining properties of shapes/figures
dilation
dispersion
distance formula
enlarging transformation
equal ratios
equation systems
experiment
exponent
exponential notation
fair chance
formula for missing values
frequency
frequency distribution
graphic representation of function
graphic solution
grid
growth rate
inductive reasoning
input/output table
integer
intercept
intersecting lines
irregular polygon
iterative sequence
large sample
limited sample
line symmetry
linear arithmetic sequence
linear equation
linear geometric sequence
linear units
logic All
logic AND
logic IF/THEN
logic NONE
logic NOT
logic OR
logic SOME
mathematical expression
maximum
method selection
minimum
multiple problem-solving strategies
multiple strategies for proofs
multiplication algorithm
mutually exclusive events
networks
nominal data
non-decimal numeration system
nonlinear equation
nonlinear function
non-routine vs. routine problems
number property
number systems
number theory
odds
ordered pairs
outliers
overestimation
parallel figures
pattern division
pattern multiplication
pattern recognition
percents above 100
percents below 1
perimeter formula
perpendicular bisector
perspective
pictorial representation
place holder
planar cross section
plane
plane figure
polygon
precision of measurement
prime factor
problem formulation
problem space
problem types
projection
proportion
proportional gain
quadratic equation
quadrilateral
random number

random sample	scatter plot	functions
random variable	scientific notation	table representation of
range	sequence	probability
range of-estimations	shrinking transformation	tessellation
rate	significant digits	tetrahedron
rate of change	similar proportions	theoretical probability
rational number	similarity vs. congruence	thermometer
rectangular coordinates	simplification	trapezoid formula
recursive sequence	slide transformation	tree diagram model
reference set	slope	triangle sides
reflection transformation	slope intercept formula	underestimation
relative frequency	solid figure	unit size
relatively prime	solution algorithm	unknown
reliability	solution probabilities	variable
Roman numeral	spreadsheet	variable change
root	square number	vertex
rotation symmetry	square root	volume formula
sample selection techniques	square units	volume of cylinder
sample space	stem and leaf plot	volume of prism
sampling error	straight edge and compass	volume of pyramid
scale drawing	substitution for unknowns	work backward
scale map	supplementary angle	written representation
scale transformation	table representation of	

Science, Grades 6-8

acquired trait	conflicting interpretations	geologic evidence
adaptive characteristics	conservation of energy	geologic force
air mass circulation	constant speed	geological shift
alternative explanation of data	continuation of species	gravitational force
animal nervous systems	crustal deformation	Greek basic four elements
asexual reproduction	crustal plate movement	habits of mind
asteroid	crystal	heat convection
asteroid impact	debris	heat emission
asteroid movement patterns	deceleration	heat energy
atmosphere	decomposer	heat radiation
atmospheric composition	digestive system	heat retention
atmospheric layers	direction of a force	hereditary information
atmospheric pressure	direction of motion	homeostasis
atom	displacement of results	host
atomic arrangement	Earth system	hydrosphere
balanced force	Earth's age	hypothesis
behavioral change in organisms	Earth's atmosphere	hypothesis testing
behavioral response to stimuli	Earth's climate	igneous rock
bias	Earth's crust	immune system
body plan	Earth's layers	inertia
carrying capacity	eclipse	infection
celestial body	ecological role	informed subject
cell	ecosystem	infrared radiation
cell division	egg cell	insulator
cell growth	electric current	intellectual honesty
characteristics of life	electrical energy	interdependence of organisms
chemical change	element stability	internal cue
chemical compound	emergence of life forms	internal structure
chemical element	energy source	invertebrate
chemical energy	erosion resistance	kinetic energy
chemical properties of substances	ethics in science	lever arm
chemical reaction	evaluation of science process	life form change
circulatory system	evidence from sedimentary rock	life-sustaining functions
classification of organisms	excretory system	light scattering
climate	experimental confirmation	light transmission
climate change	experimental control	light wavelength
climatic pattern	external feature	light year
closed system	faulty reasoning	lithosphere
color of light	filtering	logic
comet	food oxidization	Louis Pasteur
comet impact	forms of matter	mantle
comet movement patterns	fossil record	Marie Curie
common ancestry	fundamental unit of life	mathematical model
concentration of reactants	fungus	mechanical energy
confirmation by observation	galaxy	mechanical motion
	Galileo	metal reactivity
	gene	metamorphic rock
		meteor

meteor impact	planet surface features	skeletal system
meteor movement patterns	plant tissue	soil erosion
Milky Way galaxy	polygenic trait	soil fertility
molecular arrangement	predation	Solar System formation
molecular motion	prey	specialized cell
molecule	properties of elements	specialized organ
multicellular organism	pulley	specialized tissue
muscular system	radiation	species
mutualism	reaction rate	species diversity
nervous system	re-crystallization	speed
Newton's Laws of Motion	recycling of matter	sperm
nonmetal reactivity	reproductive system	sperm cell
non-reactive gas	research question	sunlight reflection
nuclear reaction	respiration	surface area of reactants
organ	respiratory system	surface run-off
organ system	right to refusal	taxonomy
organism system failure	risk and benefit	theoretical model
oxidation	rock layer movement	tissue
oxygen	rusting	tolerance of ambiguity
parasite	satellite	unbalanced force
particle ring	scientific interpretation	unicellular organism
peer review	scientific method	unity of life
percolation	scientific skepticism	universal solvent
photosynthesis	screening	vertebrate
physiological change	sediment deposition	visible light
Pierre Curie	sedimentary rock	water cycle
planet composition	sedimentation	wavelength
planet orbits	separation method	
planet size	sexual reproduction	

English Language Arts. Grades 6-8

action segment	derivation	homonym
active listener	description	homophone
adjective clause	descriptive language	hyphen
adjective phrase	diagram	imperative sentence
adverb clause	dialect	inconsistency
adverb phrase	dialogue	independent clause
almanac	document	informal language
Anglo-Saxon affix	documentary	information source
Anglo-Saxon root	editorial	interjection
argumentation	elaboration	interpretation
atlas	electronic media	interview
authors purpose	enunciation	intonation
autobiography	episode	irregular verb
background knowledge	etiquette	italics
bibliography	etymology	jargon
biographical sketch	exclamation mark	juxtaposition
biography	exclamatory sentence	knowledge base
body language	explicit/implicit	language convention
body of the text	exposition	layout
broadcast	extend invitation	lecture
broadcast advertising	extraneous information	line (in a play)
business letter	eye contact	literal phrase
camera angle	facilitator	log
camera shot	fact vs. opinion	logic
caption	familiar idiom	logical argument
catalog	familiar interaction	logo
CD-ROM	feature story	manner of speech
character trait	feedback	mass media
children's program	figurative language	mechanics (language)
chronology	figure of speech	media type
clarification	film director	metaphor
climax	flashback	meter
close-up	follow-up sentence	modifier
closing	footnote	multimedia presentation
clue	foreign word	musical
common feature	foreshadowing	narration
comparative adjective	formal language	native culture
compile	formal speech	native speaker
composition structure	format	news broadcast
compound sentence	fully developed character	news bulletin
compound verb	gender	nonverbal cue
conjunction	generalization	object pronoun
contract	glittering generality	objective view
convention	grammatical form	oral tradition
coordinating conjunction	Greek affix	pacing
criticism	Greek root	page format
cross-reference	high-frequency word	parallel episodes
current affairs	historical fiction	parallel structure
demonstrative pronoun	historical theme	paraphrase

peer-response group
periodical
personal narrative
personification
perspective
persuasion
phrase grouping
physical description
physical gesture
plagiarism
poetic element
polite form
political cartoonist
political speech
positive adjective
predicate adjective
present tense
private audience
problem-solution
producer
programming
projection
pronominal adjective
proper adjective
proverb
public audience
public opinion trend
publication date
pull-down menu
quiz show
*Reader's Guide to
Periodical
Literature*
recitation

recurring theme
reference source
relative pronoun
relevant detail
rephrasing
report
representation
research paper
resolution
resource material
restatement
rhythm
sales technique
salutation
saying
scriptwriter
self-correction
sentence combining
shades of meaning
simile
simple sentence
sitcom
skit
slang
slanted material
small talk
software
sound system
special interests
specialized language
speech pattern
speed reading
stereotype
stress

stylistic feature
subject pronoun
subjective view
subliminal message
subordinate character
subordinating conjunction
subplot
superlative adjective
supernatural tale
syllabic system
syntax
synthesize
tabloid newspaper
talk show
target audience
technical directions
technical language
tempo
tension (in a story)
textual clue
time lapse
transition
translate
trickster tale
verb phrase
verbal cue
vernacular dialect
viewer perception
viewpoint
visual aid
voice inflection
word borrowing
word origin
word play

General History, Grades 6-8

adaptation	communal life	evolution
agrarian society	communist country	exodus
agribusiness	Communist Party	extractive mining
agricultural economy	conflict resolution	fair employment practice
agricultural lifestyle	conservation movement	fascism
agricultural technology	conservatism	Federalist Party
anthropologist	contemporary democracy	feminism
antibiotics	convert	feminist movement
armed revolution	cosmos	final solution
astronomical discovery	court packing	financing
astronomy	crop rotation	flora
atomic bomb	cross-cultural contact	foreign capital investment
authoritarian rule	cultural exchange	foreign market
Batu	cultural heritage	fortification
Benin	cultural integration	founders
Bill Clinton	daily survival skill	framers
birth rate	dating methods	fraternal organization
black majority	death rate	French colonization
blind respect	debtor class	fundamental value
boundary dispute	demographic shift	gender role
bourgeoisie	depression	global communication
British rule	desegregation	global market
bronze casting	discrimination	gridiron pattern
brush painting	disease microorganism	group overlap
business practice	disenfranchisement	Haitian Revolution
capitalism	dissent	hierarchy
capitalist economy	divided loyalties	historical account
Catholic Christianity	domestic crop	historical fiction
Catholic Church	dowry	historical narrative
chance event	Dutch colonization	hoarding
charter document	economic power	Holocaust
chattel slavery	economy	hostility
checks and balances	Egyptian civilization	human intention
child labor	emigration	human nature
Chinese Revolution	employment opportunity	Iberia
Christian beliefs	English Common Law	immigration screening
civil disobedience	environmental change	imperial policy
civil service examination	epic	imperialism
civil service reform	epidemic disease	import
civilian	equal opportunity	individual status
civilian population	equal protection of the laws	industrialization
civilization	ethical belief	infant mortality rate
clergy	ethical systems	inheritance law
coerced labor	ethnic art	innate ability
cohesion	ethnic conflict	international market
collectivization	ethnic group	international relations
colonization	ethnic identity	interpretation
colony in Massachusetts	ethnic minority	intervention
commercialization	ethnic origin	Iraq

Islamic beliefs	national bank	public education
isolationism	national self-rule	public opinion
jazz	nativism	Puritanism
Jesus Christ	Nazi	racial minority
Jewish monotheism	Nazi-Soviet Non-	rapid industrialization
Jewish refugee	Aggression	rationing
Jewish resistance movement	pact of 1939	reform government
Korean War	neutrality	reform legislation
labor force	nobility	religious dissenter
labor union	nomadic people	removal policy
learned behavior pattern	North American mound-	ritual sacrifice
liberal democracy	building people	Roman occupation of
limitations on government	North American plains	Britain
linguistic diversity	society	Russian absolutism
literary narrative	nuclear politics	Russian Revolution of 1917
long-distance migration	obsidian	saint
Lost Generation	occupational specialization	scientific method
lynching	open range	secession
Magna Carta (1215)	open shop	secular ruler
mandate	organized labor	secular state
marine transportation	Paris Peace Accord of 1973	seed drill
marital status	participatory government	segregation
maritime rights	pathogen	semilunar calendar
maritime technology	patriarchal society	separatist movement
maritime trade route	peasantry	service industry
Marshall Plan	Peoples Republic of China	Sicily
mass consumer economy	Persian Gulf	significant event
matrilineal family	perspective	social agency
memento	philanthropist	social attitudes
middle-class culture	Philippine annexation	Social Darwinism
migrant worker	philosophical movement	social factor
militant religious movement	philosophy	social issue
military mobilization	political alliance	social status
military tactic	political border	Socialist Party
military unit	polygamous marriage	sovereign state
modern art	pooled resources	spoils system
monarchy	port city	standard of behavior
monastery	port of entry	standard of living
monasticism	Portugal	state bureaucracy
monsoon wind	Portuguese caravel	states' rights
moral reform	post-World War I	status
moral responsibility	post-World War II	steppe lands
moral values	Post Vincennes	stereotype
mortality rate	price war	stimuli
mosque	private property	stock breeding
mound builder	private white academy	stratification
multiple-tier time line	professional sector	strike
mural	protective tariff	strip mining
Muslim Empire	Protestant Christianity	subculture
nation-state	Protestant Reformation	superpower rivalry

tariffs
telecommunication
temperance
territorial expansion
terrorism
theater of conflict
third party
totalitarian regime
trade balance
trade union
trading triangle
transformation
transmission of beliefs
transmission of culture
tribal identity
urbanization
war crime
water rights
weaponry
welfare
white-collar sector
woman suffrage
Woodrow Wilson's
Fourteen Points
working-class culture
world history
world power
world war

U.S. History, Grades 6-8

1960 presidential campaign	election of 1800	NAACP
African-American Union	election of 1912	Navigation Acts
soldier	<i>Engel v. Vitale</i>	new freedom
American dream	English Bill of Rights	new nationalism
American foreign policy	(1689)	Normandy Invasion
American identity	Equal Rights Amendment	Northwest Ordinance of
American West	Fair Deal	1787
Anne Hutchinson	family assistance program	Oregon territory
antebellum period	farm labor	pardon of Richard Nixon
Anti-Federalist	featherbedding	party system
anti-immigrant attitude	federal Indian policy	Paxton Boys Massacre
antislavery ideology	federalism	Populism
Article III of the	Filipino insurrection	Populist Party
Constitution	First Amendment	Progressive era
Atlantic slave trade	First Congress	Progressive movement
Bacon's rebellion	First Lady	Reconstruction
Battle for Britain	flawed peace	amendments
Benjamin Franklin's	free exercise clause	Republican
autobiography	French and Indian War	Republican Party
big stick diplomacy	Garvey movement	return to domesticity
Calvin Coolidge	gentleman's agreement	Robert La Follette
Camp David Accords	Glorious Revolution	Roosevelt coalition
Charles Evans Hughes	Great Society	Rust Belt
Christian evangelical	Hiram Johnson	Scopes trial
movement	Huey Long	Seneca Falls Convention
Church of Jesus Christ of	impeachment	share the wealth
Latter-day Saints	Industrial Workers of the	shot heard round the world
closed shop	World	Soviet espionage
Compromise of 1850	Iranian hostage crisis	Sun Belt
Compromise of 1877	James Buchanan	Tenure of Office Act
Congress	James Madison	thirteen virtues
Congressional authority	Jay's Treaty	Townsend Plan
Continental Congress	John Marshall	Transcendentalism
Dawes Severalty Act of	Joseph McCarthy	trans-Mississippi region
1887	Judiciary Act of 1789	Truman Doctrine
Declaration of Sentiments	Kennedy assassination	U.S. Supreme Court
Democrat	Ku Klux Klan	universal white male
Democratic-Republican	Lewis and Clark expedition	suffrage
Party	Little Rock 1957	Virginia
dollar diplomacy	Loyalist	Warren G. Harding
domestic policy	Malcolm X	Whig Party
domestic program	<i>Marbury v. Madison</i> (1803)	Works Progress
Dr. Francis Townsend	Massachusetts	Administration
Dred Scott decision	McCarthyism	WPA project
Dwight D. Eisenhower	midnight judge	
Eisenhower Doctrine	modern republicanism	

World History, Grades 6-8

Abbasid Empire	Christian soldier	European imperialism
Abd al Quadir	classical civilization	European monarchy
African resistance movement	Cleisthenes	European resistance movement
Agustin de Iturbide	Clothilde	fascist aggression
Akbar	Clovis	facist regime
Albert Einstein	colonial Africa	Father Miguel Hidalgo
alchemy	commercial agriculture	feudal lord
Alfred Krupp	Communist party in China	feudalism
Algeria	Conference of Versailles	Francis Bacon
Alps	Congress of Vienna	Frankish Empire
American Indian nation	constitutional monarchy	Gangetic states
Ammianus Marcellinus	Coptic Christians	Gangzhou (Canton)
Anasazi	courtly ideals	Ghana
Anatolia	courtly love	Glorious Revolution of 1688
Andean region	creation myths of Babylon	Gothic cathedral
apartheid	creation myths of China	Great Leap Forward
Arab Muslim	creation myths of Egypt	Great Plague
arranged marriage	creation myths of Greece	Great Powers in Europe
Aryan culture	creation myths of Sumer	Great Reform Bill 1832
Ashanti	Creole	Greco-Roman antiquity
Asian art form	Creole-dominated revolt of 1821	Greece
Assyria	Crete	Greek art
Assyrian Empire	Crimean War	Greek Christian civilization
Axis country	Crusades	Greek drama
Babylonian Empire	Cultural Revolution	Greek rationalism
Baltic region	Dahomey	Greenland
Bantu	Dai Vet	Grimke sisters
Barbados	Daoism/Taoism	griot "keeper of tales"
Berlin	Darius I	Haiti
Bismarck's "Blood and Iron" speech	Darius the Great	Heian
Buddhist beliefs	democratic despotism	Hellenistic period
Cape Region	division of Germany and Berlin	Helsinki Accords
Carolingian Empire	division of the subcontinent	herding societies
Catherine the Great	Dorothea Lange	Hermit Kingdom
Catholic Reformation	Dutch Republic	high culture entertainment
Cecil Rhodes	dynastic politics	High Middle Ages
Central Europe	Early Middle Ages	High Renaissance
Ceylon	East India Company	Hittite people
Champa	East Indies	Holland
Chandogya	Eastern Mediterranean	Homo erectus
Chandragupta	Elizabeth I	Homo sapiens
Charles Darwin	Ellora	Ibn Battuta
China's 1911 Republican Revolution	Emmeline Pankhurst	Ice Age
Chinese Revolution of 1911	empire-builder	imperial absolutism
Christian Europe	Epic of Gilgamesh	Indian culture
Christian religious art	Estates-General	Indo-Aryan people
	Ethiopia	Indo-European language

Indo-Gangetic plain	Middle Kingdom	Robert Owen's New Lanark System
Indonesian archipelago	Minoan Crete	Roman Catholic Church
Inner Asia	Mohandas Gandhi	Romanticism
Isfahan	Mohandas Gandhi's call for nonviolent dissent	Rosa Luxemburg
Italian Renaissance	Monarch Mansa Musa	royal court
James Maxwell	Mongol conquest of 1206	Rule of St. Benedict
Janissary Corps	Moroccan resistance movement	Samarkand
Japanese modernization	Napoleon's invasions	Samori Ture
Jean Jaures	Neolithic agricultural society	Sassanid Empire
Jose Clemente Orozco	neutral nation	Saudi Arabia
Kalash church	Newfoundland	Saxon peoples
Kamakura period	Niger River	Scythian society
Karl Marx	nirvana	second industrial revolution
karma	North Atlantic Treaty Organization	seizure of Constantinople
Kathe Kollwitz	Oaxaca	Selim III
khans	Old Kingdom	Shiba Kokan
Khoisan group	Old Regime France	Shinto
kingdom of Aksum	Opium War	Svetaketu
kinship group	oracle bone inscription	Siam
Kongo	Orosius	Sigmund Freud
Korean culture	paleolithic cave painting	Solon
kulak	Panchatantra	Sotabu screen
Kuomintang	papacy	South Asia
Lalibela church	pastoral nomadic people	Soviet bloc
lateen sails	Persia	Soviet domination
Lenin's New Economic Policy	Persian Empire	Soviet invasion of Afghanistan
Leo Africanus	Peter Stolypin	Spanish Muslim society
Lucretia Mott	Peter the Great	squire
Lunda	Pizarro	St. Petersburg, "window on the west"
Macedonia	Poland	Stalin's purge
Machu Picchu	polis	Stanley Baldwin
Mahdist state	Polynesia	story of Olaudah Equiano (Gustavus Vassa)
Mahmud II	post-Mao China	Sudan
Malayo-Polynesia	Priscus	the Gracchi
Manchu Empire	Punic Wars	three piece iron
Manchu	Queen Hatshepsut	Thuttnose III
Mandate of Heaven	Quin Empire	Tiananmen Square Protest
manorialism	Ramsay MacDonald	Timur the Lame (Tamerlane)
Mao Zedong	Ramses II	Tippu Tip
Mao's program	Raymond Poincare	Toltecs
Maroon society	Reagan-Gorbachev summit diplomacy	Torah
Mauryan-Buddhist power	reconquest of Spain	Toussaint L'Ouverture
medieval Christian society	reincarnation	trench warfare
medieval theology	Renaissance humanism	trial of Galileo
megalithic stone building	Rene Descartes	Trojan war
megalopolis		
Menelik II		
Meroitic period		
Middle Ages		

Turkic migration
Turkestan
unification of Germany
unification of Italy
United States foreign policy
Upanishad
U.S. isolationist policy
Vedas
Vedis gods
warrior culture
Warsaw Pact
West Asia
Western and Eastern
European Societies
Western art and literature
Western culture
White Sea
Xiongnu society
Zagwe Dynasty
Zanzibar
Zhou Dynasty
Zhu Xi

Geography, Grades 6-8

acid rain	diesel machinery	Indians
adaptation	dispersion	Indonesia
Algeria	division (of Earth's surface)	industrial center
alphanumeric system	downstream	industrial district
alternative energy source	drainage basin	infant mortality rate
Amsterdam	dry-land farming .technique	infrastructure
architectural style of	earth-moving machinery	interdependence
buildings	earthquake-resistant	internal structure
arid climate	construction	Inuit
assimilation	earthquake zone	involuntary migration
Australia	economic alliance	Iraq invasion of Kuwait
average family size	ecosystem	(1991) Irish immigrant
axis	electric car	isthmus
barrier island	energy-poor region	Italy
Belgium	energy industry	Jamaican sugar
bicycle lane	energy source	Japanese occupation of
biome	equilibrium	Manchuria (1930s)
biosphere	Ethiopia	Khyber Pass
Boston	ethnic composition	land-locked
boundary dispute	evacuation route	land-use data
Brenner Pass	Everglades	land-use pattern
building style	export	language region
Burma Pass	fall line of the Appalachians	leeward
Canberra	fauna	levee
Capitol Hill	feeding level	life form
central place	flat-map projection	linkage
cheap labor	flood-control project	literacy rate
Chile	floodplain	lithosphere
China	flora	Little Italy
Chinatown	fungi	local scale
Chinese textile	Gateway Arch-St. Louis	major parallel
clearing of forest	geographic factor	marine climate
climate region	global impact	marine vegetation
Congo	global warming	meridian
conservationist	Golden Gate Bridge-San	Mesopotamia
contemporary system of	Francisco	midaltitude
communication	Great American Desert	migrant population
Cumberland Gap	grid	military campaign
data set	hemisphere	military installation
database	historic preservation	mobility
decentralization	Hong Kong	Moslems
Delaware River	housing development	multiculturalism
demographic change	Huang Ho	nationalism
demographic information	human process	natural resource
density	hurricane	natural vegetation
density of population	hurricane shelter	natural wetlands
developed country	hurricane tracks	Netherlands
developing country	hydroelectric power	New Delhi
diamond trade	imported resource	Nile Valley

nitrogen cycle	raw material	steel-tipped plow
nonrenewable resource	recession	strait
nuclear-waste storage	reforestation	strip mining
ocean circulation	region of contact	suburbanization
ocean pollution	regional boundary	Sunbelt
Ogallala Aquifer	regrowth	system
old-growth forest	religious facility	Tacoma Strait
Opera House-Sydney, Australia	renewable resource	tariff
origin	residential pattern	technological hazard
overfishing	resource management	telephone area code
overpopulation	ridge-and-valley pattern	temperature fluctuation
Pakistan	Riviera	terrace
paper factory	runoff	terraced rice fields
pedestrian walkway	rust belt	The Hague
pesticide	satellite-based	thematic map
petroleum	communications system	topography
Philippine archipelago	Saudi Arabia	Tower Bridge-London
Philippines	savanna	trade advantage
physical environment	school district	transportation hub
physical geography	sea wall	Trenton
physical variation	seasonal pattern of life	triangular trade route
plant species	semiarid area	Tropic of Cancer
political region	settlement pattern	Tropic of Capricorn
political unit	shifting civilization	tropical rain forest
population concentration	Siberia	truck-farming community
population density	Sikhs	tsunami
population distribution	Singapore	tundra
population growth rate	single-industry city	Twin Peaks
population region	soil erosion	urban commuting
population structure	soil fertility	use of explosives
postal zone	solar power	Vietnamese
prevailing wind	South Africa	voluntary migration
prime meridian (Greenwich meridian)	Soviet Union	Washington
principal line	spatial	water spring
principal meridians	spatial arrangement	water supply
production site	spatial perception	watershed
public housing	spatial scale	work animal
public transit	spread of bubonic plague	World Court
	spread of disease	Yucatan Peninsula
	standard of living	

Civics, Grades 6-8

AFL-CIO	Environmental Protection Act	institution (political)
Aid to Families with Dependent Children	environmental protection movement	interest group
allegiance	equal justice for all	international law
ambassador	equal protection of the law	International Red Cross
American citizenship	equal rights under the law	interstate commerce
American Revolution	equity	interstate highways
American tribal government	ethical dilemma	judicial branch
armed forces service	ethnic diversity	judicial power
arms control	ex post facto	just compensation
bias	executive power	juvenile
binding agreement	fair notice of a hearing	labor movement
cabinet	fair trial	landmark decision
capital punishment	federal court	Latin America
central government	federal income tax	League of Women Voters
charitable group	First Amendment	legal recourse
citizenship by birth	foreign aid	legislative branch
civil rights	foreign policy	legislative power
civil rights movement	foreign relations	legislature
civilian control of the military	form a more perfect union	letter to the editor
coining money	Founders	licensing
colonial charters	Framers	limited government
commander in chief	freedom of assembly	local election
Common Cause	freedom of association	lower court
Confederate States of America	freedom of conscience	loyal opposition
conflict management	freedom of petition	majority rule
constitutional law	freedom of press	<i>Marbury v. Madison</i>
corrective justice	freedom of residence	Martin Luther King Jr.'s "I Have A Dream"
covert action	freedom to emigrate	Mayflower Compact
criminal law	freedom to marry whom one chooses	Medicaid
curfew	freedom to travel freely	Medicare
customs search	French Revolution	minimum wage
death penalty	fundamental principles of American democracy	minority rights
debate	gender diversity	NAACP
delegated powers	general election	national defense
demographics	Gettysburg Address	nation-state
demonstration	Greenpeace	NATO
domestic policy	gun control	naturalization
dress code	habeas corpus	Nineteenth Amendment
due process	hate speech	nomination
economic aid	immigration	OAS
economic incentive	impeachment	Parliament
economic sanctions	income tax	parliamentary system
economic security	indentured servitude	People's Republic of China
English Parliament	informed citizenry	picket
enumerated powers		political life
		political appointment
		popular sovereignty
		prayer in public school

preamble	right to equal protection of the law	state sales tax
Preamble to the Constitution	right to establish a business	state sovereignty
president's cabinet	right to hold public office	states' rights
presumption of innocence	right to join a labor union	suffrage
prime minister	right to join a professional association	suffrage movement
principle	right to know	Supreme Being
private life	right to patent	tariff
private property	right to privacy	tax revenue
property tax	right to property	terrorism
protest	Roman Republic	<i>The Federalist Papers</i>
public agenda	rule of men	the press
public life	Senate	totalitarian system
public opinion poll	separation of church and state	treason
public trial	separation of powers	trial by jury
Pure Food and Drug Act	shared power	union
recall election	Sixteenth Amendment	United Nations
representative democracy	slander	United Nations Charter
representative government	Social Security	Universal Declaration of Human Rights
revenue	sovereign state	<i>U.S. v. Nixon</i>
right of appeal	sovereignty	veto power
right to acquire/dispose of property	speedy trial	Virgin Islands
right to copyright	state constitution	vote of no confidence
right to counsel	state court	voter registration
right to enter into a lawful contract	state election	World Council of Churches
		World Court

Economics, Grades 6-8

average price level	inflation rate	rent control
carrying money	interest	risk reduction
central authority	intermediary	sales tax
checking account	labor force	savings account
command economic system	labor market	self-employment
commercial bank	labor union	self-sufficiency
contract labor	large firm	shared consumption
cost of production	law of supply and demand	side effect
credit policy	market clearing price	special interest group
decentralization	market economy	specialized economic institution
disincentive	market exchange	standard currency
earned income	national defense spending	standard of living
economic incentive	national economy	storing money
economic indicator	negative incentive	substitute product
economic specialization	nonprofit organization	supplier
equilibrium	non-rival product	surcharge
exchange rate	opportunity benefit	system of weights and measures
export	opportunity cost	tax deduction
exporting firm	output per hour	tax exemption
finance	output per machine	tax reduction
foreign exchange market	output per unit of land	total benefit
foreign trade	output per worker	total cost
free trade	part-time employment	total market value
fringe benefit	positive incentive	unemployment
full-time employment	private market	unemployment rate
funding	production	wage rate
Gross Domestic Product	productivity	work rule
human capital	property rights	
human resource	public project	
import	quota	
inflation	relative price	

Health, Grades 6-8

abdominal thrust maneuver	diabetes	malnutrition
adolescence	Diabetes Association	maturation
adolescent independence	discrimination	mental health clinic
alcohol abuse	domestic violence	mental health
American Heart Association	drug-seeking behavior	neglect
American Lung Association	drug dependency	negotiation skill
anemia	drunk and drugged driving	other-directed violence
anorexia	eating disorder	personal health assessment
asthma	emergency plan	personal hygiene
bacteria	emotional abuse	plaque
body system	emphysema	pollutant
bulimia	family history	prejudice
cancer	food additive	prevention
cardiopulmonary	food refrigeration	risk factor
resuscitation	food storage	safe driving
chronic disease	handicapping condition	safety hazard
community agency	health-care provider	self-directed violence
community health	health fad	self-esteem
conception	health risk	self-examination
conflict resolution	heart disease	short-term consequence
counseling	Heimlich maneuver	solid-waste contamination
CPR	hygiene	storage temperature
cultural belief	immunization	tolerance for frustration
denial	injury-prevention strategy	tolerance level
dental health	long-term consequence	weight maintenance
depression	lung cancer	

Physical Education, Grades 6-8

advanced movement skill weight control
aerobic weight training
aerobic capacity
anaerobic
calisthenics
cardiorespiratory endurance
cardiorespiratory exertion
dual sport
emotional health
exclusionary behavior
eye-hand coordination.
fat body mass
feedback
fitness goal
freestyle swimming
frequency of training
game plan
handicapped athlete
health benefit
heart-rate recovery
heart-rate reserve
inclusive behavior
intramural sport
irregular heart rate
isometric exercise
lean body mass
leisure activity
manual dexterity
mental health
mental imagery
movement concept
muscle cramp
overtraining
overuse injury
psychological benefit
physiological benefit
range of motion
relaxation techniques
resistance training
resting heart rate
self-image
self-talk
spatial awareness
spike the ball
stress reduction
target heart rate
threshold
visualization
volleyball

Arts General, Grades 6-8

AB form

ABA form

aesthetic criteria

aesthetics

art medium

artistic choice

audience response

aural element

body alignment

breath control

costuming

cultural context

emotional response

ensemble

expression

function of art

historical context

historical influence

historical period

kinetic element

performing arts

presentation

rehearsal

repertoire

scene

tension

texture

traditional art forms

transition

variation

Dance, Grades 6-8

abstracted gesture
agility
angle
articulation of movement
ballet
call and response
canon
chance reordering
classical dance
collapse
combination of movements
complementary shapes
contrasting shapes
coordination
dab
diagonal
directionality
elevation
float
glide
initiation of movement
injury-prevention strategy
jazz dance
level in relation to floor
movement quality
movement sequence
narrative
pantomime
punch
recovery
reordering
restructure
round
social dance
spatial pattern
square dance
sustain
swing
tap dance
theatrical dance
vibratory
warm-up technique

Music, Grades 6-8

a capella	level-2 difficulty	pop
articulation	level-3 difficulty	presto
barbershop quartet	level-4 difficulty	quartet
bass clef	level-5 difficulty	range
blues	madrigal	recorder-type instruments
bow control	mallet instruments	refrain
chorded zithers	marcato	release
chorus	melodic embellishment	rhythmic ostinato
classical	melodic instrument	sight read
coda	melodic line	sonata
composition	melodic ostinato	stick control
crescendo	melodic phrase	suite
dynamic change	meter	sympathy
dynamic level	meter change	symphonic
harmonic accompaniment	meter signature	syncopation
harmonic instrument	music in four parts	timbre
hymn	music in two and three parts	tonality
instrumental literature	oboe	traditional sound source
interval	opera	trio
intonation	phrasing	triple meter
jazz	pitch notation	wind instrument
jingle	playing by ear	
level-1 difficulty	playing position	

Theater, Grades 6-8

archetype

atmosphere

avocation

character motivation

characterization

classical

constructed meaning

direction

director

dramatic media

dramatization

electronic media

empathy

formal production

informal production

locale

new art forms

nonlocomotor movement

oral element

physical environment

pitch

playwright

production value

publicity

script

sensory recall

set design

staging

study guide

superhero

suspense

theater literacy

trickster

visual element

vocal pitch

Visual Arts, Grades 6-8

art elements

art history

brayers

contemporary meaning

definition

design element

easel

expressive features

form

hue

intensity

kiln

laser

lathe

line

motion

placement

press

space

spatial characteristic

temporal structure

texture

value

visual concept

Technology, Grades 6-8

automated machine	feedback	output
bulletin board system	file management	output device
capacity	format	programming command
CD-ROM	formatting	programming language
central processing unit	function	record management
computer fraud	human-operated machine	search techniques
computer hacking	icon	sort techniques
copyright violation	input device	special purpose program
data access	Internet Service Provider	specialized machine
data display	Intranet	spreadsheet
data processing	invasion of. privacy	steps in the design process
data update	local network system	system failure
decoder	malfunction	tape drive
designed object	man-made object	text format
desktop publishing software	misconnected	touch screen
digitized	mismatched	URL
disassembly	navigation (Internet)	virus setting
document formatting	network	voice recorder
e-learning	nonphysical object	

Vocabulary and Concepts for Grades 9-12

Building Background Knowledge for Academic Achievement (2005)

Research on What Works in Schools

Robert J. Marzano

Robert J. Marzano created an appendix in his book, *Building Background Knowledge for Academic Achievement* for the purpose of supporting teaching, learning, and preparing students for the world outside public education. In the appendix, he acknowledges multiple sources and states, “In this section, 7,923 vocabulary terms are listed for 11 subject areas.” He goes on to say that the terms are divided into four general grade groupings:

Level 1: Grades K-2,

Level 2: Grades 3-5,

Level 3: Grades 6-8, and

Level 4: Grades 9-12.

Marzano credits twenty-eight national standards documents that served as the sources for the terms, and reminds the reader that these terms are not a definitive listing but a place to start. He advocates “districts and schools to adapt and supplement the lists in any way they see fit, depending on how a given subject area is taught.”

Instructional leaders in New Mexico should note some terms are misplaced according to the current New Mexico Standards with Benchmarks for a given grade level. It is important to note that these terms provide the starting point for improving teaching and learning and should be reviewed and adapted to individual classrooms, schools, and districts.

Mathematics, Grades 9-12

absolute error
absolute function
absolute value
acceleration
add radical expressions
addition counting procedure
algebraic function
angle of depression
arc
area under curve
asymptote of function
base e
binary system
bivariate data
bivariate data transformation
bivariate distribution
Cartesian coordinates
categorical data
central angle
central limit theorem
chord
circle without center
circular function
classes of functions
combination
complex number
compound event
compound interest
conditional probability
confidence interval
conjugate complex number
continuity
continuous probability distribution
control group
correlation
cosine
critical paths method
curve fitting
curve fitting median method
decibel
density
dependent events
derivation
dilation of object in a plane
direct function
direct measure
discrete probability
discrete probability distribution
divide radical expressions
domain of function
empirical verification
equivalent forms of equations
equivalent forms of inequalities
expected value
experimental design
experimental probability
exponent
exponential function
factorial
factorial notation
Fibonacci sequence
finite graph
force
formal mathematical induction
fraction inversion
function composition
function notation
geometric function
global/local behavior
imaginary number
independent events
independent trials
indirect measure
inflection
interest
inverse function
irrational number
isometry
law of large numbers
law of probability
limit
line equation
line segment
line segment congruence
line segment similarity
line through point not on a line
linear
log function
logarithm
logarithmic function
mathematical theories
matrix
matrix addition
matrix division
matrix equation
matrix inversion
matrix multiplication
matrix subtraction
minimum/maximum of function
monitor progress of a problem
monomial
Monte Carlo simulation
multiple radical expressions
natural log
natural number
nature of deduction
negative exponent
normal curve
number subsystems
parallel box plot
parameter
parameter estimate
parametric equation
periodic function
permutation
phase shift
pi
point of tangency
polar coordinates
polynomial
polynomial addition
polynomial division
polynomial function
polynomial multiplication
polynomial solution by bisection
polynomial solution by sign change
polynomial solution successive approximation
polynomial subtraction
population
postulate
powers
precision of estimation
probability distribution
proof paragraph
protractor

Pythagorean theorem	rotation in plane	synthetic geometry
quartile deviation	sample statistic	systems of inequalities
radical expression	sampling distribution	tangent
radical function	scalar	term
radius	series	theorem
random sampling technique	series circuit	theorem direct proof
range of function	sigma notation	theorem indirect proof
rational function	similar figures	transversal
real numbers	sine	treatment group
real-world function	sinusoidal function	trigonometric ratio
reciprocal	smallest set of rules	trigonometric relation
recurrence equation	speed	truth table proof
recurrence relationship	spurious correlation	two-way tables
recursive equation	standard deviation	U.S. customary system
reflection in plane	statistical experiment	unit analysis
reflection in space	statistical regression	univariate data
regression coefficient	statistic	univariate distribution
regression line	step function	upper/lower bounds
relative error	strategy efficiency	validity
representativeness of sample	strategy generation	variance
Richter scale	technique	vector
right triangle geometry	subtract radical expressions	vector addition
roots & real numbers	successive approximations	vector division
roots to determine cost	summary statistic	vector multiplication
roots to determine profit	surface area cone	vector subtraction
roots to determine revenue	surface area cylinder	velocity
	surface area sphere	vertex edge graph

Science, Grades 9-12

abiotic components of ecosystems	cellular waste disposal	electromagnetic field
accelerator	charged object	electromagnetic force
acid/base reactions	Charles Darwin	electromagnetic radiation
actual mass	Charles Lyell	electromagnetic spectrum
advection	chemical bond	electromagnetic wave
age of the universe	chemical organization of organisms	electron
Albert Einstein	chemical properties of elements	electron configuration
Alfred Wegener	chemical reaction rate	electron sharing
amino acid sequence	chloroplast	electron transfer
anatomical characteristic	chromatography	elementary particle
Antoine Lavoisier	chromosome	elements of matter
atmospheric change	chromosome pair	elimination of matter & energy
atomic bomb	composition of the universe	elliptical orbits
atomic bonding principles	convection	embryo formation
atomic configuration	convection current	empirical standards
atomic energy	Copernican revolution	endothermic reaction
atomic mass	Copernicus	energy requirements of living systems
atomic motion	Coulomb's law	Enrico Fermi
atomic nucleus	criteria for acceptance	entropy
atomic number	crystalline solid	enzyme
atomic reaction	cytoplasm	equal & opposite force
atomic theory	data reduction	equilibrium of ecosystems
atomic weight	decay rate	Ernest Rutherford
Avogadro's hypothesis	degree of kinship	evidence for the Big Bang
Bernoulli's principle	derived characteristic	Theory
Big Bang theory	disclosure of methods & procedures	evidence for the expansion of the universe
biochemical characteristic	DNA	evidence for the unity among organisms
biological adaptation	DNA molecule	excitatory molecule
biological evolution	DNA replication	exothermic reaction
biological molecule	DNA sequence	experimental method
breakdown of food molecules	DNA structure	$F=ma$
buoyancy	DNA subunit	Fahrenheit
carbon	dominant trait	filial generation
carbon atom	Doppler effect	flow of energy
carbon cycle	drag	flow of matter
carbon dioxide	Earth's elements	fluid resistance
catalyst	Earth's external energy sources	foot pound
cell function	Earth's formation	formation of polymers
cell membrane	Earth's internal energy sources	fossil fuels
cell nucleus	elasticity	gamma ray
cell organelle	electric force	gene encoding
cell wall	electric motor	gene expression
cellular communication	electric potential	general theory of relativity
cellular differentiation	electrically neutral	genetic diversity
cellular energy conversion		genetic mutation
cellular regulation		
cellular response		

genetic variation	Newtonian mechanics	relative motion
geochemical cycle	nitrogen	release of energy
geologic time	nitrogen cycle	reproductive capacity
geologic time scale	nuclear fission	reproductive value of traits
geological dating	nuclear force	revision of scientific theories
Gregor Mendel	nuclear fusion	rock sequence
germ theory	nuclear mass	rules of evidence
Golgi apparatus	nuclear stability	sea floor spreading
gravitational energy	nucleated cell	segregation
greenhouse gas	ocean layers	seismic wave
Halley's comet	ohm	selective gene expression
harvesting of resources	organic compound synthesis	semiconductor
history of the universe	organic matter	sex cell
human genetics	origin of life	sex chromosomes
human modification of ecosystems	origin of the universe	sex-linked trait
hydrogen bomb	oxidation-reduction reactions	shared characteristic
hydrogen ion	ozone	sound wave
inertial frame of reference	paradigm shift	space probe
inhibitory molecule	parental generation	special theory of relativity
inverse square law	particle emission	speciation
ion	periodic table of the elements	speed of light
ionic motion	photosynthesizing organism	spontaneous nuclear reaction
isotope	phylogenetics	star composition
Johannes Kepler	plate boundary	star destruction
John Dalton	plate collision	star formation
Kelvin (temperature)	plate tectonics	star size
Lise Meitner	potential energy	star system
mass to energy conversion	pressure	star temperature
meiosis	properties of reactants	star types
Mendelian genetics	properties of waves	stellar energy
metallic surface	protein	storage of genetic information
method of investigation	protein structure	Sun's radiation
microwave	protein synthesis	superconductor
mitochondrion	proton	survival value of traits
mitosis	Ptolemy	synthetic polymer
molar volume	quantum of energy	thermal equilibrium
mole	radical reaction	torque
molecular energy	radio wave	transforming matter and/or energy
molecular synthesis	radioactive dating	transport of cell materials
molten rock	radioactive decay	transporting matter and/or energy
mountain building	radioactive isotope	ultraviolet radiation
moving electrical charge	rate of nuclear decay	unequal heating of air
moving magnet	recessive trait	unequal heating of land masses
natural selection	recombination of chemical elements	unequal heating of oceans
net force	recombination of genetic material	
neuron	relative mass	
neurotransmitter		
neutron		
new gene combinations		

vacuole
viscosity
water wave

wave amplitude
wave packet
wave source

weight of subatomic
particles
x-ray

English Language Arts, Grades 9-12

acronym	commercialization	exaggerated claim
advertising code	compound adjective	excerpt
advertising copy	compound noun	expressive writing
aesthetic purpose	compound personal pronoun	extended quotation
aesthetic quality	compound-complex sentence	external/internal conflict
allegory	computer-generated image	false causality
alliteration	concept	faulty mode of persuasion
allusion	conceptual map	FCC regulation
ambience	conjunctive adverb	feature article
ambiguity	connotative meaning	fictional narrative
American literature	consonance	field study
American Psychological Association	consumer document	film review
analogy	context	filter (in photography)
ancient literature	contrasting expressions	friendly audience
anecdotal scripting	controlling idea	future perfect verb tense
anecdote	copyright law	hierarchic structure
annotated bibliography	correlative conjunction	Homeric Greek literature
appeal to authority	counter argument	hostile audience
appeal to emotion	couplet	hyperbole
appeal to logic	credibility	idiom
archetype	credit	incongruity
articulation	criteria	indefinite adjective
artifact	critical standard	indefinite pronoun
assonance	cultural agency	inflection
attack ad hominem	cultural expression	interior monologue
author's bias	cultural influence	internal conflict
autobiographical narrative	cultural nuance	interrogative pronoun
ballad	cultural theme	irony
bandwagon	cutline	job application
belief system	dash	job interview
bias	debate	Latin affix
Bible	deconstruct	Latin root
biographical narrative	delivery	leave-taking
blurring of genres	denotative meaning	limited point of view
bolding	dictation	literary criticism
British literature	diction	literary device
bylaw	digressive time	literature review
celebrity endorsement	direct address	logical fallacy
censorship	directionality	logographic system
characterization	divided quotation	lyric poem
cinematographer	drama-documentary	marketing
circumlocution	dramatic dialogue	media-generated image
clarity of purpose	dramatic mood change	medieval literature
clincher sentence	emotional appeal	medium
cognate	emphasis	memorandum
coherence	epic	methodology
cohesion	ethics	microfiche
collective noun		Modem Language Association

modern literature	satire
modulation	secondary source
mythology	semicolon
narrator	set design
negotiate	soap opera
neoclassic literature	sociocultural context
norm	soliloquy
noun clause	somber lighting
noun phrase	speech action
nuance	speed writing
ode	standard English
omniscient point of view	status indicator
onomatopoeia	stream of consciousness
opening monologue	structural analysis
overgeneralization	style sheet format
overstatement	subvocalize
overview	telephone information
packaging	service
parable	temporal change
parody	text boundary
past perfect verb tense	text feature
pastoral	text structure
performance review	thesis
persona	thesis statement
personal space	transparency
philosophical assumption	truth in advertising
poise	understatement
policy statement	universal theme
present perfect verb tense	visual text
primary source	warranty
production cost	word processing
progressive verb form	word reference
propaganda	
proposition of fact speech	
proposition of policy speech	
proposition of problem	
speech	
proposition of value speech	
questionnaire	
reaction shot	
readability	
red herring	
redraft	
reflexive pronoun	
repeats	
resume	
rhetorical device	
rhetorical question	
romantic period literature	
sarcasm	

General History, Grades 9-12

abortion	consumer's rights	expansionist foreign policy
absolutism	consumer culture	Federalist
adaptation	containment policy	food plant domestication
affluence	contemporary life	fraud
African American	continuity	free enterprise
community	conventional warfare	free labor system
amnesty	corporation	free trade
animal domestication	Covenant of the League of	freedom of the press
anticommunist movement	Nations	fundamentalism
anti-Semitism	creditor	generational conflict
aristocratic power	critical text analysis	genetically determined
arms embargo	cultural continuity	behavior
arms limitations	cultural identity	genocide
artisan	cultural preservation	geopolitics
assimilation	defense policy	global economy
atomic diplomacy	defense spending	global trade
autonomous power	demobilization	globalizing trend
bank recharter	democratization	government subsidy
barbarian	demographics	gradation
bilingual education	depression of 1873-1879	group identity
biological evidence	depression of 1893-1897	guerilla warfare
bipolar centers of power	detente	hearsay
black market	diffusion	hereditary social system
border conflict	disease pandemic	heredity
breakup of Soviet Union	distribution of powers	historical context
British colony	due process	historical continuity
British imperialism	duke	humanism
British monarch	Dutch merchant class	ideological conflict
capitalist country	Dutch West Indies	ideology
cartography	economy	imperial presidency
casualty rate	economic dependency	inalienable right to freedom
Catholic clergy	economic disparity	income gap
centralized monarchy	economic reforms	individualism
chemical warfare	educational reform	industrial parity
Chinese Communist Party	enemies of the state	inflammatory
Christian denomination	energy crisis	inflation
church-state relations	English Parliament	instinctive behavior
city planning	entrepreneur	integration
civic center	entrepreneurial spirit	intellectual life
class conflict	environmental degradation	internal trade
class relations	environmentalism	international economy
colonial rule	ethical dilemma	investigative technique
commodity price	ethnicity	investment
common refuse	evangelical argument	iron metallurgy
compulsory education	evangelical movement	Islamic state
conscription	exchange of fauna	Islamization
constitutional ideal	exchange of flora	Jewish scapegoating
constitutionalism	expansionism	jihad

labor relations	Philippines	South Africa
legal code	Pop Art	sovereignty
liberalism	postindustrial society	sphere of influence
liberation theology	primate	stagnation of wages
male-dominated job	prior experience	staple crop production
market revolution	privatization	state constitution
martyr	profit motive	status quo
materialism	profiteering	subsistence method
mercantilism	propaganda	suburbanization
mercenary	propaganda campaign	supply-side economics
Mexican Revolution	property rights	system of alliances
militarism	Protestant clergy	traditional cultural identity
military-industrial complex	province	UN resolution
military preparedness	psyche	United States intervention
millennialism	public policy	universal language
mining economy	quadrant	urban bourgeoisie
mobilization	racial role	U.S. domestic energy policy
moderate thinking	radicalism	U.S. foreign policy
monetary policy	rationalism	U.S. Smoot-Hawley Tariff
monotheism	reactionary thinking	U.S.S.R
mulatto	Realism	Utopian community
multiculturalism	realpolitik	volunteerism
multilateral aid organization	recession	wartime diplomacy
multinational corporation	recurrent pandemic	wartime inflation
Muslim country	Red Russian	welfare state
nation building	Red Scare	Western values
national autonomy	redistribution of wealth	women in the clergy
national debt	refugee population	workforce
national identity	religious evangelism	world geopolitics
national market	reparation payment	writ of habeas corpus
national security	repertoire	
national socialism	representative government	
nationalism	republicanism	
Native American origin	resettlement	
story	retaliation	
native population	reunification	
natural history	rights of the disabled	
neocolonialism	rigid class	
new scientific rationalism	Russian Chronicle	
noble savage	Russian Revolution of 1905	
nonunion worker	sanctioned country	
nullification	scientific racism	
oil crisis of 1970s	second front	
one man one vote	sectionalism	
opposition group	secular ideology	
oppression	sedentary agriculture	
outward migration	self-determination	
Parliament	social democratization	
parliamentary government	socialism	
periodize	socioeconomic group	

World History, Grades 9-12

1994 Cairo Conference on World Population	Britain's modernizing policy in India	Diego Rivera
Abdul-Mejid	British West Indies	Diem regime
aboriginal population	Brooke	Dreyfus affair
absolutist state	Bruges	early modern society
Abstract Expressionism	Buddhist-Hindu culture	Emperor Aurangzeb
Adam Smith	Buddhist monk	Ems telegram
Aegean region	Buganda	enclosure movement
African nationalist movement	Byzantine church	encomienda system
African village life	Cambodia	Enlightened Despot
Akbar Islam	Caspian Sea	Enuma Elish
Akhenaton (Amenhotep IV)	cassava	Erich Remarque
al-Afghani	Caucasus	Ernest Hemingway
Alexander	caudillo	Ethiopian art
Alexander of Macedon	Cavalier	Ethiopian rock churches
alphabetic writing	Cavour	Eurasian empire
Amsterdam	Charter Oath of 1868	European country
Angkor Wat	Chartist movement	European Jew
Anglo-Saxon Boniface	Chile	European manorial system
Arab Caliphate	Chimu society	Existentialism
Arab League	China's population growth	Expressionism
Arabia	China's revolutionary movement	expulsion of Jews and Muslims from Spain
Arabic	Chinese workers	foot binding
Argentina	Chinese writing system	forced collectivization
Aristotle	Christian missionary	Franco-Prussian War
art of courtly love	Christian monotheism	French Estates-General
Ataturk	city-state	French salon
Athens	Code Napoleon	French West Indies
atonism	code of Hammurabi	Freud's psychoanalytic method
Austria	Conference at San Remo	Geneva Accords
Austro-Hungarian Empire	Constantinople	Genoa
Babylon	cremation of Strasbourg	gentry elite
Balfour Declaration	Jews	George Orwell
Battle of Tours of 733	Cubism	German concept of Kultur
Bavaria	Cuzco	German Empire
Bhati movement	Cyrus I	German Federal Republic
biblical account of Genesis	Czar Nicholas I	Germanic peoples
Bismarck	Dadaism	Ghaznavid Empire
Black Death	Damascus	Golden Horde
Black Legend	David Siqueiros	Great Khan Mongke
Bloody Sunday	Decembrist uprising	Great Khan Ogoidei
Boccaccio	Declaration of the Rights of Man	Great War
Boer	Declaration of the Rights of Women	Great Western Schism
Boer War	Descartes' Discourse on Method	Greek comedy
Bolshevik	Diary of Murasaki Shikibu	Greek Orthodox Christianity
Brazilian independence movement		Greek philosopher
		Greek tragedy

Guatemala	Machiavelli	pre-industrial England
guild	Magyar cavalry	principle of the "Invisible Hand"
hacienda	Mahabharata	
Hadith	Mahdi Muhammad Ahmad I	process of Russification
Hapsburg Empire	Maratha	Protestant Work Ethic
Hatt-I-Humayun	Marx and Engel's Communist Manifesto	Qianlong emperor
Heian period	Marxism	Qing position on opium
Herodotus	May Fourth movement	Qizilbash nomadic tribesmen
hominid community	Mayan "Long Count" calendar	Rabbinic Judaism
Hun invasions	Mediterranean Empire	Ram Mohan Roy
Hung-wu emperor	<i>Mein Kampf</i>	Ramayana
Iberian Empire	Mesolithic	Rashid Rida
Iliad	mestizo	Red Sea
imperial Mughal	Mudejar Muslim	regulated family and community life
Impressionism	Munich Agreement in 1938	Romanization of Europe
Indian concept of ideal kingship	Nazi genocide	Roundhead
Indian uprising of 1857	Nazi ideology	royal patronage
Iran	Nazi-Soviet Non-Aggression Pact, 1939	Rudyard Kipling's White Man's Burden
Ismail	neo-Confucianism	Sahara desert
Italian humanism	Neolithic revolution	sans-culottes
Jamal al-Din	New England colony	Sargon
Japanese invasion of China	New Granada	Schlieffen Plan
Jenn-jeno	New World	Seljuk Empire
Jewish and Arab inhabitants of Palestine	nineteenth-century literature	Sikh
Jewish diaspora	Noh drama	Sino-Japanese War
Jewish flight to Poland and Russia	Nok terra cotta figure	Slavic world
Jiang Jieshi	nonhominid	Socialist Realism
Joan of Arc	northern Italian city-state	South African (Anglo-Boer) War
John of Plano Carpini	October Manifesto	South India
Joseph Francois Dupleix's theory of "divide and rule"	Odyssey	Southern Africa
Joseph II	Olympia de Gouge	Southern Europe
Kan	one child policy in China	Soviet nonaggression pact
Kangzi emperor	Orthodox Christianity	Spender
Kashmir	Pallavas	Srivijaya
Kerensky	Pandyas	Stalinist totalitarianism
Kievan Russia	Pan-Slavism	Strait of Malacca
King Joao II	partition of Africa	Sufism
Kumbi-Saleh	Pax Mongolica	Sui dynasty
Latin	Plato	Sumeria
Latin American revolution	Plato's <i>Republic</i>	Sun Yatsen
Latin Catholic church	poetry of Kabir	Sunni and Shi'ite factions
Lenin's ideology	poetry of Mirabai	Surrealism
lingua franca	pogroms in the Holy Roman Empire	Sykes-Picot Agreement
Lord Dalhousie	Polish rebellion	Taiping Rebellion
Louis XIV	Popul Vuh	temple of Madurai
		temporary dominance

Thailand	the Netherlands	Teotihuacan
the Congo	<i>The Pillow Book</i> by Sei	Tiahuanaco society
<i>The Interesting Narrative of</i>	Shonagon	Trans-Siberian railroad
<i>the Life of Olaudah</i>	<i>The Prince</i> by Machiavelli	Treaty of Nanking (1842)
<i>Equiano</i>	<i>The Wealth of Nations</i>	
Treaty of Shimonoseki		
(1895)		
Treaty of Versailles		
Ukraine		
Umayyad Dynasty		
“unified” India		
Venice		
Viking longboat		
Vladimir of Kiev		
Western hegemony		
Western political thought		
White Paper Reports on		
Palestine		
White Russian		
World influenza pandemic		
1918-1919		
Young Turk Movement		
Yuan Dynasty		
Zionist Movement		
Zoroastrianism		

Geography, Grades 9-12

absolute location
acculturation
agribusiness
agricultural soil
AIDS
airborne emission
air-mass circulation
alluvial fan
Americentric
aquifer
artesian wells
atmospheric pressure cells
atmospheric warming
Basque minority
Bible Belt
biodiversity
biological magnification
British Empire
bubonic plague
Buddhism
Burkina Faso
carbon cycle
Caribbean Basin
Carolingian Empire
carrying capacity
cartogram
cartographer
census data
census district
center-pivot irrigation
Central Europe
central place theory
chemical cycle
chemical fertilizer
Chernobyl nuclear accident
choropleth map
circuit-court district
climate graph (climagraph)
coastal ecosystem
coastal flood zone
command economy
commodity flow
Common Market
comparative advantage
complementarity
concentrated settlement
form
concentration of services
concentric zone model
congressional district
container company
contaminant
contemporary economic
trade network
continental climate
continental drift
cost-distance
crude birth rate
crude death rate
cultural diffusion
cultural landscape
culture hearth
culture region
cycling of energy
decolonization
deforestation
demographic transition
demography
depleted rain forests of
central Africa
deposition
desertification
diffusion
diffusion of tobacco
smoking
distance decay
distribution of ecosystems
doubling time
drought-plagued Sahel
dust storm
dynamic system
eastern Australia
eastern United States
ecology
economic dominance
economic incentive
economically developing
nation
edge city
environmental degradation
environmental determinism
equinox
erosional agent
ethnic elitism
ethnic enclave
ethnic minority
ethnicity
ethnocentrism
Eurocentric
European Union
eutrophication
exurban area
facsimile transmission
service
fanned
feedback loop
fertility rate
flow map
flow of energy
flow pattern
flow resource
flowchart
foreign capital
foreign market
formal region
free-trade zone
French colonization of
Indochina
friction
friction of distance
functional region
gentrification
Geographic Information
Systems
geographic technology
geomorphology
GIS
global market
global migration pattern
Great Barrier Reef
Great Plains Dust Bowl
greenhouse effect
greenway
Gross Domestic Product
Gross National Product
groundwater quality
groundwater reduction
habitat destruction
Han dynasty
hazardous waste handling
health care facility
High Plains
high-latitude place
hinterland
hub-and-spoke
human adaptation.
human control over nature

human-induced change	North Korea	rutile sand
Hutus	Nova Scotia	Rwanda
hybridization of crops	oblate spheroid	salinization
hydrilla	ocean ecosystem	salt accumulation
hydrologic cycle	Ontario	sand movement
hydrosphere	OPEC	secondary economic activity
indigenous people	overcutting of pine forest	sector model
Industrial Revolution	oxygen cycle	sediment
industrialization	ozone depletion	seismic activity
intermediate directions	ozone layer	sequence occupance
international debt crisis	perceptual region	silting
interstate highway system	peripheral area	Sinocentric
intervening opportunity	petroleum consumption	Social Security number
introduction of species	phosphate reserves	social welfare of workers
Iran	physical process	socioeconomic status
Iraq	physiography	soil acidification
Jerusalem	physiological population	soil creep
Kurds	density	soil salinization
lake desiccation	planned city	solar radiation
lake ecosystem	plant community	South Korea
land degradation	plate tectonics	Southeast Asia
landform relief	population pyramid	Spanish settlement
land value	Portuguese	stage of life
landmass	post-reunification Germany	statutory requirement
land-survey system	power bloc	sub-Arctic environment
Latin America	primary data	sub-Saharan Africa
law of retail gravitation	primary economic activity	subsistence agriculture
life experience	primate city	subsistence farming
light-rail system	principal parallels	sustainable development
location principle	profitability.	sustainable environment
Malaysian rain forest	pull factors	synergy
market economy	push factors	systemic
megalopolis	racial minority	tectonic plate
mental map	rain shadow	tectonic process
mercantilism	rate of natural increase	tertiary economic activity
metropolitan corridor	rate of resource	the Pampas in Argentina
microclimate	consumption	theory of comparative
midlatitude forest	reduction of species	advantage
migration counterstream	diversity	thermal
migration stream	regional planning district	threshold
molybdenum	regionalization	threshold population
monoculture	relative humidity	tidal process
moraine	relative location	toxic dumping
multinational organization	religious ties	toxic waste handling
municipality	relocation strategy	transnational corporation
NAFTA	remote sensing	transportation corridor
nation-state	resource base	transregional alliance
natural population increase	Ring of Fire	travel effort
network	Roman Empire	tropical soil degradation
Nicaragua	rural-to-urban migration	tungsten

Turkey
Tutsis
Ukraine
urban heat island
urban morphology
urbanization

volcanism
voting ward
ward
weathering
wilderness area

world atmospheric
circulation
world temperature increase
zoned use of land
zoning regulation

Civics, Grades 9-12

abortion	civility	federal supremacy clause
adversary system	class boundaries	federalism
advice and consent	class system	Federalist
affirmative action	“clear and present danger”	Food and Drug Administration
“all men are created equal”	rule	Fourteenth Amendment
allocation of power	Cold War	franchise
American constitutional	collective decision	free enterprise
democracy	common law	free exercise clause
Americans with	communism	freedom to choose
Disabilities Act	Communist International	employment
Amnesty International	concurrent power	freedom to enter into
anarchy	congressional district	contracts
Antarctic Treaty	congressional election	fundamental rights
Anti-Federalist	conservative	GATT
arbitrary rule	constituency	general welfare
arbitration	Constitutional amendment	general welfare clause
Article I of the Constitution	constitutional democracy	Head Start
Article I Section 7	constitutionalism	Helsinki Accord
Article I Section 8	constitutionality of laws	higher court review
Article II of the	consumer product safety	House of Commons
Constitution	copyright	House of Lords
Article III of the	cruel and unusual	humanitarian aid
Constitution	punishment	ideology
Articles of Confederation	democratic legislature	illegal search and seizure
authoritarian system	Democratic Party	immigration policy
bilateral agreement	direct democracy	impartial tribunal
body politic	direct popular rule	imperial power
boycott	distribution of power	inalienable rights
bribery	divine law	incorporation
British constitution	divine right	independent judiciary
<i>Brown v. Board of</i>	domestic tranquility	independent regulatory
<i>Education</i>	double jeopardy	agency
bureaucracy	E Pluribus Unum	International Monetary
capricious rule	electoral system	Fund
caste system	eminent domain	jingoism
charter local government	English Bill of Rights	judicial review
chauvinism	Enlightenment	junta
checks and balances	equal protection clause	jurisdiction
Chief Joseph’s “I Shall	Equal Rights Amendment	legislation
Fight No More Forever”	established religion	legislative districting
Chinese Revolution	establishment clause	legitimacy
citizenry	estate tax	libel
citizens and subjects	ethnicity	liberal
civil disobedience	European Union	liberalism
civil law	excise tax	Lincoln’s “House Divided”
civil liberties	exclusionary rule	litigation
civil rights legislation	Federal Communications	lobbying
Civil War amendments	Commission	Magna Carta
civilian review board	Federal Reserve	

market economy	self-determination
Marshall Plan	self-evident truths
monarchy	service group
Monroe Doctrine	sexual harassment
moral obligation	social contract
Most Favored Nation	social equity
Agreements	social issue
multilateral agreement	social welfare
multinational corporation	Sojourner Truth's "Ain't I a
NAFTA	Woman?"
National Education	state bill of rights
Association	statute law
national interest	supremacy clause
nationalism	system of checks and
natural law	balances
natural rights	Tenth Amendment
Ninth Amendment	term limitation
Northwest Ordinance	third party
op-ed page	time, place, manner
Organization of American	restrictions
States	two-party system
organized crime	unenumerated rights
organized labor	UNICEF
patent	union movement
perjury	unitary government
personal autonomy	urban decay
political cartoon	urban riot
political culture	vigilantism
political efficacy	warrant
political ideology	"We the People..."
political philosophy	winner-take-all system
political rights	Woodrow Wilson's
popular will	"Fourteen Points"
power of the purse	World Bank
power to declare war	World War I
primary election	World War II
private domain	zoning
private sector	
proportional system	
Protestant Reformation	
Puritan ethic	
referendum	
republic	
Republican Party	
reserved power	
right to due process of law	
right to life	
school voucher	
scope and limit	
search and seizure	

Economics, Grades 9-12

absolute advantage	federal tax revenue	per capita GDP
aggregate demand	financial institution	personal distribution of
aggregate supply	fiscal policy	income
allocation method	fixed income	personal income
bait and switch	fixed rate of interest	physical capital
balanced budget	free enterprise	positive externality
budget constraint	frictional employment	prevailing price
budget deficit	frictional unemployment	price ceiling
budget surplus	functional distribution of	price control
business deduction	income	price floor
capital stock	government directive	price stability
capitalism	government employee	private investment spending
circulation of money	government security	production cost
collective bargaining	government spending	production method
collusion	grant	production output
communism	home office	property tax
comparative advantage	income distribution	proprietor's income
complementary product	incorporation	public service commission
consumer fraud	interest payment	public welfare
Consumer Price Index	interest rate	public works
consumer spending	labor force immobility	real cost
consumer tastes	large-scale investment	real GDP
cooperative	liability rules	real interest rate
corporate spending	macroeconomics	recession
cost-benefit ratio	marginal benefit	redistribution of income
cost-push inflation	marginal cost	regulation
current interest rate	marketplace	rental income
cyclical unemployment	maximum employment	research and development
default on a loan	medical coverage	reserve requirement
deferment of loan	medical expenditure	return on investment
deficit	microeconomics	seasonal unemployment
deflation	monetary policy	service charge
demand-pull inflation	money supply	shareholder
demand curve	monopoly	shift in demand curve
depression	national debt	shift in supply curve
deregulation	national government	social security
discount rate	spending	social security withholding
disposable income	natural monopoly	socialism
Dow Jones	negative externality	speculation
durable goods	net export	standard measure (of
economic risk	nominal Gross Domestic	unemployment rate)
economic theory	Product	standard measures
economics	nominal interest rate	standard weights
elasticity	nondurable goods	state revenue
expected rate of inflation	nonexclusion	stock
expenditure	nonprice competition	stock market
externalities	oligopoly	stockholder
Federal Reserve System	open market purchase	structural unemployment
federal spending	payroll tax	subsidy

supply curve
tariffs
tax revenue
telecommuting
transaction cost
transfer payment
transportation cost
underground economy
virtual company
Wall Street
warranty
work experience
workers' compensation

Health, Grades 9-12

abstinence	DSS regulation	melanoma
advocacy service	emotional health	middle age
alcohol dependency	environmental health	needle sharing
antioxidant	environmental tobacco	nicotine
assertive consumerism	smoke	nutrition plan
benign	EPA	OSHA
biopsy	fad diet	osteoporosis
breast examination	family intervention	paranoia
caffeine dependency	FDA	pathogen
carcinogenic	federal agency	penis
child-care center	female sexuality	perinatal care
child abuse	fetus	prenatal care
cirrhosis	food-production control	psychotherapy
clinical depression	gender differences	refuse
cocaine	genetic inheritability	regular examination
communicable disease	health-care product	rehabilitation
conflict prevention strategy	health insurance	reproduction
consumer health service	household-waste disposal	Right to Know law
coping strategy	immune system	sexual activity
date rape	inhalants	social isolation
dating relationship	interpersonal conflict	state agency
degenerative disease	life cycle	substance abuse
diet aid	male sexuality	teenage pregnancy
dietary supplement	malignant	testicle
drug-related problem	marijuana	tobacco dependency
drug of choice	medical history	vagina

**Physical Education,
Grades 9-12**

abdomen

aquatics

autonomous phase of
learning

ballistic stretching

biomechanics of movement

body composition

cardiovascular efficiency

center of gravity

circuit training

equilibrium

extracurricular sport

fast-twitch muscle

health-enhancing level of
fitness

international competition

interval training

law of specificity

leadership role

mental imagery

overload principle

personal fitness program

physiological factor

progression principle

progressive overload

rate of perceived exertion

respiratory efficiency

reversibility

sedentary lifestyle

situational awareness

slow-twitch muscle

specificity principle

sport facility

sport psychology

static balance

static stretch

**Arts General,
Grades 9-12**

artistic process
contemporary music
craftsmanship

emotional dimension
integration of art forms
media

technique
unity of the arts
universal concept

Dance, Grades 9-12

abstract dance
alignment
axial movement
Balinese dance
base of support
bharata natyam dance
body part articulation
body image
central initiation
choreographic
choreographic process
choreographic structure
distal initiation
dynamic qualities or efforts
Ghanaian dance
noh dance
kinesphere
kinesthetic awareness
line of gravity
locomotor movement
Middle Eastern dance
modern dance
movement elevation
movement phrase
movement theme
musicality
nonlocomotor movement
palindrome
penultimate movement
percussive
projection
rhythmic acuity
rondo
skeletal alignment
tempi
theme and variation
time element

Music, Grades 9-12

accelerando

acoustic instrument

alla breve

allegro

andante

Broadway musical

chord progression

compositional device

compositional technique

consonance

contour

decreasing

dissonance

duple meter

expressive device

instrumental score

instrumentation

inversion

oratorio

ostinato

pentatonic melody

pentatonic tonality

point of climax

register

retrograde

rhythmic phrase

rubato

staves

swing

tempo marking

vocal literature

vocal score

Theater, Grades 9-12

acting method

aesthetic achievement

American theater

dramatic text

heritage

musical theater

oral symbol

physical & chemical

properties of lighting,

color, electricity

production requirement

promotional plan

stage management

unified production concept

visual symbol

Visual Arts, Grades 9-12

art criticism
art object
halftone

highlight
negative space
organizational principle

positive space
shadow edge

Technology, Grades 9-12

artifact	HTML	person-to-person
batch production	import a file	pixel
binary	information transfer	RAM
biotechnology	initialize	rate of diffusion
bit	intelligent system	recursive process
Boolean search	iterative process	redundancy
byte	kilobyte	repetitive process
chat room	linear system	scanner
chip	listserv	service provider
closed-loop system	machine-to-machine	simple system
coordinated subsystems	macro	simulation
CPU	magnetic field	software application
debug	mail merge	sound recorder
dedicated line	mathematical modeling	spam
design principle	megabyte	story board
dual effect	merge files	streaming
encoder	microprocessor	subsystem
e-paper	modified design	system design
export a file	natural object	systems thinking
external storage	open-loop system	telecommunications
feedback system	operating system	telecomputing
field	optimized solution	template
frame	overdesign	transmitter
gigabyte	patent	usenet newsreader
hardware limitations	performance testing	Web ring
hardware platform	peripheral device	
hardware trade-off	person-to-machine	

Four Square Activity

1. Have students divide papers into four quadrants.
2. In the first quadrant students are to write the number sentence for math and the problem, question for other subjects, or define the concept
3. In the second quadrant students are to provide the solution for math or for the other subjects, or write critical attributes of the concept.
4. In the third quadrant, students are to draw a picture of the problem any way they would like, or, in writing, provide examples of the concept.
5. In the fourth quadrant students are to write about the solution, how they arrived at the solution and generally explain the process they used to get to the solution, or provide NON examples of the concept.
6. This process needs to be used constantly to train students in this method of problem solving and communication.
7. This process was adapted from numerous authors including Payne and Marzano.

Student Name:

Four Square Worksheet

<p>1. Write the number sentence or problem OR define the concept.</p>	<p>2. Solve the problem/provide a solution OR write critical attributes of the concept</p>
<p>3. Draw a picture of the problem and solution OR provide examples of the concept</p>	<p>4. Describe the problem in words and describe the process you used to get the solution OR provide NON examples of the concept</p>

Academic Literacy Notebooks in the Classroom

Why use academic literacy notebooks?

Students need to write in order to construct their ideas and begin to develop a true conceptual understanding of the concepts they are learning. Writing must be an everyday occurrence throughout the content when students develop their questions, make predictions, make observations, collect/organize data, develop claims and evidence, and make sense of their conclusions.

What is included in an academic literacy notebook?

Academic notebooks should have several components as detailed below.

Focusing the Instruction/Learning

Focus Question (Big Idea)

This would be the essential question, problem, and/or learning goal

- What do you have to investigate or figure out in this lesson that is related to the big idea?
- What will be the main question that will guide your learning?

Prediction

- What do you think will happen?
- Why do you think this? What background knowledge do you use for this prediction?

If I do.....then.....will happen because.....

I think.....because.....

Planning

Materials

Data Acquisition and Organization

Students should collect and record data in a way that makes sense to them. This can include narratives (paragraphs), bullets, scientific drawings, sketches, diagrams, models, schematics, charts/tables, graphs, drawings.

Students should always title and label diagrams, pictures, graphs and charts. Measurements should be specific, accurate, and units labeled. Student should **never** erase work.

Making Sense of Data

This is probably the MOST IMPORTANT part of any lesson and is often the part that gets skipped or forgotten.

- Interpret data: students look for patterns/anomalies
- Claims/Evidence: students state claims based on evidence (data collected)
- Students answer the question, “What do you claim to be true?”
- Students address the question, “How can you prove what you are stating?”
Students back up answers by stating,
“I claim that when...., then....happens.”
“I know this to be true because.....”
- Conclusions and Summarizing
Students restate the focus question as a topic sentence by using the following,
“In this investigation/lesson.....”
“I learned that.....”
Students use data from their claims/evidence chart to answer.
“Refer back to your prediction.”
“My prediction what correct/incorrect because.....”

Reflection

Students address, “What new questions do you have to extend your learning?” Examples include,

- “I liked/did not like....because.....”
- “This reminds me of....because.....”
- “I wonder what would happen if.....”

ACE (Answer – Cite Evidence – Expand): Strategies for demonstrating learning with short answer, extended response items

The purpose of ACE, which stands for Answer, Cite Evidence, and Expand, is to provide a high yield strategy that allows students to provide answers to constructed response items. The ACE process allows students to show what they know or can do. While teachers may be disheartened the first time students use this strategy, perseverance is the key. In other words, practice makes perfect, and all teachers should be encouraged to use this interesting technique. Teachers should be reminded that ACE is both a teaching technique and a student answer process.

More and more the trend in test development is to place more emphasis on constructed response items. This follows the national trend in standards-based assessment, which is to remove the ability for students to guess at answers. In this kind of answer process, students are required to provide evidence about how they derived their answers. ACE does not replace rubrics intended to guide and evaluate the complete writing process, but it can compliment good writing by helping students translate what they have learned from what they have heard or read into a constructed response.

The process for ACE is simple enough:

- A:** Answer the question or problem
- C:** Cite evidence from the text or compute the work
- E:** Expand the answer or explain how the answer was derived

The use of the ACE method is a specific fix for a specific problem – that of students being able to demonstrate learning through extended response questions. Students are guided through ACE, which requires them to reread the problem, answer the question, give examples from the problem, and expand the answer so that the students obtain the maximum benefit from this strategy. The point of ACE is to apply a strategy that encourages students to think deeply about a problem in order for them to communicate their thinking as well as the correct answer.

In a simple example, cited from Shipley and Associates, a student was asked to read the story of *Goldilocks and the Three Bears*. The student was then asked to answer this question,

“What kind of girl was Goldilocks?”

The student was then expected to apply the ACE strategy to answer the question:

- A: Answer the question:** *“Goldilocks was a very naughty little girl.”*
- C: Cite evidence from the story:**

“I know she was naughty because she broke into the Bears’ house, ate their food and broke their chairs. That is illegal and you could go to jail if you got caught.”

E: Expand the answer:

I bet Goldilocks Mom is mad at her when she gets home. She might be sent to time out. I have been naughty a few times – sometimes I get caught and sometimes I get away with it.”

Here is another example from a mathematics lesson:

There are 29 NBL teams. Each team is allowed to have 12 active players and 3 on injured reserve. How many players are in the NBL at any one time?

A: Answer the question:

435 Players

C: Cite evidence from the story (or) show your work:

$$29 \times 15 = 145$$

$$145 \times 29 = 435$$

E: Explain how you got your answer:

First I figured out that each team was allowed to have 12 players plus 3 who were hurt and that equals 15 total players on each team. Then I multiplied the sum by 29 to my answer of 435. I showed my work in an equation. . . (or) I could do it in my head – you could round up to 30, multiply by 15 and get 450. Then you subtract a group of 15 from 450 to get the same answer 435.

Finally, Shipley and Associates recommends teachers do the following to implement ACE in their classrooms:

- Teach it to your students
- Remind them why it is important
- Have students assess regularly
- Try having students chart their progress on answering ACE-type questions
- Show anchor papers
- Check on the scores periodically
- Give a weekly ACE

In departments or grade levels, teachers could determine how they might use the ACE technique in classrooms. If teachers are already using the ACE approach, try describing what is working, what is not, and adjustments that are planned. An important question for all educators to ask is “How will it (ACE) help meet the strategic learning goals of the class?”

ACE Strategy

When students practice using ACE, they respond with short or extended responses using the teacher’s guidance to answering a question. ACE is simple and effective:

1. **A** . . . Answer the question in writing
2. **C** . . . Cite the evidence from the passage, book or resource that is being used to support the answer.
3. **E** . . . Expand the answer by
 - a. Making a prediction about what might happen next (i.e. “I predict that ...”).
 - b. Making a personal connection to the materials (i.e. “I have had a similar experience ...”).
 - c. Drawing a conclusion about the characters or content (i.e. “I think X is Y because ...”).
 - d. Making a comparison (i.e. “X and Y are alike because...,” or, “X and Y are different because ...”).
 - e. Reflect cause and effect (i.e. “Because of X the effect is Y.”).

Another ACE format can be used for mathematics and science:

ANALYZE	<p>Problem: read the problem two times and underline important information. Write the important information here:</p> <p>What is the problem asking? _____</p>
COMPUTE	<p>Picture: Draw a picture of the problem:</p> <p>Numbers: <u>Add</u> or <u>subtract</u> or <u>multiply</u> or <u>divide</u> or <u>perform several functions</u>:</p> <p>Write the <u>equation or function</u>:</p>
EXPAND	<p>Words: Explain in writing how the problem was solved.</p> <p>Write the answer by restating it in units:</p>

