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.
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.

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Mathematics, Grades K - 2

<table>
<thead>
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<th>Term</th>
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<td>inch</td>
<td>second (time)</td>
<td>set</td>
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<td>orientation</td>
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<td>outcome</td>
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<td>outside</td>
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Science, Grades K - 2

air
animal features
balance
behavior pattern
boulder
burning
chart
circular motion
cloud
color
computer
daily weather pattern
day
death
dinosaur
dissolving
distance
diversity of life
Earth materials
Earth’s gravity
Earth’s rotation
egg
energy
food
freezing
gas
growth
habitat
heat
horsetail tree
individual differences
insect
light
liquid
liquid water
location
machine
magnet
magnification
magnifier
mammoth
mixture
month
Moon
motion
night
observation
ocean
parent
parent/offspring similarity
pebble
plant
plant growth
position
precipitation
prediction
prehistoric animals
properties of light
pulling
pushing
reasoning
requirements for life
rock characteristics
ruler
salt water
sand
science
scientist
seasonal change
seasonal weather pattern
shape
shelter
similarities & differences
among organisms
size
sky
soil
solid rock
sound
star
star age
star brightness
states of matter
straight -line motion
Sun’s position
Sun’s size
teamwork
temperature
the senses
thermometer
universe
vibration
water
weather
weather conditions
weather patterns
week
weight
wind
year
zigzag motion
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
America
American Revolution, 1776
ancient time
archeological evidence
argument
automobile
beginning
behavior
belief
Benjamin Franklin
bow and arrow
bridge
building
calendar time
camel caravan
cause
celebration
ceremony
chariot
Christmas
Christopher Columbus
city
colonial community
common good
community
country
cowboy
crop
cultural tradition
daily life
dance
day
decade
democracy
disagreement
domesticated animal
education
ending date
England
English colony
environment
equality
event
expansion
explorer
fable
family history
family life
farm
father of our country
folk tale
Fourth of July
freedom
future
generation
geography
George Washington
goods
government
group membership
harvest festival
heroism
history
holiday
houses of worship
housing
human rights
hunger
hunter/gatherer
idea
independence
individual rights
invention
job
journey
law
leader
legend
Liberty Bell
lifestyle
local history
Martin Luther King Jr.
Martin Luther King Jr. Day
Memorial Day
middle
money
month
monument
myth
nation
national flag
national holiday
Native American
newcomer
non-motorized vehicle
oral tradition
origin
past
photograph
picture time line
pioneer
place-name
plant cultivation
Pledge of Allegiance
Plymouth
pony express
prairie
present
printing press
radio
recent past
recreation
region
regional folk hero
regional song
religion
resistance
respect for others
responsibility
revolution
role
rules
satellite system
sculpture
senior citizen home
services
society
soup kitchen
state
steam engine
steamship
surplus food
symbol
tall tale
team member
technology
telegraph
temple
territory
Thanksgiving
Thomas Jefferson
time line
today
tomorrow
tool
town
trade
trail
transportation
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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
Health, Grades K - 2

911
abuse
argument
birth
bleeding
blood
bruise
conflict
congestion
cough
cut
death
dentist
diet
disease
divorce
doctor
drug
drug
emergency
exercise
extended family

family member
fat
feelings
feelings of others
fever
fire safety
food group
food handling
gums
hand washing
harmful substance
health
helmet
hospital
human body
illness
injury
listening skill
marriage
medicine
nails

name calling
nurse
paramedic
police officer
pollution
precaution
rash
rest
risk
safety rule
scratch
simple injury
skin
stranger
symptom
tooth decay
traffic safety
water safety
wheezing
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
distance
ending
fall
forward
height
hop
landing
leap
middle
sideward
skip
straight
strength
stretch
turn
twist
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<td>lullaby</td>
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<td>melody</td>
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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
derner 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
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2-dimensional shape  dividend  irrelevant information in a problem
2-dimensional shape  divisibility  isosceles triangle
combination  division  least common multiple
equation  mass  line graph
equation  measurement  linear pattern
equation  mean  measures of central tendency
equation  estimation  measures of height
equation  estimation of fractions  measures of length
equation  estimation of height  measures of width
equation  estimation of length  median
equation  estimation of width  meter
even numbers  metric system
expanded notation  midpoint
extreme value  mixed numbers
faces of a shape  mode
factors  multiple
flip transformation  multiplication
fraction  negative number
fraction  number of faces
fraction addition  number pairs
fraction division  number sentence
fraction multiplication  number triplet
fraction subtraction  obtuse angle
fractions of different size  odd numbers
front-end digits  open sentence
front-end estimation  order of operations
function  parallel lines
geometric pattern  parallelogram
geometric patterns  parallelogram formula
extension  part to whole
gram  path
greatest common factor  pattern addition
growing pattern  pattern subtraction
histogram  percent
identity property  perimeter
improbability  perpendicular lines
improper fraction  pie chart
inequality  positive number
inequality solutions  prime factorization
inequality  prime number
intersection of shapes  prism
invalid argument  probability
different size units  process of elimination
distributive property
ability to support life
density
detrimental change
disease
drought
Earth’s axis
Earth’s orbit
Earth’s surface
Earth’s temperature
earthquake
electrical charge
electrical circuit
electrical current
electricity
energy transfer
engineering
environment
environmental changes
environmental conditions
erosion
evaporation
external cue
extinction
food chain
food web
force strength
forms of energy
forms of water
formula
fossil
fossil evidence
fresh water
friction
gases of the atmosphere
generator
glacial movement
glacier
graduated cylinder
graph
ground water
heat conduction
heat transfer
herbivore
history of science
inherited characteristic
land form
landslide
life cycle
light absorption
light reflection
light refraction
living organism
logical argument
magnetic attraction
magnetic repulsion
mass
measurement of motion
melting point
metal
microscope
migration
mineral
Moon’s orbit
Moon’s phases
naturalistic observation
nutrients
ocean currents
offspring
oil
omnivore
ongoing process of science
organization
outer space
phase change
photosynthetic plants
physical properties
physical setting
pitch
planet
plant organ
plant product
plant root
plant/animal
pollution
population
population density
position over time
predator
prehistoric environment
prehistoric organisms
properties of soil
properties of sound
properties of water
question formulation
recycle
relative position
replicable experiment
reproducible result
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English Language Arts Grades 3-5
abbreviation
custom
declamatory sentence
declarative sentence
decode
definition
detail
diary
direct quote
directions
director
discussion leader
double negative
draft
drama
direct mail
editing
ed
e-mail
encyclopedia
ending
essay
example
explanation
expression
fable
facial expression
fantasy
fiction
first person
form
friendly letter
genre
gesture
glossary
grammar
graphic artist
graphic organizer
graphics
greeting
guide words
heading
headline
host
hostess
how question
humor
illustration
imagery
indentation
index
inference
Internet
interrogative sentence
introduction
investigate
invitation
irregular plural noun
journal
key word
learning log
legend
letter of request
listing
list
listening comprehension
literature
meaning clue
memorial
minor character
miscue
mood
motive
multi-meaning word
multiple drafts
multiple sources
myth
mystery
news
newspaper section
nonfiction
notes
noun
novel
numerical adjective
object
opinion
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oral report
organization
outline
pamphlet
paragraph
passage
past tense
peer review
pen pal
period
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personal pronoun
phone directory
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<td>voice</td>
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<td>scan</td>
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<td>science fiction</td>
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<td>second person</td>
<td>where question</td>
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<td>why question</td>
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<td>word search</td>
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<td>signature</td>
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<td>singular noun</td>
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food production  
food storage  
forced relocation  
foreign policy  
foreign trade  
former master  
former slave  
France  
Francisco Franco  
Franklin D. Roosevelt  
Frederick Douglass  
freedom of expression  
freedom of religion  
freedom of speech  
French colony  
French Revolution  
frontier  
frontiersman  
Galileo  
geographic border  
geology  
George Bush  
George W. Bush  
George Washington Carver  
Gerald Ford  
Germany  
Geronimo  
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home front  
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Hopi  
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river system
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diplomacy
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discrimination based on disability
discrimination based on national origin
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national security
negotiation
nobility
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patriotism
peaceful demonstration
personal responsibility
petition
political candidate
political office
political party
politics
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population growth
poverty
prejudice
president
presidential election
Prayer in Public Schools
President’s Day
privilege
P.T.A.
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public office
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public servant
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pure food and drug laws
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racial discrimination
racial diversity
representation
representation
revolution
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right to choose one’s work
right to criticize the government
right to join a political party
right to public education
right to vote
royalty
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specialization
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- athletic equipment
- balance board
- baseball
- basketball
- basketball chest pass
- bat
- batting
- body control
- boxer
- championship
- competitive sport
- conditioning
- cool-down
- course
- court
- curl-up
- cyclist
- defensive strategy
- distance walk/run
- diver
- endurance
- endurance activity
- fielding
- fitness level
- fitness standard
- follow-through
- foot dribble
- football
- gymnastics
- hand dribble
- hockey
- ice skates
- increased heart rate
- individual sport
- lifestyle
- lifetime sport
- locomotor skill
- motor skill
- movement control
- movement pattern
- muscle soreness
- muscular endurance
- muscular strength
- net & invasion game
- nonlocomotor skill
- object-control skill
- offensive strategy
- opponent
- personal challenge
- personal space
- physical fitness level
- physical fitness test
- physical injury
- power
- procedure
- professional sport
- proper nutrition
- pull-up
- pulse rate
- punt
- push-up
- racing start
- racket
- racket sport
- recovery rate
- recreational league
- rhythmical skill
- rink
- risk taking
- self-assessment
- self-expression through physical activity
- serve the ball
- shoot the ball
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- skate
- skis
- soccer dribble
- softball
- sport etiquette
- sport-specific skill
- sports apparatus
- sports club
- sportsmanship
- stealing the ball
- striking pattern
- swimming
- temporary tiredness
- tennis
- timed walk/run
- to make a play
- track
- training
- transition movement
- traveling pattern
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- wheelchair sports
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## Dance, Grades 3 - 5

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chord
classroom instruments
composing
composer
conductor
cue
diminuendo
Dixieland music
dotted note
drum machine
duet
echo
eighth note
electronic instrument
electronic sound
elements of music
embellishment
flat
folk
forte
fretted instrument
gospel music
guitar
half note
harmony
key signature
keyboard
keyboard instruments
legato
levels of difficulty
major key
march
measure
MIDI
minor key
Musical Instrument
Digital Interface
musical phrase
musical piece
musical staff
nontraditional sound
notation
orchestra conductor
orchestral instrument
patriotic song
percussion instrument
pitch
posture
progression
quarter note
recorder
repeat
rest
rhythmic variation
ritard
rock music
round
scale
sequencer
sharp
sixteenth note
skipping
snapping
soprano
staccato
staff
standard notation
string instrument
symbol for articulation
synthesizer
tenor
tie
time signature
traditional sound
treble clef
ukulele
whole note
work song
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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
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
<table>
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<tr>
<th>random sample</th>
<th>scatter plot</th>
<th>functions</th>
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<td>range</td>
<td>sequence</td>
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<td>range of-estimations</td>
<td>shrinking transformation</td>
<td>tessellation</td>
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<td>rate</td>
<td>significant digits</td>
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<td>rate of change</td>
<td>similar proportions</td>
<td>theoretical probability</td>
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<td>rational number</td>
<td>similarity vs. congruence</td>
<td>thermometer</td>
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<td>rectangular coordinates</td>
<td>simplification</td>
<td>trapezoid formula</td>
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<td>recursive sequence</td>
<td>slide transformation</td>
<td>tree diagram model</td>
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<td>reference set</td>
<td>slope</td>
<td>triangle sides</td>
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<td>reflection transformation</td>
<td>slope intercept formula</td>
<td>underestimation</td>
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<td>relative frequency</td>
<td>solid figure</td>
<td>unit size</td>
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<td>relatively prime</td>
<td>solution algorithm</td>
<td>unknown</td>
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<td>reliability</td>
<td>solution probabilities</td>
<td>variable</td>
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<td>Roman numeral</td>
<td>spreadsheet</td>
<td>variable change</td>
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<td>root</td>
<td>square number</td>
<td>vertex</td>
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<td>rotation symmetry</td>
<td>square root</td>
<td>volume formula</td>
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<tr>
<td>sample selection techniques</td>
<td>square units</td>
<td>volume of cylinder</td>
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<tr>
<td>sample space</td>
<td>stem and leaf plot</td>
<td>volume of prism</td>
</tr>
<tr>
<td>sampling error</td>
<td>straight edge and compass</td>
<td>volume of pyramid</td>
</tr>
<tr>
<td>scale drawing</td>
<td>substitution for unknowns</td>
<td>work backward</td>
</tr>
<tr>
<td>scale map</td>
<td>supplementary angle</td>
<td>written representation</td>
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<tr>
<td>scale transformation</td>
<td>table representation of</td>
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English Language Arts. Grades 6-8
action segment
description
derivation
adjective clause
descriptive language
descriptor
adjective phrase
diagram
diagram
adverb clause
dialect
diary
adverb phrase
dialogue
document
almanac
documentary
text
Anglo-Saxon affix
editorial
Anglo-Saxon root
elaboration
argumentation
documentary
atlas
enunciation
authors purpose
episode
autobiography
etiquette
background knowledge
etymology
catalog
exclamation mark
collection
CD
exclamatory sentence
CD-ROM
explicit/implicit
central
character trait
exposition
children's program
extend invitation
clarification
extraordinary
climax
feature story
close-up
feedback
closing
facilitator
close-up
facet
clue
facade
circular
cross-reference
feather
current affairs
feature
duplicate
employ
historical fiction
demonstrative pronoun
historical theme
General History, Grades 6-8

adaptation
agrarian society
agribusiness
agricultural economy
agricultural lifestyle
agricultural technology
anthropologist
antibiotics
armed revolution
astronomical discovery
astronomy
atomic bomb
authoritarian rule
Batu
Benin
Bill Clinton
birth rate
black majority
blind respect
boundary dispute
bourgeoisie
British rule
bronze casting
brush painting
business practice
capitalism
capitalist economy
Catholic Christianity
Catholic Church
chance event
charter document
chattel slavery
checks and balances
child labor
Chinese Revolution
Christian beliefs
civil disobedience
civil service examination
civil service reform
civilian
civilian population
civilization
clergy
coerced labor
cohesion
collectivization
colonization
colony in Massachusetts
commercialization
communal life
Communist country
Communist Party
conflict resolution
conservation movement
conservatism
contemporary democracy
convert
cosmos
court packing
crop rotation
cross-cultural contact
cultural exchange
cultural heritage
cultural integration
daily survival skill
dating methods
death rate
debtor class
demographic shift
depression
desegregation
discrimination
disease microorganism
disenfranchisement
dissent
divided loyalties
domestic crop
dowry
Dutch colonization
economic power
economy
Egyptian civilization
emigration
employment opportunity
English Common Law
environmental change
epic
epidemic disease
equal opportunity
equal protection of the laws
ethical belief
ethical systems
ethnic art
ethnic conflict
ethnic group
ethnic identity
ethnic minority
ethnic origin
evolution
exodus
extractive mining
fair employment practice
fascism
Federalist Party
feminism
feminist movement
final solution
financing
flora
foreign capital investment
foreign market
fortification
founders
fraternal organization
French colonization
fundamental value
gender role
global communication
global market
gridiron pattern
group overlap
Haitian Revolution
hierarchy
historical account
historical fiction
historical narrative
hoarding
Holocaust
hostility
human intention
human nature
Iberia
immigration screening
imperial policy
imperialism
import
individual status
industrialization
infant mortality rate
inheritance law
innate ability
international market
international relations
interpretation
intervention
Iraq
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
African-American Union soldier
American dream
American foreign policy
American identity
American West
Anne Hutchinson
antebellum period
Anti-Federalist
anti-immigrant attitude
antislavery ideology
Article III of the Constitution
Atlantic slave trade
Bacon’s rebellion
Battle for Britain
Benjamin Franklin’s autobiography
big stick diplomacy
Calvin Coolidge
Camp David Accords
Charles Evans Hughes
Christian evangelical movement
Church of Jesus Christ of Latter-day Saints
closed shop
Compromise of 1850
Compromise of 1877
Congress
Congressional authority
Continental Congress
Dawes Severalty Act of 1887
Declaration of Sentiments
Democrat
Democratic-Republican Party
dollar diplomacy
domestic policy
domestic program
Dr. Francis Townsend
Dred Scott decision
Dwight D. Eisenhower
Eisenhower Doctrine
election of 1800
election of 1912
Engel v. Vitale
English Bill of Rights (1689)
Equal Rights Amendment
Fair Deal
family assistance program
Farm labor
featherbedding
federal Indian policy
federalism
Filipino insurrection
First Amendment
First Congress
First Lady
flawed peace
free exercise clause
French and Indian War
Garvey movement
gentleman’s agreement
Glorious Revolution
Great Society
Hiram Johnson
Huey Long
impeachment
Industrial Workers of the World
Iranian hostage crisis
James Buchanan
James Madison
Jay’s Treaty
John Marshall
Joseph McCarthy
Judiciary Act of 1789
Kennedy assassination
Ku Klux Klan
Lewis and Clark expedition
Little Rock 1957
Loyalist
Malcolm X
Marbury v. Madison (1803)
Massachusetts
McCarthyism
midnight judge
modern republicanism
NAACP
Navigation Acts
new freedom
new nationalism
Normandy Invasion
Northwest Ordinance of 1787
Oregon territory
pardon of Richard Nixon
party system
Paxton Boys Massacre
Populism
Populist Party
Progressive era
Progressive movement
Reconstruction amendments
Republican
Republican Party
return to domesticity
Robert La Follette
Roosevelt coalition
Rust Belt
Scopes trial
Seneca Falls Convention
share the wealth
shot heard round the world
Soviet espionage
Sun Belt
Tenure of Office Act
thirteen virtues
Townsend Plan
Transcendentalism
trans-Mississippi region
Truman Doctrine
U.S. Supreme Court
universal white male
suffrage
Virginia
Warren G. Harding
Whig Party
Works Progress Administration
WPA project
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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
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acid rain
adaptation
Algeria
alphanumeric system
alternative energy source
Amsterdam
architectural style of buildings
arid climate
assimilation
Australia
average family size
axis
barrier island
Belgium
bicycle lane
biome
biosphere
Boston
boundary dispute
Brenner Pass
building style
Burma Pass
Canberra
Capitol Hill
central place
cheap labor
Chile
China
Chinatown
Chinese textile
clearing of forest
climate region
Congo
conservationist
contemporary system of communication
Cumberland Gap
data set
database
decentralization
Delaware River
demographic change
demographic information
density
density of population
developed country
developing country
diamond trade
diesel machinery
dispersion
division (of Earth’s surface)
downstream
drainage basin
dry-land farming technique
earth-moving machinery
earthquake-resistant construction
earthquake zone
economic alliance
ecosystem
electric car
energy-poor region
energy industry
energy source
equilibrium
Ethiopia
ethnic composition
evacuation route
Everglades
export
fall line of the Appalachians
fauna
feeding level
flat-map projection
flood-control project
floodplain
flora
fungi
Gateway Arch-St. Louis
geographic factor
global impact
global warming
Golden Gate Bridge-San Francisco
Great American Desert
grid
hemisphere
historic preservation
Hong Kong
housing development
Huang Ho
human process
hurricane
hurricane shelter
hurricane tracks
hydroelectric power
imported resource
Indians
Indonesia
industrial center
industrial district
infant mortality rate
infrastructure
interdependence
internal structure
Inuit
involuntary migration
Iraq invasion of Kuwait
(1991) Irish immigrant
isthmus
Italy
Jamaican sugar
Japanese occupation of Manchuria (1930s)
Khyber Pass
land-locked
land-use data
land-use pattern
language region
leeward
levee
life form
linkage
literacy rate
lithosphere
Little Italy
local scale
major parallel
marine climate
marine vegetation
meridian
Mesopotamia
midaltitude
migrant population
military campaign
military installation
mobility
Moslems
multiculturalism
nationalism
natural resource
natural vegetation
natural wetlands
Netherlands
New Delhi
Nile Valley
nitrogen cycle
nonrenewable resource
nuclear-waste storage
ocean circulation
ocean pollution
Ogallala Aquifer
old-growth forest
Opera House-Sydney, Australia
origin
overfishing
overpopulation
Pakistan
paper factory
pedestrian walkway
pesticide
petroleum
Philippine archipelago
Philippines
physical environment
physical geography
physical variation
plant species
political region
political unit
population concentration
population density
population distribution
population growth rate
population region
population structure
postal zone
prevailing wind
prime meridian (Greenwich meridian)
principal line
principal meridians
production site
public housing
public transit
raw material
recession
reforestation
region of contact
regional boundary
regrowth
religious facility
renewable resource
residential pattern
resource management
ridge-and-valley pattern
Riviera
runoff
rust belt
satellite-based communications system
Saudi Arabia
savanna
school district
sea wall
seasonal pattern of life
semiarid area
settlement pattern
shifting civilization
Siberia
Sikhs
Singapore
single-industry city
soil erosion
soil fertility
solar power
South Africa
Soviet Union
spatial
spatial arrangement
spatial perception
spatial scale
spread of bubonic plague
spread of disease
standard of living
steel-tipped plow
strait
strip mining
suburbanization
Sunbelt
system
Tacoma Strait
tariff
technological hazard
telephone area code
temperature fluctuation
terrace
terraced rice fields
The Hague
thematic map
topography
Tower Bridge-London
trade advantage
transportation hub
Trenton
triangular trade route
Tropic of Cancer
Tropic of Capricorn
tropical rain forest
truck-farming community
tsunami
tundra
Twin Peaks
urban commuting
use of explosives
Vietnamese
voluntary migration
Washington
water spring
water supply
watershed
work animal
World Court
Yucatan Peninsula
Civics, Grades 6-8

AFL-CIO
Aid to Families with
Dependent Children
allegiance
ambassador
American citizenship
American Revolution
American tribal government
armed forces service
arms control
bias
binding agreement
cabinet
capital punishment
central government
charitable group
citizenship by birth
civil rights
civil rights movement
civilian control of the
military
coining money
colonial charters
commander in chief
Common Cause
Confederate States of
America
conflict management
constitutional law
corrective justice
covert action
criminal law
curfew
customs search
death penalty
debate
delegated powers
demographics
demonstration
domestic policy
dress code
due process
economic aid
economic incentive
economic sanctions
economic security
English Parliament
enumerated powers
Environmental Protection
Act
environmental protection
movement
equal justice for all
equal protection of the law
equal rights under the law
equity
ethical dilemma
ethnic diversity
ex post facto
executive power
fair notice of a hearing
fair trial
federal court
federal income tax
First Amendment
foreign aid
foreign policy
foreign relations
form a more perfect union
Founders
Framers
freedom of assembly
freedom of association
freedom of conscience
freedom of petition
freedom of press
freedom of residence
freedom to emigrate
freedom to marry whom one
chooses
freedom to travel freely
French Revolution
fundamental principles of
American
democracy
gender diversity
general election
Gettysburg Address
Greenpeace
gun control
habeas corpus
hate speech
immigration
impeachment
income tax
indentured servitude
informed citizenry
institution (political)
interest group
international law
International Red Cross
interstate commerce
interstate highways
judicial branch
judicial power
just compensation
juvenile
labor movement
landmark decision
Latin America
League of Women Voters
legal recourse
legislative branch
legislative power
legislature
letter to the editor
licensing
limited government
local election
lower court
loyal opposition
majority rule
Marbury v. Madison
Martin Luther King Jr.’s “I
Have A Dream”
Mayflower Compact
Medicaid
Medicare
minimum wage
minority rights
NAACP
national defense
nation-state
NATO
naturalization
Nineteenth Amendment
nomination
OAS
Parliament
parliamentary system
People’s Republic of China
picket
political life
political appointment
popular sovereignty
prayer in public school
preamble
Preamble to the Constitution
president’s cabinet
presumption of innocence
prime minister
principle
private life
private property
property tax
protest
public agenda
public life
public opinion poll
public trial
Pure Food and Drug Act
recall election
representative democracy
representative government
revenue
right of appeal
right to acquire/dispose of property
right to copyright
right to counsel
right to enter into a lawful contract
right to equal protection of the law
right to establish a business
right to hold public office
right to join a labor union
right to join a professional association
right to know
right to patent
right to privacy
right to property
Roman Republic
rule of men
Senate
separation of church and state
separation of powers
shared power
Sixteenth Amendment
slander
Social Security
sovereign state
sovereignty
speedy trial
state constitution
state court
state election
state sales tax
state sovereignty
states' rights
suffrage
suffrage movement
Supreme Being
tariff
tax revenue
terrorism
The Federalist Papers
the press
totalitarian system
treason
trial by jury
union
United Nations
United Nations Charter
Universal Declaration of Human Rights
U.S. v. Nixon
veto power
Virgin Islands
vote of no confidence
voter registration
World Council of Churches
World Court
average price level
carrying money
central authority
checking account
command economic system
commercial bank
contract labor
cost of production
credit policy
decentralization
disincentive
earned income
economic incentive
economic indicator
economic specialization
equilibrium
exchange rate
export
exporting firm
finance
foreign exchange market
foreign trade
free trade
fringe benefit
full-time employment
funding
Gross Domestic Product
human capital
human resource
import
inflation
inflation rate
interest
intermediary
labor force
labor market
labor union
large firm
law of supply and demand
market clearing price
market economy
market exchange
national defense spending
national economy
negative incentive
nonprofit organization
non-rival product
opportunity benefit
opportunity cost
output per hour
output per machine
output per unit of land
output per worker
part-time employment
positive incentive
private market
production
productivity
property rights
public project
quota
relative price
rent control
risk reduction
sales tax
savings account
self-employment
self-sufficiency
shared consumption
side effect
special interest group
specialized economic institution
standard currency
standard of living
storing money
substitute product
supplier
surcharge
system of weights and measures
tax deduction
tax exemption
tax reduction
total benefit
total cost
total market value
unemployment
unemployment rate
wage rate
work rule
<table>
<thead>
<tr>
<th>Health, Grades 6-8</th>
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<tbody>
<tr>
<td>abdominal thrust maneuver</td>
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<tr>
<td>adolescence</td>
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<td>alcohol abuse</td>
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<tr>
<td>American Heart Association</td>
</tr>
<tr>
<td>American Lung Association</td>
</tr>
<tr>
<td>anemia</td>
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<tr>
<td>anorexia</td>
</tr>
<tr>
<td>asthma</td>
</tr>
<tr>
<td>bacteria</td>
</tr>
<tr>
<td>body system</td>
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<tr>
<td>bulimia</td>
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<td>cancer</td>
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<td>cardiopulmonary</td>
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<td>resuscitation</td>
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<td>chronic disease</td>
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<tr>
<td>community agency</td>
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<tr>
<td>community health</td>
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<td>conception</td>
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<td>conflict resolution</td>
</tr>
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<td>counseling</td>
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<td>CPR</td>
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<td>cultural belief</td>
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<tr>
<td>denial</td>
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<tr>
<td>dental health</td>
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<tr>
<td>depression</td>
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</tr>
</tbody>
</table>
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
weight control
weight training
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<th>Arts General, Grades 6-8</th>
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<tbody>
<tr>
<td>AB form</td>
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<td>ABA form</td>
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<td>aesthetic criteria</td>
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<tr>
<td>aesthetics</td>
</tr>
<tr>
<td>art medium</td>
</tr>
<tr>
<td>artistic choice</td>
</tr>
<tr>
<td>audience response</td>
</tr>
<tr>
<td>aural element</td>
</tr>
<tr>
<td>body alignment</td>
</tr>
<tr>
<td>breath control</td>
</tr>
</tbody>
</table>
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
<table>
<thead>
<tr>
<th>Music, Grades 6-8</th>
<th>level-2 difficulty</th>
<th>pop</th>
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</thead>
<tbody>
<tr>
<td>articulation</td>
<td>level-3 difficulty</td>
<td>presto</td>
</tr>
<tr>
<td>barbershop quartet</td>
<td>level-4 difficulty</td>
<td>quartet</td>
</tr>
<tr>
<td>bass clef</td>
<td>level-5 difficulty</td>
<td>range</td>
</tr>
<tr>
<td>blues</td>
<td>madrigal</td>
<td>recorder-type instruments</td>
</tr>
<tr>
<td>bow control</td>
<td>mallet instruments</td>
<td>refrain</td>
</tr>
<tr>
<td>chòrdsed zithers</td>
<td>marcato</td>
<td>release</td>
</tr>
<tr>
<td>chorus</td>
<td>melodic embellishment</td>
<td>rhythmic ostinato</td>
</tr>
<tr>
<td>classical</td>
<td>melodic instrument</td>
<td>sight read</td>
</tr>
<tr>
<td>coda</td>
<td>melodic line</td>
<td>sonsa</td>
</tr>
<tr>
<td>composition</td>
<td>melodic ostinato</td>
<td>stick control</td>
</tr>
<tr>
<td>crescendo</td>
<td>melodic phrase</td>
<td>suite</td>
</tr>
<tr>
<td>dynamic change</td>
<td>meter</td>
<td>sympathy</td>
</tr>
<tr>
<td>dynamic level</td>
<td>meter change</td>
<td>symphonic</td>
</tr>
<tr>
<td>harmonic accompaniment</td>
<td>meter signature</td>
<td>syncopation</td>
</tr>
<tr>
<td>harmonic instrument</td>
<td>music in four parts</td>
<td>timbre</td>
</tr>
<tr>
<td>hymn</td>
<td>music in two and three parts</td>
<td>tonality</td>
</tr>
<tr>
<td>instrumental literature</td>
<td>oboe</td>
<td>traditional sound source</td>
</tr>
<tr>
<td>interval</td>
<td>opera</td>
<td>trio</td>
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<tr>
<td>intonation</td>
<td>phrasing</td>
<td>triple meter</td>
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<tr>
<td>jazz</td>
<td>pitch notation</td>
<td>wind instrument</td>
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<tr>
<td>jingle</td>
<td>playing by ear</td>
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</tr>
<tr>
<td>level-1 difficulty</td>
<td>playing position</td>
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</tr>
</tbody>
</table>
Theater, Grades 6-8

archetype  empathy  script
atmosphere  formal production  sensory recall
avocation  informal production  set design
character motivation  locale  staging
characterization  new art forms  study guide
classical  nonlocomotor movement  superhero
constructed meaning  oral element  suspense
direction  physical environment  theater literacy
director  pitch  trickster
dramatic media  playwright  visual element
dramatization  production value  vocal pitch
electronic media  publicity
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
<table>
<thead>
<tr>
<th>Technology, Grades 6-8</th>
<th>Feedback</th>
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</thead>
<tbody>
<tr>
<td>automated machine</td>
<td>file management</td>
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<tr>
<td>bulletin board system</td>
<td>format</td>
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<tr>
<td>capacity</td>
<td>formatting</td>
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<tr>
<td>CD-ROM</td>
<td>function</td>
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<tr>
<td>central processing unit</td>
<td>human-operated machine</td>
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<tr>
<td>computer fraud</td>
<td>icon</td>
</tr>
<tr>
<td>computer hacking</td>
<td>input device</td>
</tr>
<tr>
<td>copyright violation</td>
<td>Internet Service Provider</td>
</tr>
<tr>
<td>data access</td>
<td>Intranet</td>
</tr>
<tr>
<td>data display</td>
<td>invasion of privacy</td>
</tr>
<tr>
<td>data processing</td>
<td>local network system</td>
</tr>
<tr>
<td>data update</td>
<td>malfunction</td>
</tr>
<tr>
<td>decoder</td>
<td>man-made object</td>
</tr>
<tr>
<td>designed object</td>
<td>mismatched</td>
</tr>
<tr>
<td>desktop publishing software</td>
<td>mismatched</td>
</tr>
<tr>
<td>digitized</td>
<td>navigation (Internet)</td>
</tr>
<tr>
<td>disassembly</td>
<td>network</td>
</tr>
<tr>
<td>document formatting</td>
<td>nonphysical object</td>
</tr>
<tr>
<td>e-learning</td>
<td>output</td>
</tr>
<tr>
<td></td>
<td>output device</td>
</tr>
<tr>
<td></td>
<td>programming command</td>
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<tr>
<td></td>
<td>programming language</td>
</tr>
<tr>
<td></td>
<td>record management</td>
</tr>
<tr>
<td></td>
<td>search techniques</td>
</tr>
<tr>
<td></td>
<td>sort techniques</td>
</tr>
<tr>
<td></td>
<td>special purpose program</td>
</tr>
<tr>
<td></td>
<td>specialized machine</td>
</tr>
<tr>
<td></td>
<td>spreadsheet</td>
</tr>
<tr>
<td></td>
<td>steps in the design process</td>
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<tr>
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<td>system failure</td>
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<td>tape drive</td>
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<td></td>
<td>text format</td>
</tr>
<tr>
<td></td>
<td>touch screen</td>
</tr>
<tr>
<td></td>
<td>URL</td>
</tr>
<tr>
<td></td>
<td>virus setting</td>
</tr>
<tr>
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<td>voice recorder</td>
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</table>
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
quartile deviation
radical expression
radical function
radius
random sampling technique
range of function
rational function
real numbers
real-world function
reciprocal
recurrence equation
recurrence relationship
recursive equation
reflection in plane
reflection in space
regression coefficient
regression line
relative error
representativeness of sample
Richter scale
right triangle geometry
roots & real numbers
roots to determine cost
roots to determine profit
roots to determine revenue
rotation in plane
sample statistic
sampling distribution
scalar
series
series circuit
sigma notation
similar figures
sine
sinusoidal function
smallest set of rules
speed
spurious correlation
standard deviation
statistical experiment
statistical regression
statistic
step function
strategy efficiency
strategy generation
technique
subtract radical expressions
successive approximations
summary statistic
surface area cone
surface area cylinder
surface area sphere
synthetic geometry
systems of inequalities
tangent
term
theorem
theorem direct proof
theorem indirect proof
transversal
treatment group
trigonometric ratio
trigonometric relation
truth table proof
two-way tables
U.S. customary system
unit analysis
univariate data
univariate distribution
upper/lower bounds
validity
variance
vector
vector addition
vector division
vector multiplication
vector subtraction
velocity
vertex edge graph
Science, Grades 9-12

abiotic components of ecosystems
accelerator
acid/base reactions
actual mass
advection
age of the universe
Albert Einstein
Alfred Wegener
amino acid sequence
anatomical characteristic
Antoine Lavoisier
atmospheric change
atomic bomb
atomic bonding principles
atomic configuration
atomic energy
atomic mass
atomic motion
atomic nucleus
atomic number
atomic reaction
atomic theory
atomic weight
Avogadro’s hypothesis
Bernoulli’s principle
Big Bang theory
biochemical characteristic
biological adaptation
biological evolution
biological molecule
breakdown of food
molecules
buoyancy
carbon
carbon atom
carbon cycle
carbon dioxide
catalyst
cell function
cell membrane
cell nucleus
cell organelle
cell wall
cellular communication
cellular differentiation
cellular energy conversion
cellular regulation
cellular response
cellular waste disposal
charged object
Charles Darwin
Charles Lyell
chemical bond
chemical organization of organisms
chemical properties of elements
chemical reaction rate
chloroplast
chromatography
chromosome
chromosome pair
composition of the universe
convection
convection current
Copernican revolution
Copernicus
Coulomb’s law
criteria for acceptance
crystalline solid
cytoplasm
data reduction
decay rate
degree of kinship
derived characteristic
disclosure of methods & procedures
DNA
DNA molecule
DNA replication
DNA sequence
DNA structure
DNA subunit
dominant trait
Doppler effect
drag
Earth’s elements
Earth’s external energy sources
Earth’s formation
Earth’s internal energy sources
elasticity
electric force
electric motor
electric potential
electrically neutral
electromagnetic field
electromagnetic force
electromagnetic radiation
electromagnetic spectrum
electromagnetic wave
electron
electron configuration
electron sharing
electron transfer
elementary particle
elements of matter
elimination of matter & energy
elliptical orbits
embryo formation
empirical standards
endothermic reaction
energy requirements of living systems
Enrico Fermi
entropy
enzyme
equal & opposite force
equilibrium of ecosystems
Ernest Rutherford
evidence for the Big Bang Theory
evidence for the expansion of the universe
evidence for the unity among organisms
excitatory molecule
exothermic reaction
experimental method
F=ma
Fahrenheit
filial generation
flow of energy
flow of matter
fluid resistance
foot pound
formation of polymers
fossil fuels
gamma ray
gene encoding
gene expression
general theory of relativity
genetic diversity
genetic mutation
<table>
<thead>
<tr>
<th>vacuole</th>
<th>wave amplitude</th>
<th>weight of subatomic particles</th>
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<tr>
<td>viscosity</td>
<td>wave packet</td>
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<td>water wave</td>
<td>wave source</td>
<td>x-ray</td>
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<td>Term</td>
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<td>-------------------------------------------</td>
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<td>acronym</td>
<td>commercialization</td>
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<td>advertising code</td>
<td>compound adjective</td>
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<td>advertising copy</td>
<td>compound noun</td>
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<tr>
<td>aesthetic purpose</td>
<td>compound personal</td>
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<td>aesthetic quality</td>
<td>pronoun</td>
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<td>allegory</td>
<td>compound-complex</td>
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<tr>
<td>alliteration</td>
<td>sentence</td>
<td></td>
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<tr>
<td>allusion</td>
<td>computer-generated image</td>
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<tr>
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<td>Mediterranean Empire</td>
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<td>Mein Kampf</td>
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<td>Hung-wu emperor</td>
<td>Mesolithic</td>
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<td>mestizo</td>
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<td>Munich Agreement in 1938</td>
<td>Noh drama</td>
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<td>Nazi genocide</td>
<td>Nok terra cotta figure</td>
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<td>nonhominid</td>
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<td>Jamal al-Din</td>
<td>New Granada</td>
<td>one child policy in China</td>
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<td>Japanese invasion of China</td>
<td>New World</td>
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<td>Jewish and Arab inhabitants of Palestine</td>
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<td>Jewish flight to Poland and Russia</td>
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<td>partition of Africa</td>
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<tr>
<td>Jiang Jieshi</td>
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<td>Joan of Arc</td>
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<td>Plato</td>
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<td>John of Plano Carpini</td>
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<td>Joseph II</td>
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<td>poetry of Mirabai</td>
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<td>Latin American revolution</td>
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<td>New World</td>
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<td>Noh drama</td>
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<td>Nok terra cotta figure</td>
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<td>northern Italian city-state</td>
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<td>partition of Africa</td>
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<td>Polish rebellion</td>
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<td>Popul Vuh</td>
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</table>
Thailand
the Congo

*The Interesting Narrative of the Life of Olaudah Equiano*

the Netherlands

*The Prince* by Machiavelli

Teotihuacan

Tiahuanaco society

Trans-Siberian railroad

Treaty of Nanking (1842)

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
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acculturation
agribusiness
agricultural soil
AIDS
airborne emission
air-mass circulation
alluvial fan
Americentric
aquifer
artesian wells
atmospheric pressure cells
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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
choreleth 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
cultural hearth
culture region
cycling of energy
decolonization
deforestation
demographic transition
demography
deployed 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
fanshed
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
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<tr>
<th>Turkey</th>
<th>volcanism</th>
<th>world atmospheric</th>
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<td>voting ward</td>
<td>circulation</td>
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<td>Ukraine</td>
<td>ward</td>
<td>world temperature increase</td>
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<tr>
<td>urban heat island</td>
<td>weathering</td>
<td>zoned use of land</td>
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<td>urban morphology</td>
<td>wilderness area</td>
<td>zoning regulation</td>
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</table>
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
allocation of power  rule  Administration
American constitutional democracy  Cold War  Fourteenth Amendment
Americans with Disabilities Act  collective decision  franchise
Amnesty International  common law  free enterprise
anarchy  communism  free exercise clause
Antarctic Treaty  Communist International  freedom to choose
Anti-Federalist  concurrent power  employment
arbitrary rule  congressional district  freedom to enter into
arbitration  congressional election  contracts
Article I of the Constitution  conservative  fundamental rights
Article I Section 7  constituency  GATT
civil law  Constitutional amendment
civil liberties  constitutional democracy  general welfare
civil rights legislation  constitutionalism  general welfare clause
Civil War amendments  constitutionality of laws  Head Start
civilian review board  consumer product safety  Helsinki Accord
"all men are created equal"  copyright  higher court accord
"clear and present danger"  cruel and unusual  House of Commons
rule  punishment  House of Lords
Cold War  democratic legislature  humanitarian aid
collective decision  Democratic Party  ideology
common law  direct democracy  illegal search and seizure
communism  direct popular rule  immigration policy
civilization  distribution of power  impartial tribunal
civil law  divine law  imperial power
constitutional democracy  divine right  inalienable rights
constitutionalism  domestic tranquility  incorporation
constitutionality of laws  double jeopardy  independent judiciary
consumer product safety  equal protection clause  independent regulatory
copyright  evidence  agency
Cruel and unusual punishment  E Pluribus Unum  International Monetary
punishment  double jeopardy  Fund
E Pluribus Unum  E Pluribus Unum  jingoism
English Bill of Rights  electoral system  judicial review
enlightenment  eminent domain  junta
Equal Rights Amendment  establishment clause  jurisdiction
established religion  estate tax  legislation
establishment clause  ethnicity  legislative districting
estate tax  European Union  legitimacy
ethnicity  excise tax  libel
European Union  exclusionary rule  liberal
European Union  Federal Communications
Federal Communications Commission  liberalism
Federal Reserve  Federal Reserve  Lincoln's "House Divided"
Federal Reserve  Federal Reserve  litigation
Federal Reserve  Federal Reserve  lobbying
Federal Reserve  Federal Reserve  Magna Carta
market economy
Marshall Plan
monarchy
Monroe Doctrine
moral obligation
Most Favored Nation
Agreements
multilateral agreement
multinational corporation
NAFTA
National Education Association
national interest
nationalism
natural law
natural rights
Ninth Amendment
Northwest Ordinance
op-ed page
Organization of American States
organized crime
organized labor
patent
perjury
personal autonomy
political cartoon
political culture
political efficacy
political ideology
political philosophy
political rights
popular will
power of the purse
power to declare war
primary election
private domain
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
self-determination
self-evident truths
service group
sexual harassment
social contract
social equity
social issue
social welfare
Sojourner Truth’s "Ain’t I a Woman?"
state bill of rights
statute law
supremacy clause
system of checks and balances
Tenth Amendment
term limitation
third party
time, place, manner
restrictions
two-party system
unenumerated rights
UNICEF
union movement
unitary government
urban decay
urban riot
vigilantism
warrant
“We the People…”
winner-take-all system
Woodrow Wilson’s “Fourteen Points”
World Bank
World War I
World War II
zoning
absolute advantage
aggregate demand
aggregate supply
allocation method
bait and switch
balanced budget
budget constraint
budget deficit
budget surplus
business deduction
capital stock
capitalism
circulation of money
collective bargaining
collusion
communism
comparative advantage
complementary product
consumer fraud
Consumer Price Index
cconsumer spending
cconsumer tastes
cooperative
corporate spending
cost-benefit ratio
cost-push inflation
current interest rate
cyclical unemployment
default on a loan
deferral of loan
deficit
deflation
demand-pull inflation
demand curve
depression
deregulation
discount rate
disposable income
dow Jones
durable goods
economic risk
economic theory
economics
elasticity
expected rate of inflation
expenditure
externalities
Federal Reserve System
federal spending
federal tax revenue
financial institution
fiscal policy
fixed income
fixed rate of interest
free enterprise
frictional employment
frictional unemployment
functional distribution of income
government directive
government employee
government security
government spending
grant
home office
income distribution
incorporation
interest payment
interest rate
labor force immobility
large-scale investment
liability rules
macroeconomics
marginal benefit
marginal cost
marketplace
maximum employment
medical coverage
medical expenditure
microeconomics
monetary policy
money supply
monopoly
national debt
national government
spending
natural monopoly
negative externality
net export
nominal Gross Domestic Product
nominal interest rate
nondurable goods
nonexclusion
nonprice competition
oligopoly
open market purchase
payroll tax
per capita GDP
personal distribution of income
personal income
physical capital
positive externality
prevailing price
price ceiling
price control
price floor
price stability
private investment spending
production cost
production method
production output
property tax
proprietor’s income
public service commission
public welfare
public works
real cost
real GDP
real interest rate
recession
redistribution of income
regulation
rental income
research and development
reserve requirement
return on investment
seasonal unemployment
service charge
shareholder
shift in demand curve
shift in supply curve
social security
social security withholding
socialism
speculation
standard measure (of unemployment rate)
standard measures
standard weights
state revenue
stock
stock market
stockholder
structural unemployment
subsidy
supply curve
tariffs
tax revenue
telecommuting
transaction cost
transfer payment
transportation cost
underground economy
virtual company
Wall Street
warranty
work experience
workers’ compensation
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abstinence
advocacy service
alcohol dependency
antioxidant
assertive consumerism
benign
biopsy
breast examination
caffeine dependency
carcinogenic
child-care center
child abuse
cirrhosis
clinical depression
cocaine
communicable disease
conflict prevention strategy
consumer health service
coping strategy
date rape
dating relationship
degenerative disease
diet aid
dietary supplement
drug-related problem
drug of choice
DSS regulation
emotional health
environmental health
environmental tobacco
smoke
EPA
fad diet
family intervention
FDA
federal agency
female sexuality
fetus
food-production control
gender differences
遗传性
health-care product
health insurance
household-waste disposal
immune system
inhalants
interpersonal conflict
life cycle
male sexuality
malignant
marijuana
medical history
melanoma
middle age
needle sharing
nicotine
nutrition plan
OSHA
osteoporosis
paranoia
pathogen
penis
perinatal care
prenatal care
psychotherapy
refuse
regular examination
rehabilitation
reproduction
Right to Know law
sexual activity
social isolation
state agency
substance abuse
teenage pregnancy
testicle
tobacco dependency
vagina
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<tr>
<th><strong>Physical Education, Grades 9-12</strong></th>
<th>extracurricular sport</th>
<th>progression principle</th>
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<tr>
<td>abdomen</td>
<td>fast-twitch muscle</td>
<td>progressive overload</td>
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<tr>
<td>aquatics</td>
<td>health-enhancing level of fitness</td>
<td>rate of perceived exertion</td>
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<td>autonomous phase of learning</td>
<td>international competition</td>
<td>respiratory efficiency</td>
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<td>ballistic stretching</td>
<td>interval training</td>
<td>reversibility</td>
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<td>biomechanics of movement</td>
<td>law of specificity</td>
<td>sedentary lifestyle</td>
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<td>body composition</td>
<td>leadership role</td>
<td>situational awareness</td>
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<td>cardiovascular efficiency</td>
<td>mental imagery</td>
<td>slow-twitch muscle</td>
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<td>center of gravity</td>
<td>overload principle</td>
<td>specificity principle</td>
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<td>circuit training</td>
<td>personal fitness program</td>
<td>sport facility</td>
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<td>equilibrium</td>
<td>physiological factor</td>
<td>sport psychology</td>
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<td>static balance</td>
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<td>static stretch</td>
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### Arts General, Grades 9-12

<table>
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<tr>
<th>Artistic Process</th>
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<th>Technique</th>
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<td>Contemporary Music</td>
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<td>Unity of the Arts</td>
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<tr>
<td>Craftsmanship</td>
<td>Media</td>
<td>Universal Concept</td>
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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
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<th>Music, Grades 9-12</th>
<th>accelerando</th>
<th>decrescendo</th>
<th>point of climax</th>
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<tr>
<td>acoustic instrument</td>
<td>dissonance</td>
<td>register</td>
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<tr>
<td>alla breve</td>
<td>duple meter</td>
<td>retrograde</td>
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<td>allegro</td>
<td>expressive device</td>
<td>rhythmic phrase</td>
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<tr>
<td>andante</td>
<td>instrumental score</td>
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<tr>
<td>Broadway musical</td>
<td>instrumentation</td>
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<td>chord progression</td>
<td>inversion</td>
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<tr>
<td>compositional device</td>
<td>oratorio</td>
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<tr>
<td>compositional technique</td>
<td>ostinato</td>
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<td>consonance</td>
<td>pentatonic melody</td>
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<td>contour</td>
<td>pentatonic tonality</td>
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</table>
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
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

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

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