
Seventh Grade

Math

Power Verbs

Number, Number Sense and Operations Standard

Analyze	Develop	Represent	Use
Demonstrate	Explain	Simplify	
Describe	Explain	Solve	

Measurement Standard

Analyze	Describe	Estimate	Solve
Convert	Develop	Select	Understand

Geometry and Spatial Sense Standard

Apply	Determine	Express	Use
Demonstrate	Develop	Identify	
Describe	Draw	Perform	

Patterns, Functions and Algebra Standard

Analyze	Explain	Recognize	Use
Create	Justify	Represent	

Data Analysis and Probability Standard

Analyze	Construct	Interpret
Compare	Create	Make
Compute	Identify	Read

Seventh Grade

Math

Key Terms and Concepts

Number, Number Sense and Operations Standard

0	negative	place value
absolute value	non-repeating decimals	powers of 10
algorithms	non-terminating decimals	properties
decimals	numerical expressions	rational numbers
exponents	order of operations	repeating decimals
fractions	percents	scientific notation
integers	perfect squares	square roots
irrational numbers		terminating decimals

Measurement Standard

area	parallelograms	square feet to square yards
circles	prisms	surface area
composite shapes	proportional reasoning	three-dimensional object
cubic meters to cubic centimeters	proportional relationships	trapezoids
cylinders	reference table	triangles
degree of precision	revolutions per minute	units for measuring
derived measurements	scale factors	units of area
different volumes	scale models	units of volume
measurement system	sectors	volume
miles per hour		

Seventh Grade

Math

Key Terms and Concepts

Geometry and Spatial Sense Standard

angles	proportional reasoning	sides
attributes	Pythagorean Theorem	similar figures
congruence of triangles	quadrilaterals	subset
congruent	reflections	sufficient properties
congruent figures	right triangles	three-dimensional object
congruent triangles	rotation symmetry	translations
dilations	rotations	triangle angle sum relationships
line symmetry	scale factors	two-dimensional figure
properties of triangles	set of properties	

Patterns, Functions and Algebra Standard

algebraic expression	linear and simple nonlinear relationships	numerical patterns
coordinate plane		patterns
equivalent		plotting points
graphing calculators	linear equations	simplified expression
graphs	linear progressions	tables
inequalities	nonlinear progressions	variable
inverse operations	number line	visual representations

Data Analysis and Probability Standard

box-and-whisker plots	inclusion of outliers	other media
circle graph	measures of center (mean, mode, median)	predictions
compare actual results to predicted results		probabilities
compound events	measures of spread (range, quartile, interquartile range)	sample selection
exclusion of outliers		scale
explain differences	misuses of statistical data	stem-and-leaf plots
histogram		theoretical probabilities

Seventh Grade

Reading/Writing

Power Verbs

Phonemic Awareness, Word Recognition, and Fluency

Fluency continues to develop past the primary grades.

Acquisition of Vocabulary

Apply	Determine	Infer	Recognize
Define	Identify	Interpret	

Reading Process:

Concepts of Print, Comprehension Strategies and Self-Monitoring Strategies

Establish	List	Select
Hypothesize	Predict	Summarize

Reading Applications: Informational, Technical and Persuasive Text

Analyze	Assess	Compare	Identify
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Reading Applications: Literary Text

Analyze	Explain	Identify	Interpret
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Writing Processes

Apply	Develop	Group	Rearrange
Conduct	Establish	Organize	Vary
Determine	Generate	Proofread	

Seventh Grade

Reading/Writing

Power Verbs

Writing Applications

Produce Write

Writing Conventions

Spell Use

Research

Analyze	Identify	Select
Generate	Integrate	

Communication: Oral and Visual

Adjust	Demonstrate	Identify	Vary
Deliver	Draw	Interpret	

Seventh Grade

Reading/Writing

Key Terms and Concepts

Phonemic Awareness, Word Recognition, and Fluency

Fluency continues to develop past the primary grades.

Acquisition of Vocabulary

abbreviation	denotation	roots
acronyms	dictionary	simile
affixes	example	suffix
analogy	glossary	symbols
Anglo-Saxon	Greek	synonyms
antonyms	Latin	textual features
connotation	meaning	thesaurus
context clues	metaphor	unknown words
definition	prefix	whole words
definitional footnotes	pronunciation	word origin
definitional sidebars	restatement	

Reading Process:

Concepts of Print, Comprehension Strategies and Self-Monitoring Strategies

author's style	inferential questions	read to understand
contradictions	key ideas	reading on
critical comparisons	literal content	references
details	literal questions	scanning
evaluative questions	looking back	skimming
gaps	note taking	summarizing
graphic organizers	purposes for reading	supporting details
hypothesize	read to enjoy	synthesizing questions
implied content	read to find out	text
independent reading materials	read to interpret	textual examples
	read to solve problems.	visual media

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Reading/Writing

Key Terms and Concepts

Reading Applications: Informational, Technical and Persuasive Text

accuracy of details	different sources of	search engines
adequacy of details	information	subheading
appendix	fact and opinion	summary
author's argument	graphs	table of contents
author's purpose	headings	tables
for writing	index	viewpoint
books	magazines	writing to entertain
cause and effect	maps	writing to explain
chapter titles	newspapers	writing to inform
charts	online resources	writing to persuade
cutaways	online tools	
diagrams	scope	

Reading Applications: Literary Text

autobiographies	incident	patterns
biographies	literary forms	plot
character vs. nature	literary genres	poetry
character vs. self	main character	point of view
character vs. society	main events	setting
characters	meaning	subjective point of view
conflict	minor character	symbols
culture	minor events	syntax
drama	mood	themes
era	myths	voice
fiction	non-fiction	word choice
figurative language	objective point of view	

Seventh Grade

Reading/Writing

Key Terms and Concepts

Writing Processes

audience	feedback	rough outlines
background reading	format	rubric
body	fragments	run-ons
capitalization	grammar	simple sentence structures
charts	graphics	spacing
checklist	graphs	spelling
clarity	interviews	stated central idea
clear main idea	introduction	style
closing statement	maps	summary of important ideas and details
columns	margins	surveys
complex sentence structures	organizational strategies	tabs
compound sentence structures	paragraphs	thesaurus
diagrams	principles of design	thesis statement
dictionary	publication	transitional words
drawings	punctuation	Venn diagrams
edit	purpose	webs
electronic resources	reference materials	
	resolution of plot	
	resources	

Writing Applications

business letter format	informal writings	poems
characters	(journals, notes, and poems)	point of view
critique	informational essays	position
details	letters	purpose
dialogue	narratives	responses
examples	novels	sensory details
facts	persuasive essays	setting
focus	plot	stories

Seventh Grade

Reading/Writing

Key Terms and Concepts

Writing Conventions

adverbs	indefinite pronouns	prefixes
apostrophes	independent clause	preposition
brackets	interjection	prepositional phrases
capitalization	intransitive	pronouns
collective nouns	irregular verbs	quotation marks
commas	linking verbs	regular verbs
compound subjects	misspelled words	relative pronouns
conjunctions	nominative case pronouns	roots
contractions	nouns	semi-colons
dashes	objective case pronouns	subject-verb agreement
dependent clause	parts of speech	suffixes
end marks	perfect tenses	transitive
high-frequency words	possessive pronouns	verbs
hyphens		

Research

bibliography	language	primary source
charts	notes	publication date
coverage	online databases	quotations
electronic resources	open-ended questions	secondary source
elements of validity	outlines	sources
graphic organizers	paraphrase	tables
Internet-based resources	points of view	works cited

Seventh Grade

Reading/Writing

Key Terms and Concepts

Communication: Oral and Visual

active listening	events	position
strategies	evidence	presentations
anecdotes	examples	problem-solution
appropriate visual	expository	purpose
materials	facts	quotations
asking focused questions	formal	relevant
audience	glittering generalities	research
bait and switch	ideas	responding to cues
bandwagon	illustrations	sources
body	informal	speaker's purpose
cause-effect	information	statistics
charts	informational	stories
clear diction	presentations	tempo
common organizational	introduction	testimonial
structures	logical sequence	to entertain
compare-contrast	main idea	to inform
conclusion	making visual contact	to persuade
descriptive presentation	opinions	tone
details	oral presentations	visual media
diagrams	personal experience	volume
emotional word	persuasive techniques	
repetition	pitch	

Seventh Grade

Science**Power Verbs**

Earth and Space Sciences

Analyze	Determine	Make
Describe	Explain	

Life Sciences

Explain	Investigate	Summarize
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Physical Sciences

Describe	Explain	Identify	Trace
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Science and Technology

Describe	Design	Explain	Recognize
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Scientific Inquiry

Analyze	Explain	Identify
Choose	Formulate	

Scientific Ways of Knowing

Describe	Show
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Seventh Grade

Science

Key Terms and Concepts

Earth and Space Sciences

agricultural process	groundwater	specific location
air	hospitable	station model
alpine	hurricane	temperature
atmosphere	hydrosphere	tornado
biochemical cycles	industrial process	transfer of energy
biomes	lakes	tundra
climatic zones	land	unavailable
depleted	lithosphere	unsuitable
desert	local weather	water
drought	measurements	water cycle
environmental quality	national weather	weather maps
flood	polluted	weather predictions
forests	precipitation	weather-related
fresh water	recycle	phenomenon
global warming	regional weather	
grasslands	rivers	

Life Sciences

abiotic resources	forest succession	parasitism
adapted	human activity	photosynthetic cells
animals	hurricane	plants
biotic resources	interact	pond succession
body plans	internal structures	populations
chemical energy	life functions	predator
commensalism	light	prey
consumers	multicellular organisms	roads
decomposition	mutualism	soil
diversity	natural occurrences	solar energy
ecosystem	oil spills	symbiotic relationships
environmental changes	organisms	transfer of energy
fire	overpopulation	water

Seventh Grade

Science

Key Terms and Concepts

Physical Sciences

acoustic	forms of energy	position
chemical	kinetic energy	potential energy
chemical composition	matter	radiant
constant	mechanical	simple closed system
electrical	motion	thermal
energy transformation	nuclear	

Science and Technology

attitudes	environmental effects	technological
build a product	limits of cost and time	development
constraints	for design and	technology
create a solution	production	values
economic concerns	needs	
environmental concerns	supply of materials	

Scientific Inquiry

controls	mathematical	science concepts
density	relationships	scientific investigation
dependent variable	misinterpret	speed
faulty reasoning	physical phenomena	variables
given set of data	predictions	
independent variable	safety procedures	

Scientific Ways of Knowing

creativity	reasoning	reproducibility of results
human abilities	reduce bias	skepticism
human qualities	repetition of an	
openness	experiment	

Seventh Grade

Social Studies

Power Verbs

History

Describe Explain Group

People in Societies

Analyze Describe Explain

Geography

Describe Explain Identify

Economics

Compare Describe

Government

Compare Describe

Citizenship Rights and Responsibilities

Describe Explain

Social Studies Skills and Methods

Compare Describe Establish Reflect

Seventh Grade

Social Studies

Key Terms and Concepts

History

1000 B.C.	feudalism	printing
the Americas	Ghana	products
architecture	government	Reformation
art	Greece	Renaissance
Asia	imperialism	Rome
broadly defined historical eras	India	scientific advancements
China	institutions	slavery
citizenship	literature	social characteristics of feudalism
colonialism	Mali	Songhay
Crusades	mercantilism	spread of Arabic language
cultural advancements	Middle Ages	spread of Islam
early civilizations	military conquests	spread of religions
economic characteristics of feudalism	Mongol invasions	sub-Saharan Africa
Egypt	moveable type	systems of labor
enduring impact	multiple-tier time lines	trade routes
Europe	Muslim	West African empires
European exploration	new ideas	
	political characteristics of feudalism	

People in Societies

African civilization	cultural legacies	Roman civilization
Arab civilization	cultural practices	science
art	European civilization	scientific legacies
belief systems	Greek civilization	Silk Road
Chinese civilization	language	systems of government
Crusades	perspectives	technology

Seventh Grade

Social Studies

Key Terms and Concepts

Geography

culture	human features	region
geographic factors	map	technological innovations
geographic processes	physical characteristics	trade
historical events	physical features	war
human characteristics	places	

Economics

endowment	paper	specialization
growth of cities	precious metals	spices
interdependence	productive resources	textiles
inventions	products	trade
new crops	role of merchants	trade routes

Government

ancient times	empires	representative democracy
Athens	kingdoms	Roman republic
city-states	Middle Ages	United States
direct democracy		

Citizenship Rights and Responsibilities

direct democracy	participation of citizens	rights
Magna Carta	representative democracy	
monarchy		

Social Studies Skills and Methods

frames of reference	perspectives	today's norms
guidelines	rules	today's values
multiple viewpoints	time lines	