
Fourth Grade

Math

Power Verbs

Number, Number Sense and Operations Standard

Analyze	Develop	Identify	Solve
Connect	Estimate	Recognize	Use
Demonstrate	Explain	Round	

Measurement Standard

Demonstrate	Develop	Make	Select
Describe	Identify	Relate	Write

Geometry and Spatial Sense Standard

Describe	Identify	Specify	Use
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Patterns, Functions and Algebra Standard

Analyze	Construct	Describe	Represent
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Data Analysis and Probability Standard

Compare	Create	List	Represent
Conduct	Describe	Place	Use
Construct	Identify	Propose	
Count	Interpret	Relate	

Fourth Grade

Math

Key Terms and Concepts

Number, Number Sense and Operations Standard

1-digit numbers	division	multiplying
2-digit numbers	equivalent forms	multi-step problems
addition	factors of whole numbers	place value structure
associative property		prime numbers
base-ten number system	fractions	rectangles
composite numbers	given place value	remainders
computations	making change	subtraction
counting money	mental math	ten tenths
decimals	millions	thousandths
denominators	multiples of ten	whole numbers
distributive property	multiples of whole numbers	
dividing	multiplication	

Measurement Standard

area	irregular shapes	regular shapes
centimeters	kilograms to grams	square centimeters
cubes	links	square inches
cubic centimeters	measurement	string
cubic inches	measurement system	tiles
grid	object	unit conversions
inches	perimeter	units
inches to feet	quarts to gallons	volume

Fourth Grade

Math

Key Terms and Concepts

Geometry and Spatial Sense Standard

acute triangles	isosceles triangles	rectangles
angle measures	line segments	reflections (flips)
area	lines	right triangles
attributes	obtuse triangles	rotations (turns)
border	ordered pairs	scalene triangles
congruent	parallel lines	side lengths
coordinate plane	parallelograms	similarities
differences	perimeter	squares
equiangular triangles	perpendicular lines	transformations
equilateral triangles	planes	translations (slides)
first quadrant points	points	trapezoids
intersecting lines	quadrilaterals	triangles

Patterns, Functions and Algebra Standard

change	graphs	tables
equations	inequalities	variable
functions	patterns	
generalizations	table of values	

Fourth Grade

Math

Key Terms and Concepts

Data Analysis and Probability Standard

bar graphs	holes in the data	numerical value of 1 (certain)
certain	impossible	possible outcomes
certain-to-happen events	impossible events	predictions
chance of each event occurring	in order of likelihood	probability
chance situations	likely	range
clumps of data	line graphs	set of data
combinations	line plots	tables
conclusions	median	unlikely
data	mode	Venn diagrams
equal	numerical value of 0 (impossible)	

Fourth Grade

Reading/Writing

Power Verbs

Phonemic Awareness, Word Recognition, and Fluency

Fluency continues to develop past the primary grades.

Acquisition of Vocabulary

Determine	Identify	Recognize	Use
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Reading Process:

Concepts of Print, Comprehension Strategies and Self-Monitoring Strategies

Compare	Establish	Predict
Create	List	Summarize

Reading Applications: Informational, Technical and Persuasive Text

Distinguish	Identify	Locate	Summarize
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Reading Applications: Literary Text

Describe	Determine	Explain	Identify
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Writing Processes

Create	Generate	Rearrange	State
Develop	Organize	Reread	Vary

Fourth Grade

Reading/Writing

Power Verbs

Writing Applications

Produce Write

Writing Conventions

Spell Write

Research

Create Discuss Identify Locate

Communication: Oral and Visual

Adjust Demonstrate Recall
Deliver Distinguish

Fourth Grade

Reading/Writing

Key Terms and Concepts

Phonemic Awareness, Word Recognition, and Fluency

Fluency continues to develop past the primary grades.

Acquisition of Vocabulary

abbreviations	homophones	suffixes
antonyms	meanings	synonyms
connotation	metaphors	technology
context clues	paragraph clues	textual features
definitional footnotes	prefixes	unknown words
denotation	pronunciations	word clues
dictionaries	roots	word origins
glossaries	sentence clues	
homographs	sidebars	
homonyms	similes	

Reading Process:

Concepts of Print, Comprehension Strategies and Self-Monitoring Strategies

comprehension	literal questions	textual evidence
conclusions	looking back	textual information
criteria	non-text resources	theme
electronic media	predictions	to enjoy
evaluative questions	print texts	to find out
familiar plot patterns	purposes for reading	to interpret
graphic organizers	reading on	to solve problems
important information	scanning	to understand
inferences	skimming	topic
inferential questions	text resources	visual media
information	text structures	vocabulary

Fourth Grade

Reading/Writing

Key Terms and Concepts

Reading Applications: Informational, Technical and Persuasive Text

books	important details	online resources
cause and effect	inferences	opinion
chapter headings	informational text	procedures
charts	instructions	sources of information
conclusions	magazines	supporting details
diagrams	main ideas	table of contents
fact	maps	title page
graphs	newspapers	topic

Reading Applications: Literary Text

chapter books	interactions	resolution
characteristics	literary forms	senses
characters	literary genres	setting
drama	literary works	similes
fables	main incidents	speaker
fantasies	major conflict	stated theme
fiction	metaphors	third-person narration
figurative language	mood	thoughts
first-person narration	non-fiction	word choice
idioms	plot sequence	words
implied theme	poetry	

Fourth Grade

Reading/Writing

Key Terms and Concepts

Writing Processes

audience for writing	extraneous information	rubric
author's chair	feedback	run-on sentences
body	fragments	sentences
brainstorming	grammar	simple sentence structures
capitalization	important ideas	spelling
checklist	indentation	style
clarity	introduction	summary
closing statement	language	supporting sentences
complex sentence structures	lists	text
compose	main idea	topic sentences
compound sentence structures	organizational strategies	transitional phrases
descriptive details	paragraphs	transitional words
descriptive words	plot	Venn diagrams
details	printed material	webs
dictionaries	punctuation	writer's circle
discussions	purpose for writing	writing ideas
effective vocabulary	reference materials	
	resolution	

Fourth Grade

Reading/Writing

Key Terms and Concepts

Writing Applications

body	informational reports	poems
characters	journals	point of view
closing	letter format	prior knowledge
closure	letters of request	salutation
date	literary work	sequence events
descriptive details	logical order	setting
examples	messages	signature
facts	narratives	specific references
formal letters	notes	stories
important details	novels	thank-you notes
informal letters	original text	vivid language
informal writings	plot	

Writing Conventions

adverbs	irregular verbs	prepositions
apostrophes	legibly	present tense
capitalization	letters	pronouns
commas	nominative case	quotation marks
conjunctions	pronouns	regular verbs
cursive	nouns	roots
end marks	objective case pronouns	sentences
future tense	parts of speech	subject-verb agreement
high-frequency words	past tense	suffixes
inflectional endings	plurals	verbs
interjections	prefixes	
irregular plural nouns	prepositional phrases	

Fourth Grade

Reading/Writing

Key Terms and Concepts

Research

categories	list of sources	school library catalogs
charts	multimedia reports	sources
electronic resources	online databases	tables
gathering information	oral reports	topic
graphic organizers	plagiarism	visual reports
Internet-based resources	questions for research	written reports

Communication: Oral and Visual

active listening strategies	formal descriptive presentations	speaker's opinions
anecdotes	illustrations	statistics
audience	informal descriptive presentations	stories
body	informational presentations	supporting details
charts	introduction	technology
clear focus	logical sequence	tempo
conclusion	main idea	tone
cues	presentations	verifiable facts
details	purpose	visual contact
diagrams	quotations	visual materials
diction	relevant facts	visual media
examples	research	volume
expository		
focused questions		

Fourth Grade

Science

Power Verbs

Earth and Space Sciences

Describe	Identify	Record
Explain	Investigate	Trace

Life Sciences

Classify	Explore	Relate
Compare	Observe	

Physical Sciences

Compare	Describe	Explain	Identify
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Science and Technology

Describe	Explain	Investigate
Evaluate	Illustrate	

Scientific Inquiry

Analyze	Describe	Develop	Formulate
Conduct	Design	Explain	Select

Scientific Ways of Knowing

Differentiate	Record
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Fourth Grade

Science

Key Terms and Concepts

Earth and Space Sciences

air	erosion	rapid processes
barometric pressure	evaporation	reshape
calendar	fog	slow processes
characteristic landforms	freezing	snow
cirrus	glacial moraines	space
cloud conditions	hail	stratus
clouds	landslides	temperature
condensation	local weather	thawing
cumulonimbus	information	volcanic eruptions
cumulus	map	water
deltas	measurable quantities	weather patterns
deposition	melting	weathering
different forms	mountain building	west
dunes	plant growth	wind
earthquakes	precipitation	wind direction
east	precipitation symbols	wind speed
eroding	rain	

Life Sciences

characteristics	life cycles	roots
common plants	maturity	seeds
death	nature of	specific functions
depend	the environment	stems
flowers	organisms	survival
fossils	plant structures	tree leaves
germination	plants	
growth	reproduction	

Fourth Grade

Science

Key Terms and Concepts

Physical Sciences

bending of metal	gas	simple chemical change
change is reversible	heating	solid
chemical properties	liquid	states
combining	matter	temperature
cooling	physical change	
distinct physical properties	properties of materials	
	rubbing	

Science and Technology

agriculture	human lives	technology
communication	improved	transportation
design process	manufacturing	wants
entertainment	needs	
healthcare	nutrition	

Scientific Inquiry

daily cycles	length	seasonal cycles
data	metric units	series of events
English units	occurrence	temperature
infer	patterns	volume
instructions	safety procedures	weight

Scientific Ways of Knowing

conclusions	discrepancies	opinion
confirmed	fact	reasonable explanation
data		

Fourth Grade

Social Studies

Power Verbs

History

Construct	Describe	Explain	Show
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People in Societies

Describe	Explain
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Geography

Compare	Explain	Measure
Describe	Identify	Use

Economics

Explain	Identify	Suggest
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Government

Explain

Citizenship Rights and Responsibilities

Describe	Explain
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Social Studies Skills and Methods

Communicate	Distinguish	Identify	Obtain
Describe	Formulate	Interpret	Read

Fourth Grade

Social Studies

Key Terms and Concepts

History

American Indians	frontier wars of the	settlement patterns
Battle of Fallen Timbers	1790s	significant events
canals	Garrett Morgan	statehood
causes	Granville Woods	terms
centuries	inventors	territory
Charles Kettering	Northwest Ordinance	Thomas Edison
decades	Ohio	time lines
earliest settlements	political status	United States
economic status	prehistoric peoples	Wright Brothers
effects	progressed	years
evenly spaced intervals	railroads	

People in Societies

Adena	European settlements	mining
Africa	expansion	Ohio
African-Americans	family ties	Ottawa
agriculture	Fort Ancient	Paleo Indians
American Indians	freedom	political oppression
Amish populations	historic Indians of Ohio	products
Appalachian populations	Hopewell	recent immigrants
Archaic Indians	late prehistoric Indians	religious oppression
Asia	Latin America	Shawnee
cultural practices	manufacturing	Woodland Indians
Delaware	Miami	Wyandot
European immigrants	Mingo	

Fourth Grade

Social Studies

Key Terms and Concepts

Geography

agricultural regions	glaciation	physical features
Appalachian Plateau	glass	place
bodies of water	human activity	Plains
bordering states	human features	population
building dams	human settlement	regions
building farms	Identify	relative location
building towns	intermediate directions	resources
building transportation systems	Lake Erie	rivers
capital city	landforms	road maps
cardinal directions	linear scale	rubber
climate	location	steel
development of cities	manufacturing regions	transportation
development of industries	map	use of forests
distance	mining regions	use of wetlands
economic characteristics	natural resource maps	using fertilizers
elevation maps	oil	using herbicides
environmental characteristics	patterns of economic activity	using pesticides
environmental processes	patterns of movement	vegetation
forestry regions	patterns of settlement	weathering
	physical environment	

Fourth Grade

Social Studies

Key Terms and Concepts

Economics

entrepreneurs	markets	profits
income	opportunity costs	risks
market for goods and services from other countries	production of goods and services	specialization
	productive resources	

Government

applies the law	General Assembly	power
authority	governor	rights of individuals
decide issues	guarantees	select leaders
democratic constitution	interprets the law	three branches of government
enforces laws	judicial branch	
executive branch	legislative branch	
framework	Ohio Supreme Court	

Citizenship Rights and Responsibilities

citizens	honesty	reliability
civic responsibilities	leadership	respect for the rights of others
common good	participating in civic and service organizations	taking advantage
communicating with officials	performing voluntary service	voting
courage	personal responsibilities	wisdom
desirable qualities	public service	
fairness		

Fourth Grade

Social Studies

Key Terms and Concepts

Social Studies Skills and Methods

acknowledgement of sources	encyclopedias	opinion
advantages of options	fact	pictographs
archaeologists	factual information	primary source
atlases	focus research	print sources
bar graphs	gathering information	problem-solving/ decision-making process
choosing and implementing a solution	glossary	relevance of information
considering options	historians	relevant information
developing criteria for judging the effectiveness of a solution	identifying a problem	research topic
dictionaries	index	secondary source
disadvantages of options	interpret the past	state issues
electronic sources	line graphs	study the past
	listing options	supporting details
	main ideas	tables
	multimedia/electronic sources	
	newspapers	