



Summary of 3rd Grade Standards

What your 3rd grader is expected to learn

APS invites you to get familiar with the content standards your child should master this year. The complete text for State and District standards can be found at www.aps.edu.
(Please note: Examples are provided to illustrate concepts, but are not meant as a complete list.)

READING

Read 3rd Grade Texts Fluently & with Understanding

- ☞ Use many strategies to read & comprehend:
 - Letter sounds
 - Related words
 - Adjust reading speed
 - Self correct
 - Summarize main ideas
- ☞ Increase vocabulary through:
 - Reading, listening & interacting
 - Reference materials
 - Knowledge of related words
- ☞ Read aloud with rhythm, pace & intonation

Understand, Analyze & Interpret What's Read

- ☞ Make connections between what's read & personal experience & knowledge
- ☞ Actively read a variety of text (*fiction, non-fiction, poetry, drama*)
- ☞ Set a purpose
- ☞ Preview the text & make predictions
- ☞ Ask questions
- ☞ Analyze what is read (*problem - solution, cause - effect*)
- ☞ Recognize character types (*hero, villain*)
- ☞ Discuss similarities & differences of events & characters in different books
- ☞ Draw conclusions about characters & events
- ☞ Locate information & answer questions

WRITING

Write Clearly and Effectively

- ☞ Use elements of effective writing (*idea, organization, voice (tone), word choice, sentence flow & conventions*)
- ☞ Plan & compose fiction, non-fiction, poetry & drama (*stories, reports, essays, letters, journals*)
- ☞ Write for different purposes & audiences
 - Describe • Narrate • Express
 - Explain • Persuade • Analyze
- ☞ Revise to:
 - Clarify ideas
 - Add descriptive words & phrases
 - Sequence ideas & events
 - Combine short, related sentences
 - Strengthen word choice
- ☞ Edit for writing conventions:
 - Penmanship
 - Spelling
 - Grammar
 - Capitalization
 - Punctuation
 - Sentence type variety
- ☞ Write responses to different types of text

RESEARCH

Locate • Gather • Record • Organize • Present

- ☞ Use print & electronic resources to gather information
- ☞ Explain choice of materials used
- ☞ Use reference materials to support discovery & meaning (*glossary, dictionary*)

SPEAKING, LISTENING & VIEWING

Improve Communication Skills: Reflect & Respond

- ☞ Use speaking type to suit audience & purpose (*describe, narrate, express, explain, persuade, analyze*)
- ☞ Present information in a logical & organized manner
- ☞ Identify the main point
- ☞ Relate topic to own experience & ideas
- ☞ Explain & discuss what was learned
- ☞ Use correct grammar & word usage
- ☞ Use active listening skills
- ☞ Follow multi-step instructions

SOCIAL STUDIES

People • Events • Cultures • Interactions • Citizenship

History

- ☞ Describe how the lives & contributions of people in New Mexico have influenced the community & region over time
- ☞ Identify & compare elements of a community
- ☞ Use information to put historic information in sequence

Geography

- ☞ Use knowledge of maps & map tools
- ☞ Identify ways people change their environment & the impact of those changes (*clear trees, build roads*)
- ☞ Describe parts of the earth's biosystems (*air, land, water, plants, animals*)
- ☞ Describe how earth's features were formed (*mountains, lakes, arroyos*)

Civics & Government

- ☞ Explain the purposes & functions of local government (*make laws, provide water, roads*)
- ☞ Describe how symbols, songs & traditions reflect cultures
- ☞ Explain & compare how laws & rules are made (*by local, tribal, national governments*)
- ☞ Describe how the majority protects the rights of minorities
- ☞ Explain the process & importance of voting
- ☞ Explain the importance of cooperation & participation in the classroom & community

Economics

- ☞ Understand that resources are made into a variety of products
- ☞ Recognize that the U.S. has a free enterprise system in which buyers & sellers exchange goods & services
- ☞ Understand why people spend & save money
- ☞ Understand that people use cash, credit, debit & checks to buy & sell things



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MATH

Number & Operations

Understand place value, representation & relationships of numbers to 10,000

- Show an understanding of place value
 - read, write & model numbers to 10,000
 - compare & order numbers to 1,000
 - recognize a number's position as compared to benchmark numbers (like 10, 50, 100, 500)

- Break apart & recombine numbers
 $853 = (8 \times 100) + (5 \times 10) + 3$; $853 = 900 - 50 + 3$

- Identify relationships of common factors & multiples (factors of 12 = 1 x 12, 2 x 6, 3 x 4); (multiples of 12 are 24, 36...(& share factors 1,2,3,4,6,12))

- Show an understanding of fractions (as part of a whole, part of a set, location on a number line)

- Use fractions & decimals to represent money ($\frac{1}{2}$ dollar is the same as 50¢)

Addition, Subtraction, Multiplication & Division

- Correctly select & use addition, subtraction, multiplication & division to solve problems

- Use a variety of models to multiply & divide whole numbers (pictures, arrays, groups of objects)

- Add & subtract numbers between 0 & 10,000
 $(230 + 520 = 750)$ $(800 - 19 = 781)$

- Become fluent with multiplication facts to 10 x 10

- Solve multiplication & division problems
 $(80 \div 4 = \square)$ $(15 \times 5 = \square)$

- Identify & use inverse (opposite) relationships in multiplication & division ($25 \times 5 = 125$); ($125 \div 5 = 25$)

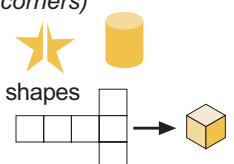
- Demonstrate strategies to solve problems:
 - estimate ($67 + 82 \approx 70 + 80 \approx 150$)
 - fluent multiplication facts (6×8 is double 3×8)
 - number relationships ($50+60 = (50+50+10) = (100+10)$)

Algebra

- Create, describe & extend patterns
 $(11, 12, 14, 17, 21, 26, 32, 39, _, _)$
- Show impact of changing variables
(increase by 10; $5 \times 10 = 50, 15 \times 10 = 150, 25 \times 10 = 250$)
- Explore math properties
 - commutative: can add or multiply numbers in any order ($5 \times 7 = 35, 7 \times 5 = 35$)
 - distributive: separate numbers into parts to make them easier to work with (*multiply each addend separately & then adding them together*): $3 \times 12 = (3 \times 10) + (3 \times 2) = 30 + 6 = 36$
 - zero: anything $\times 0 = 0$
 - proportional: 4 tops cost 80¢, so 1 top costs 20¢
- Find missing variable ($\square \times 3 = 12, \square = 4$)
- Model problem solving (using objects, pictures, graphs, tables & equations)
- Describe relationships of quantities (math expressions, equations, inequalities)

Geometry

- Use sets of 2 numbers (ordered pairs) to:
 - identify points on a graph
 - create paths between points
 - measure distances on a grid
- Use grid system to map real locations
- Build & draw geometric objects
- For 2-dimensional shapes
 - describe polygons (multi-sided shapes)
 - predict & describe flipping, turning, etc.
 - identify right angles (square corners)
- For 2- & 3-dimensional shapes:
 - identify lines of symmetry
 - recognize 2-D patterns to 3-D shapes
 - six-sided net to a cube



Measurement

- Use elapsed time (plan a party schedule)
- Estimate & measure using standard units & tools (length, weight, volume)

Data Analysis & Probability

- Collect, record, organize & display data (observe, measure, & survey; display on line plots, bar graphs)
- Predict outcomes of simple experiments (coin toss) & test it with objects (coins, spinners, dice)
- Discuss probability as certain, likely or unlikely
- Analyze data (to make predictions, draw conclusions, answer questions & make decisions)

SCIENCE

Do Scientific Investigations: OBSERVE, PREDICT, EXPERIMENT & VALIDATE

Scientific Thinking & Practice

- Pose a question
- Make a prediction based on:
 - scientific laws (gravity) or
 - cause & effect (light helps plants grow)
- Collect & analyze data & present findings

Physical Science

- Understand that light is a form of energy that travels in a straight line until it is reflected, refracted or absorbed
- Know that energy & its changes can be measured
- Describe properties of magnets

Earth & Planetary Science

- Describe objects in the solar system (planets, sun) relationships (distances) & features (size)
- Observe movement of stars & constellations
- Know that telescopes help see distant objects
- Know that earth's features are constantly changing (erosion, volcanos)
- Know that air takes up space & exerts force
- Identify parts of the water cycle & how water changes from one form to another (condensation, evaporation, precipitation)
- Know that fossils provide evidence & information about plants & animals that lived long ago

Life Sciences

- Know that living things adapt to their environment
- Classify plants & animals according to observable characteristics
- Describe harmful & beneficial effects that living things have on the environment (bark beetle)
- Know that some plants & animals have become extinct
- Describe nutrients needed by the human body (protein, vitamins)

Science & Society

- Know that some materials can be recycled (metal, paper) & others cannot (gasoline)
- Know that technology helps make food safer (packaging, refrigeration)