**LANGUAGE ARTS**

### Reading Process

- Actively read a variety of fiction & nonfiction
  - Make predictions
  - Formulate questions
  - Connect with prior knowledge
  - Seek additional information
- Expand & refine vocabulary through discussion, writing & reference materials
- Explain common synonyms (words with similar meaning) & antonyms (opposite meaning) & homographs (same spelling, different meaning)
- Read aloud fluently, with comprehension, expression & personal style

### Reading Analysis

#### Understand, Analyze & Interpret What’s Read

- Ask & answer questions that use:
  - Analysis (examine & break down info into parts)
  - Synthesis (put info together, elaborate, interpret)
  - Evaluation (draw conclusions & give reasons)
- Support answers & interpret new information using the text & prior knowledge
- Identify a plot’s main conflict or problem & how it’s resolved (examine other perspectives)
- Compare & contrast actions & motives of characters in different books
- Explain how author supports character & plot development (story type, style & word choices, imagery, symbolism, character action)
- Create & present a product that demonstrates a personal response to what’s being read

### Writing

#### Write Clearly and Effectively

- Apply effective writing strategies
  - Plan topics & pre-write
  - Compose rough draft using multiple related paragraphs
- Revise for clear communication of ideas
- Edit for writing conventions
  - Grammar, spelling, punctuation, capitalization & penmanship
- Improve on:
  - Sentence structure
  - Sequence
  - Descriptions
  - Variety of sentence types
  - Word choice
- Write for different audiences & purposes
  - Stories, reports, essays, letters, poetry, drama & journals
  - Describe, narrate, express, explain, persuade & analyze

### Research

#### Locate Information • Gather Data • Synthesize

#### Findings • Develop a Conclusion • Present Results

- Conduct research using a variety of primary (people, artifacts) & secondary sources (reference materials, databases, internet)
- Evaluate usefulness & quality of information
- Apply research skills to all content area

### Speaking, Listening & Viewing

#### Improve Communication Skills: Reflect & Respond

- Create & deliver focused presentations:
  - Pose hypothesis, evaluate information & ideas, support arguments
  - Address intended purpose & audience
  - Use clear language, suitable grammar & vocabulary, avoid overused phrases
- Participate in discussions, ask questions
- Memorize & recite passages
- Listen actively: evaluate information & ideas, make inferences & elaborate on information
- Perform interviews
- Follow multi-step directions

### SOCIAL STUDIES

#### People • Events • Cultures • Interactions • Citizenship History

- Describe colonization in North America: (the explorers, identify the European countries & their motives, interactions with Native Americans)
- Describe how slavery limited freedoms & potentials
- Explain the significance of major historical documents (U.S. Constitution, Bill of Rights, Gettysburg Address)
- Use primary (interviews) & secondary (books) sources as ways to gather information & research

#### Geography

- Identify & locate tribal territories, the 50 States & their capitals
- Make & use different kinds of maps, use geographic vocabulary (latitude, longitude)
- Describe the NM land forms (plains, mountains, plateau, basin & range) & how they support life
- Explain how U.S. expansion was influenced by Earth’s features (plains, mountains, resources)
- Describe resource use & human impacts on the environment

#### Civics & Government

- Explain the basic principles of the U.S. government (liberty, justice & equality under the law)
- Describe the ideals, (independence, religious freedom) people, (Washington) events & documents related to the development of the U.S. Constitution, (Articles of Confederation; Constitutional Convention; Declaration of Independence) & other essential U.S. documents (Treaty of Guadalupe Hidalgo)
- Explain the 3 branches of government (executive, legislative, judicial)
- Compare & contrast the authority of local, state, tribal & national governments
- Identify contributions of different groups to national identity
- Explain U.S. citizen responsibilities (safeguard liberty, respect the rule of law, preserve the constitution)

#### Economics

- Understand the impact of supply & demand on producers & consumers in a free enterprise system
- Understand patterns of work in NM & the U.S. (ranching, high-tech)
- Understand economic patterns of early societies (hunter-gatherers, farming)
MATHEMATICS

Whole Numbers

Understand number relationships, place value & how to work with numbers

- Read, write, sequence & use numbers to 1 billion
- Represent place value to 1,000,000,000
- Identify, compare & order:
  - numbers to millions
  - decimals to 1,000ths (0.013)
  - common fractions (3/4 > 2/3 > 1/2)
- Find factors & multiples of whole numbers to 50
  (Factors of 21: 1,3,7,21; Multiples of 7: 7,14,21,28...)
- Identify prime numbers to 50 (can be divided only by itself & 1, e.g. 23)

Addition, Subtraction, Multiplication & Division

- Add, subtract, multiply & divide whole numbers
- Divide with 1- & 2-digit numbers that result in remainders (95 ÷ 10 = 9 and R5)
- Solve real world situations using operations (+, -, x, ÷) & their inverse (opposite) operation (Will 5 packages of 25 plates serve 120 people? 25 x 5 = 125, 125 ÷ 25 = 5)
- Use & explain strategies to estimate if results are reasonable (4,826 ÷ 59 ≈ 4800 ÷ 60 ≈ 80)

Fractions & Decimals

- Add, subtract & simplify fractions & decimals (5/8 + 3/4 = 11/8 = 1 3/8 | 1.85 - 0.9 = 0.95)
- Represent & compute equivalents of numbers as fractions, decimals & percent (1/2 = 0.5 = 50%)

Algebra

- Identify, describe, represent, analyze & continue number patterns (double the given amount: 24 x 2 = 48, 48 x 2 = 96...)
- Compute equations with a symbol representing an unknown variable (240 ÷ y = 80, y = 30)
- Use math models to show number relationships (number lines, diagrams, graphs, less than (<), greater than (>))
- Identify & graph number pairs

Geometry

- Identify, describe, & classify 2- & 3-dimensional shapes up to 10 sides (faces, edges, base)
- Recognize parallel (∥) & perpendicular lines (⊥)
- Identify the line of symmetry in simple geometric figures (equal when folded in half)
- Compute perimeter of regular shapes
- Identify & explain circumference, radius & diameter

Measurement

- Use U.S. & metric systems to measure & solve problems for length, perimeter, area, weight, volume, time & temperature
- Perform conversions within measuring systems (inches to feet)
- Select & use strategies to estimate measurements

Data Analysis & Probability

- Form questions & identify data needed to answer the questions
- Organize, read & display data so it’s clear, organized & accurate (tables, graphs, diagrams)
- Compare the use of display types for different data sets
- Make & justify valid predictions, arguments, & conclusions. Compare prediction with results.
- Determine probabilities through experiments & compare results using mathematical expressions (fractions)

SCIENCE

Do Scientific Investigations: OBSERVE, PREDICT, EXPERIMENT & VALIDATE

Scientific Thinking & Practice

- Plan & conduct systematic experiments
  - form testable questions, (single variable & control)
  - record observations (same time, same technology)
  - develop conclusions, & communicate findings using charts, graphs or tables

Physical Science

- Describe how atoms are ordered in solids, liquids & gases & the changes that occur to them when heated
- Know that the periodic table is a chart of pure elements that make up all matter
- Describe how energy can be stored & converted into different forms (use electricity to charge a battery)
- Identify forces that produce motion in objects (gravity, magnetism, electricity, friction)
- Identify simple machines & how they are used (lever, pulley, axle, ramp)

Life Science

- Identify animal & plant roles in habitats, food chains & ecosystems
- Understand the effect of environmental changes on plants & animals
- Know about plant & animal life cycles (birth, growth & development, reproduction, & death)
- Identify traits resulting from heredity, learning & environmental influences
- Describe the relationship of cells, tissues, organs & systems in plants & animals

Earth & Space Science

- Understand that the Earth is part of the solar system, that is part of the Milky Way, that is one of many galaxies
- Know about manned & unmanned journeys into space
- Understand water & air processes & their relation to weather (water cycle, atmosphere, wind)
- Recognize that seasons are caused by the Earth’s rotation around the sun & tilt of the Earth’s axis