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McDowell Elementary

Second Grade Curriculum

READING

- **Phonemic Awareness**
 - blend phonemes
 - segment, count syllables in spoken words
 - manipulate phonemes
- **Phonics/Decoding Skills/Decoding Longer Words**
 - initial consonants
 - final consonants, double consonants
 - short vowels
 - apply phonics/decoding strategy
 - recognize and read high-frequency words
 - consonant clusters
 - consonant digraphs
 - CVC, CVCe, other patterns
 - long vowels, vowel pairs
 - r-controlled vowels
 - possessives
 - contractions
 - compound words
 - syllabication pattern
 - affixes
 - stressed and unstressed syllables
- **Comprehension skills**
 - distinguish between fantasy/realism
 - compare and contrast
 - predict outcomes
 - understand sequence of events
 - recognize story structure
 - determine cause and effect
 - determine text organization
 - draw conclusions
 - categorize and classify
 - note important details
 - recognize main idea, topic and supporting details
 - follow directions, oral and written
 - make inferences
 - make judgments
 - solve problems/make decisions
 - make generalizations
 - understand genres
 - recognize author's viewpoint
 - recognize fact and opinion
 - visualize
- **Comprehension Strategies**
 - predict/infer
 - summarize
 - phonics/decoding
 - evaluate
 - question

- monitor/clarify
- **Reading fluency**
 - read fluently at appropriate rate
- **Information/Study Skills**
 - use a dictionary/glossary
 - use the library
 - use graphic organizers
 - interview
 - read/use charts, tables, graphs, schedules, time lines, diagrams, calendars
 - follow directions
 - locate/use parts of a book
 - use print references
 - take notes
 - use newspapers/magazines
 - skim/scan
 - use electronic resources
 - outline
 - adjust reading rate
 - select and evaluate sources
- **Test-Taking Skills**
 - answering multiple-choice items
 - completing fill-in-the-blank items
 - writing an answer to a question
 - writing a personal response
 - answering vocabulary items
 - writing a personal narrative

SPELLING/VOCABULARY

- **Spelling**
 - recognize sound and letter patterns
 - understand word structure
 - spell words frequently misspelled
- **Vocabulary**
 - recognize and read high-frequency words
 - vocabulary expansion
 - content-area words
 - alphabetical order to third letter
 - antonyms
 - synonyms
 - homophones
 - multiple-meaning words
 - compound words
 - dictionary, glossary, and thesaurus
 - word families
 - use context

WRITING AND LANGUAGE ARTS

- **Grammar, Usage, and Mechanics**
 - punctuation
 - capitalization
 - complete sentences
 - types of sentences
 - subjects and predicates
 - nouns
 - plurals
 - possessives

- verbs
- present, past, and future tense
- subject-verb agreement
- irregular verbs
- adjectives
- comparisons
- pronouns
- adverbs
- **Writing Process**
 - independent writing
 - use the five-step writing process
- **Writing Skills**
 - read as a writer
 - use technology
 - writer's craft skills
- **Prewriting Skills**
 - choose a topic
 - organize and plan
 - use graphic organizers
 - discuss
 - consider audience and purpose
 - take notes
- **Drafting Skills**
 - write a good beginning, middle, and end
 - organize ideas in logical order
 - use details, facts, examples
 - state topic/purpose
 - find/evaluate information
 - use voice
- **Revision Skills**
 - tell more
 - elaborate/expand sentences with details
 - use exact words
 - self-assessment
 - conference
 - perform sentence combining
 - focus on purpose, audience, organization
- **Proofreading Skills**
 - capitalize/punctuate
 - use complete sentences
 - 5 sentences in paragraph
 - spell accurately
 - use correct grammar and usage
- **Modes of Writing**
 - write in a journal
 - write a letter
 - write a story
 - write poetry
 - do descriptive writing
 - write instructions/directions
 - write in a variety of forms
 - write a personal narrative
 - write a research report
 - use persuasive writing
 - expository writing
- **Traits of Writing**
 - ideas
 - organization

- word choice
- conventions
- presentation
- voice
- sentence fluency
- **Listening/Speaking/Viewing**
 - compare information
 - listen for comprehension
 - retell/summarize/report
 - listen for information
 - listen to/read aloud poetry
 - participate in group discussion/conversation
 - tell a story/retell a story
 - listen to a story
 - give and follow directions
 - view illustrations
 - view/evaluate media, information, and art
 - dramatize
 - visualize
 - use nonverbal cues
 - participate in reader's theater/choral reading
 - deliver a presentation/speech/report
 - resolve a conflict, problem
 - dictation

MATHEMATICS

- **Numbers and Operations-Number Sense and Numeration**
 - counts by 1's, 2's, 3's, 4's, 5's, 6's, 7's, 8's, 9's, 10's, 12's, 25's, 100's, 1000's
 - count by $\frac{1}{2}$'s, $\frac{1}{4}$'s
 - count backwards
 - counts and groups numbers in tens and ones
 - uses expanded form to represent numbers
 - writes digits 1-1000
 - writes numbers using words
 - reads and writes whole numbers to at least 1000, 3-digit numbers
 - reads and writes whole numbers to at least 10,000, 4-digit numbers
 - reads and writes whole numbers to at least 100,000, 5-digit numbers
 - reads and writes whole numbers to at least 1,000,000, 6-digit numbers
 - identifies numbers on a hundred number chart
 - compares 1- and/or 2-digit whole numbers
 - compares 3-digit or larger whole numbers
 - orders 1- and 2-digit whole numbers
 - orders 3-digit or larger whole numbers
 - round numbers to the nearest 10, 100, 1000
 - identifies place value for each digit in numbers to 1,000,000
 - represents 2- and 3-digit whole numbers using concrete materials and/or pictures
 - estimates and counts collections of objects
 - represents equivalent forms of the same number
 - renames numbers using regrouping
 - compares sets of objects and identifies sets with more, less, and the same
 - identifies sets with the greatest and least number of objects
 - identifies even and odd numbers
 - identifies pairs
 - identifies ordinal position

- identifies multiples of a number
- identifies factor of a number
- identifies prime and composite number
- identifies perfect squares
- identifies rational numbers from pictures and draws pictures to show rational numbers
- locates rational numbers on a number line
- reads and writes Roman numerals
- **Numbers and Operations-Concepts of Whole Number Operations**
 - shows the meaning of addition and subtraction
 - uses manipulatives to model and solve addition problems
 - uses pictures to model and solve addition problems
 - writes number sentences to show addition and subtraction
 - identifies addends and sums
 - identifies and uses the commutative and associative properties of addition
 - writes addition and subtraction fact families
 - shows the meaning of multiplication and division
 - uses manipulatives to model and solve multiplication and division problems
 - uses pictures to model and solve multiplication problems
 - uses number sentences to show multiplication and division
 - identifies factors and products
 - identifies and uses the commutative and associative properties of multiplication
 - uses pictures to model and solve division problems
 - identifies quotients, dividends, and/or divisors
 - writes multiplication and division fact families
 - makes, labels, and writes number sentences for an array
 - identifies the properties of 0 or 1 in multiplication and/or division
- **Numbers and Operations – Whole Number Computation**
 - masters addition facts to 18
 - identifies missing addends
 - identifies ten more and ten less than a number
 - estimates a sum
 - adds using mental computation
 - adds three or more single-digit numbers
 - adds 2-digit numbers without regrouping
 - adds two 2- or 3-digit numbers
 - adds three or more multidigit numbers
 - uses estimation to check the reasonableness of calculated results
 - uses concrete objects or pictures to subtract single-digit numbers
 - masters subtraction facts with minuends to 18
 - estimates a difference
 - subtracts using mental computation
 - subtracts 2- or 3-digit numbers
 - subtracts 2-digit numbers without regrouping
 - masters multiplying by 0 to 9
 - checks subtraction answers using addition
 - multiplies by 10, 100, 1000 and/or 10,000
 - multiplies by multiples of 10, 100, 1000, 10,000
 - multiplies using mental computation
 - multiplies a 2-digit number by a 1-digit number
 - multiplies a 3-digit or larger number by a 1-digit number
 - masters division facts
 - divides by 10
 - divides 2- and/or 3-digit multiples of 10 by a 1-digit number
 - divides a 2-, 3-, and/or 4-digit number by a 1-digit number

- checks division by using multiplication
- **Numbers and Operations – *Fractions and Decimals***
 - identifies one half and/or one fourth of a whole
 - identifies a fractional part of a whole
 - writes a fraction to show a part of a whole
 - finds half of a set of objects
 - identifies a fractional part of a set
 - writes a fraction to show a part of a set
 - identifies equivalent fractions
 - represents and writes mixed numbers
 - compares fractions
 - orders fractions
 - adds and subtracts fractions
 - writes tenths or hundredths using common and decimal fractions
 - pictures decimal fractions
 - multiplies and/or divides money amounts (decimal)
 - adds money amount (decimal)
 - subtracts money amount (decimal)
- **Numbers and Operations – *Money***
 - identifies and counts pennies, dimes, nickels, quarters
 - finds the value of a set of coins
 - compares the values of sets of coins
 - selects coins for a given amount
 - makes change from \$1.00, \$5.00, \$10.00
 - reads and writes money amounts to \$10.00
 - reads and writes money amounts to \$99,999.99
 - writes checks
- **Measurement**
 - identifies today's date
 - writes the date using digits
 - identifies yesterday, today and tomorrow
 - identifies morning, afternoon, evening, and night
 - identifies a.m., p.m., noon, and midnight
 - identifies days of the week and months of the year
 - identifies weekdays and days of the weekend
 - identifies dates on a calendar
 - tells and shows time to the hour and half hour
 - tells and shows time to the 5-minute interval and /or minute
 - tells and shows time to the quarter hour
 - identifies equivalent units of time
 - finds elapsed time
 - estimates temperature
 - reads a Fahrenheit thermometer
 - reads a Celsius thermometer
 - identifies common temperatures
 - estimates length or distance
 - compares the length or height of objects
 - orders objects by length or height
 - measures length or distance using nonstandard units
 - measures length using customary units (inch, foot, yard)
 - draws line segments using customary units (inch)
 - measures length using metric units (centimeter, millimeter, and meter)
 - draws line segments using metric units (centimeter, millimeter)
 - identifies equivalent units of linear measure
 - uses a scale to find distance on a map
 - compares and orders objects by weight (mass)
 - estimates weight (mass)
 - identifies units of mass

- weighs objects using customary or metric units
- estimates capacity (volume)
- identifies and uses measuring cups
- compares and /or orders containers by capacity
- identifies customary and/or metric units of capacity
- measures capacity
- follows a recipe and measures
- compares and orders objects by size
- finds area using nonstandard units
- estimates area
- finds area of a rectangle
- finds perimeter of a polygon
- finds volume of a rectangular prism
- finds volume of a cube
- **Geometry**
 - makes and covers designs with pattern blocks or tangrams
 - makes and copies designs on a geoboard
 - creates, identifies, and /or draws congruent shapes, designs, and/or line segments
 - identifies, describes, sorts, and/or compares geometric shapes
 - identifies angles and sides
 - identifies, describes, and classifies polygons
 - names line segments
 - identifies horizontal, vertical, and oblique line segments
 - identifies right angles
 - identifies acute and obtuse angles
 - names triangles by angle size
 - identifies faces, vertices, and edges of a geometric solid
 - identifies, describes, sorts, compares, and/or constructs geometric solids
- **Transformation and Symmetry**
 - identifies and draws a line of symmetry and/or creates symmetrical designs
 - explores, identifies, and/or shows transformations: translations, rotations, and reflections
- **Patterns, Algebra, and Functions**
 - identifies, reads, and extends patterns
 - identifies the missing shape or number in a matrix
 - identifies the missing number in a sequence
 - constructs a number line and/or locates points on a number line
 - locates and graphs points on a coordinate graph
 - shows addition, subtraction, and/or multiplication on a number line
 - simplifies expressions containing addition, subtraction, multiplication, division
 - simplifies expressions containing parentheses
 - simplifies expressions containing exponents
 - uses the order of operations to simplify expressions
 - adds positive and negative numbers
 - uses comparison symbols (greater than, less than, equal to)
 - represents an unknown using a symbol
 - identifies and writes a function rule
 - uses a function rule to complete a table
 - writes and solves a number sentence for a problem involving addition or subtraction
 - creates problem for addition and subtraction number sentences
- **Statistics, Data Analysis and Probability**
 - tallies
 - conducts a survey and/or records data
 - graphs a picture on a pictograph

- identifies most, fewest, and/or same on a graph
- draws and reads a pictograph
- draws and reads a bar graph
- draws and reads a bar graph with a scale greater than 1
- draws and reads a line graph
- draws and reads a Venn diagram
- writes observations about graph
- describes the likelihood of an event
- predicts the outcome of a probability experiment
- conducts a probability experiment
- classifies and categorizes
- looks for a pattern
- makes predictions
- identifies important/unimportant information
- acts out a problem or makes a model
- draws a picture
- guesses, checks, and revises
- makes an organized list
- makes a table or chart
- uses logical reasoning
- writes a number sentence
- substitutes simpler numbers
- **Communication**
 - questions and responds
 - works with partners or in a group
 - writes about math
- **Mathematical Reasoning**
 - recognizes patterns
 - classifies and sorts
 - solves spatial problems
 - estimates
 - explains an answer
- **Connections**
 - connects math to everyday life
 - connects math to science
 - connects math to social studies

SOCIAL STUDIES

- **History**
 - links to the past and how we know – traditions and their origins
 - empathy
 - time and chronology – understand and use time sequence terms
 - cause and effect – effects of war, inventions
 - continuity and change – histories of families, how basic needs met long ago and today
 - interrelatedness – origins of Thanksgiving
 - women, minorities – diversity of people
- **Geography**
 - location – beyond the neighborhood
 - place – map locations, global climates, identify and analyze microenvironments
 - human-environment interaction
 - movement – movement of goods and people
 - regions – identify different regions
- **Economics**
 - basic concepts – how needs are met, community jobs
 - exchange systems – how systems are learned (immigrants)

- basic economic questions – production and distribution
- interdependence – interdependence of producers and consumers
- **Culture**
 - cultural understanding – role of family
 - cultural complexity – compare
 - similarities and differences
 - literature and the arts
 - myths and legends
- **Social and Political Systems**
 - belonging to a group – identify public/private sectors
 - law – recognize and observe the need for rules
 - global interdependence – recognize other nations
- **National Identity**
 - pluralism – recognize national identity and diversity of U.S. citizens
 - democracy
 - American ideals and symbols – learn national symbols, Pledge of Allegiance, patriotic songs, flag
- **Constitutional Heritage**
 - balance of power – fair treatment of all
- **Citizenship**
 - individual and state
 - democratic behavior
 - selection of leaders – identify office of the U.S. President
 - human rights – develop respect for others
 - settlement of disputes
- **Study Skills**
 - collecting information – use library, reference materials, interview for information
 - organizing information – identify main ideas and details
 - presenting information – tell events and ideas in sequence, write simple paragraphs
- **Visual Learning**
 - observation – neighborhood, community features
 - timelines – read and make simple timelines, graphic organizers, graphs, diagrams
 - interpretation – gather information and respond to photos, illustrations, fine art
 - symbols – national symbols, flag
 - visual self-expression
- **Map and Globe Skills**
 - symbols – color as symbol, continents, oceans
 - location – use grids to find locations, relative location
 - direction – cardinal directions, describe routes
 - scale and distance – judge relative sizes, distances
 - construction and use – construct 3-D maps of community, neighborhood
- **Critical Thinking**
 - define and clarify – formulate questions
 - evaluate and judge – sequence of events
 - solve and conclude – identify cause and effect, draw conclusions based on evidence
- **Social Participation**
 - interpersonal – develop self-respect, confidence, good listening skills
 - group work – show willingness to participate in group activities, accept group decisions

SCIENCE

- **Plants Grow and Change**
 - What are living and nonliving things?

- How do plants grow and change?
- How are plants alike and different?
- **Animals Grow and Change**
 - How are animals alike and different?
 - What are some animal life cycles?
- **People Grow and Change**
 - How will I grow?
 - What do my bones and muscles do?
 - How do my heart and lungs work?
 - How do I digest food?
- **Earth's Resources**
 - How do people use rocks and soil?
 - How do people use water?
 - What other natural resources do people use?
- **Earth Long Ago**
 - What is a fossil?
 - How do scientists get fossils?
 - What have scientists learned about dinosaurs?
- **Observing and Measuring Matter**
 - What is matter?
 - What can we find out about solids?
 - What can we find out about liquids?
 - What can we find out about gases?
- **Changes in Matter**
 - What happens when you mix matter?
 - How can water change?
 - What other ways does matter change?
- **Forces and Motion**
 - What are forces?
 - How can we measure motion?
- **Sound**
 - What is sound?
 - How do sounds vary?
 - How does sound travel?
 - How can we make different sounds?
- **The Sun, the Moon, the Stars**
 - What causes day and night?
 - What causes the seasons?
 - How does the moon move and change?
 - What can we see in the night sky?
- **Changes in Habitats**
 - How does weather change habitats?
 - How does pollution change environment?
 - How do people help the environment?

HANDWRITING

- neatness
- learn cursive

OTHER

- Book Reports – oral and written
- Research Report - Dinosaur
 - cover, body of report, illustration
- Oral Skills
 - Oral sharing
 - Presentations

