GRADE FOUR

MATH

PLACE VALUE
- Meaning of place value
- Compare and order
- Read and write through the hundred millions
- Round

ADDITION AND SUBTRACTION
- Patterns using a calculator
- Estimate sums and differences
- Three and four-digit numbers
- Subtract across zeros
- Multiple-step problems
- Missing addends
- Mental math
- Add with more than three addends

MULTIPLICATION
- Meaning of multiplication
- Patterns in multiples
- Zero product property
- Identity property
- Basic facts
- Multiples of ten as factors
- Relate to rectangle dimensions
- Estimate products
- With arrays
- With two-digit numbers
- With three digit numbers
- With four digit numbers
- Amounts of money
- With three factors
- Multiple step problems

DIVISION
- Meaning of division
- Basic facts
- One digit divisors
- By two to determine even or odd
- Patterns using a calculator
- Estimate quotients
- With reminders
- Two-digit dividends
- Three-digit quotients
- With zeros in the quotient
- Interpret remainders
- Amounts of money
- Mean
- Divisibility rules
- By multiples of ten
- Estimate with two-digit divisors
- With two-digit divisors

GEOMETRY
- Identify solids
- Identify polygons
- Classify angles by sides
- Classify angles
- Classify triangles by angles
- Congruent figures
- Transformation, rotation, reflection
- Similar figures
- Intersecting, perpendicular, and parallel lines
- Classify quadrilaterals
- Lines of symmetry
- Perimeter
- Area
- Volume

MEASUREMENT
- Estimate length
- Estimate capacity
- Estimate weight
- Estimate mass
- Length (customary and metric)
- Capacity (customary and metric)
- Weight (customary and metric)
- Convert units
- Fractional parts of an inch
- Balance a scale model
- Thermometers (Celsius and Fahrenheit)

TIME AND MONEY
- Tell time to the minute identifying A.M. and P.M.
- Estimate and compare
- Elapsed time
- Calendar
- Count and compare
- Add and subtract money
- Make change
MATH (Continued)

FRACTIONS
- Of a region or set
- Estimate fractional amounts
- Convert between improper fractions and whole or mixed numbers
- Equivalent fractions
- Lowest terms
- Compare and order
- Find the number for the fraction of a set
- Add with like or unlike denominators
- Subtract

DECIMALS
- Understand place value
- Read and write through the hundredths
- Compare and order
- Round
- Convert between fractions and decimals
- Estimate sums and differences
- Add and subtract

DATA, GRAPHS, STATISTICS AND PROBABILITY
- Pictograph, bar, line, stem-and-leaf
- Range, median, mode
- Ordered pairs
- Line plots
- Likelihood, fairness, sample, space, probability, predictions

PROBLEM SOLVING
- Choose an operation
- Find a pattern
- Relate strategies
- Make a table, graph, chart
- Draw picture
- Use objects and act it out
- Use a guide
- Make an organized list
- Guess and check
- Solve a simpler problem

WRITING
- Capitalization
  - First Word
  - Proper nouns
  - Titles
  - Letter writing
  - Abbreviation and initials
- Punctuation
  - Period
  - Comma
  - Question mark
  - Exclamation point
  - Apostrophe
- Composition
  - Writing sentences
  - Writing topic sentences
  - Developing paragraphs
  - Writing letters
  - Choosing effective words
  - Creative writing
  - Poetry
- Proofreading

GRAMMAR
- Parts of speech
  - Nouns
  - Verbs
  - Adjectives
  - Pronouns
- Sentence building
  - Kinds of sentences
  - Run-on sentences
  - Subjects and predicates

PENMANSHIP
- Formation of cursive characters
- Synthesize self-evaluation skills:
  - Proper slant
  - Size
  - Shape
  - Slant
  - Spacing
  - Smoothness
- Infuse key elements of legibility in all writing

ORAL AND LISTENING
- Appreciation
- Rhyming words
- Listening courtesy

LANGUAGE ARTS and WRITING

SPELLING
- Study of words derived form
  - Appropriate lists
  - Student writing
  - Content areas
  - Contemporary culture
WORD SKILLS
- Using syllables
- Base words
- Dictionary (locating words, pronunciations)
- Compound words
- Word roots
- Prefixes and suffixes
- Vocabulary building
- Antonyms
- Synonyms
- Homophones

COMPREHENSION
- Visualization
- Following directions
- Understanding character
- Sequence (clue words)
- Fact and opinion
- Cause and effect
- Predicting and infer
- Colon, semi-colon, quotation marks, apostrophe
- Drawing conclusions
- Main idea
- Supporting details
- Monitor and summarize
- Paragraph topics
- Text organization
- Categorizing
- Analogies
- Similes and metaphors
- Idioms
- Content

REFERENCE AND STUDY SKILLS
- Table of contents
- Index
- Encyclopedia
- Maps, diagrams, graphs
- Locating information
- Outlining
- Note taking

LITERACY SKILLS
- Distinguish between fiction and non-fiction
- Genre
- Recognizing poetry
- Characterization
- Setting
- Plot
- Narrative and dialogue
- Author’s technique

CLASSIFYING PLANTS AND ANIMALS
- What are the building blocks of life
- Classifying plants and animals
  - Describe life cycles of various animals
  - Explain that all living things compete for Earth’s resources
- Adaptation of animals

PLANTS
- Energy from plants
- Characteristics of plants
- How green plants use of carbon dioxide, water and sunlight energy to turn minerals and nutrients into food
- Common parts of plants
- How plants reproduce
- Life cycle of a plant

PROPERTIES OF MATTER
- What is matter
- Compare and contrast physical properties of matter
- Measuring matter
- Effects of heating and cooling matter
- Changes in matter
  - Physical
  - Chemical

SIMPLE MACHINES
- What are simple machines
- How machines work together to complete tasks

INNER AND OUTER PLANETS
- What makes up the universe
  - Galaxies
  - Gravity and the planets
  - The sun
  - The moon
- The inner planets
  - Size
  - Characteristics
  - Composition
  - Arrangement
- Identify characteristics of Jupiter, Saturn, Uranus, Neptune, and Pluto
HURRICANES AND TORNADOES

- Hurricanes
  - Understand hurricanes
  - Safety concerns
  - Effects of oceans and climate
- What are tornadoes
  - Understand tornadoes
  - Wind speed, direction, precipitation, and barometric pressure

SAFETY

- Review
  - Traffic
  - Building
  - Playground
  - Home
  - Recreational
  - Weather related
  - Poison
  - Bicycle
  - Fire
  - Skating
  - Emergency situation
- Substance use and abuse
- Roll of drugs in medicine

- Awareness
  - Child Abuse
- First Aid

NUTRITION

- Review
  - Food groups
  - Vocabulary
  - Menu planning for good health
  - Various factors relating to food selection and preparation
- Meaning of product ads and labels

DENTAL HEALTH

- Teeth
  - Types
  - Functions
- Dental Care
  - Problems
  - Fluoride

DISEASE PREVENTION

- Vocabulary and terminology
- Modes of transmission
- Review healing process
- Immunization

ENVIRONMENT AND HEALTH

- Health practices
- Review communicable diseases
- Diseases related to tobacco, alcohol and drugs
- Public health issues

BODY SYSTEMS

- Cells
- Systems
- Needs and care of body
- Growth
- Dental health

FAMILY LIFE EDUCATION

- Self-image
- Self-esteem
- Disagreements and anger
- Decision making
- Physical fitness
- Feelings
- Introduce puberty

STUDY SKILLS

- The student will use the electronic card catalog to locate material by author, title, and subject
- The student will locate material using call numbers
- The student will interpret bibliographic entries in the electronic card catalog
- The student will use the non-fiction collection as a source of factual information for research and reference
- The student will locate a biography about a specific person
- The student will identify the publisher, place and date of publication of a book
- The student will use a dictionary for the pronunciation, syllabication, and part of speech of a word
ART

DRAWING AND PAINTING
- Scenes
- Fantasy
- Figure
- Color wheel
- Portraits

CUT AND PASTE
- Tissue Mosaics
- Silhouettes
- Cut-outs
- Stencils

PRINT MAKING
- Mono-print
- Stamps
- Stencils
- Junk printing

SCULPTURE, CERAMICS AND COLLAGE
- Paris craft
- Celluclay
- Material collage
- Mobile
- Sculpture
- Burlap string
- Soap
- Clay

WEAVING AND STITCHERY
- Cardboard
- Loom
- Paper
- Samplers

MOBILE AND STABILES
- Pipe cleaners
- Wire

EXPRESSION
- Fine art
- Color for combinations (mood, emotion, environment, sound)
- Mix colors
- Terminology
- Shapes
- Use of form and shape
- Tonal value and contrasts
- Use of line to create mood
- Texture
- Rhythm
- Composition
- Symmetrical

Asymmetrical

PUPPETRY
- Hand puppets
- Marionettes
- Box puppets

SOCIAL STUDIES

THE GEOGRAPHY OF NEW JERSEY
- Landscape of New Jersey
- Waters of New Jersey
- Our state’s climate
- Our country, six regions
- Regions of New Jersey
- Our state’s resources

SETTLEMENT OF THE NEW LAND
- Early people of New Jersey
- Native Americans of New Jersey
- Daily life of the Lenape
- The arrival of the Europeans
- Using latitude and longitude
- New Netherlands
- English New Jersey
- Life in the New Jersey colony
- Unrest in the colonies
- Crossroads to the Revolution
- A more perfect union
- Reading time lines

A GROWING STATE
- Changes in a new state
- The first factory town
- Why some New Jerseyans fought for suffrage in the 1800’s
- How slavery divided people of New Jersey
- Importance of the Underground Railroad
- New Jersey and the Civil War
- Inventions and industry
- Reason for immigration
- Ellis Island
- Using map skills

NEW JERSEY COMES OF AGE
- The reform years
- World War I and the 1920’s
- The Depression and World War II
- Booming New Jersey
- List the major changes to the NJ Constitution in 1947
- Changing economy
- Reading road maps
NEW JERSEY AND THE TWENTY FIRST CENTURY
- The first enterprise system at work
- New Jersey workers
- Identify leading products manufactured in NJ
- Cutting edge in New Jersey
- Your local, state, and national governments
- People of New Jersey
- Sports and recreation
- Education and the arts
- Reading newspapers
- Reading time zone maps

ELECTRONIC DATABASE LOCATION/CARD CATALOG
- Understand the card catalog and electronic databases are indexes to the collection
- Interpret card catalog drawer labels
- Interprets information appearing on electronic database screen
- Locates materials by author, title, and subject
- Locates materials using call letters
- Interprets information on the catalog cards

FICTION AND NON FICTION
- Understand difference
- Knows the two main categories
- Uses non-fiction as a source of information

BIOGRAPHICAL SOURCES
- Define biography and autobiography
- Locate specific biography

REFERENCE
- Sources are to be referred to, not completely read
- Able to locate information with guidance

PERIODICALS
- Familiar with intermediate magazines
- Uses intermediate magazines, both general and special subjects

INDEX
- Important part of a book
- Some non-fiction books have indexes
- Location in back of book

AUDIOVISUAL MATERIALS AND EQUIPMENT
- Information in various formats

EVALUATION AND SELECTION TECHNIQUES
- Understands different forms of literature
- Selects materials for specific purpose
- Knows authors and their works
- Selects leisure reading

PARTS OF A BOOK
- Table of contents
- Dedication
- Glossary
- Title page
- Date of publication
- Publisher

LITERATURE APPRECIATION
- Knows various forms of literature
- Knows various characters

PHYSICAL EDUCATION
- To develop body, spatial and temporal awareness
- To develop loco motor, manipulative and non-loco motor skills
- To integrate loco motor, non-loco motor and manipulative skills in movement dance, games and sports skills
- To develop an understanding of the benefits of regular physical activity that will lead to enhanced health and personal fitness
- To develop knowledgeable consumer behaviors in the areas of health and fitness
- To develop listening skills and safety awareness
- To develop an understanding of the general function and structure of the body
- To develop an understanding and appreciation for the rules, regulations, strategies and etiquette for movement, dance, games and sport
- To develop an appreciation for the aesthetic value and creative qualities of movement
- To develop self confidence and inter-personal skills
- To develop an understanding of group process through basic problem solving
RHYTHMIC CONCEPTS
- Note values reviewed
  Syncopa/ti-ta-ti
  Dotted half note/ta-a-a
  Single eighth note/’ti
  Eighth rest
- Note values made conscious
  Four sixteenth notes/tiki-tiki
  Dotted quarter note/ta-i in ¾ and 4/4 time
- Notes values prepared
  2 Sixteenth-eighth combo/tiki-ti
  Eighth-2 sixteenth combo/ti-tiki
  Eighth dotted quarter combo/ti-ta-i
  Defted eighth-sixteenth combo/tim-ri

MELODIC CONCEPTS
- Syllables reviewed
  Do Pentatonic scale
- Syllables made conscious
  High Do
  Low La
  Low Sol
- Syllables prepared
  La Pentatonic
  Fa
  Ti
  C major scale

THEORY CONCEPT
- Symbols
  Continue all rhythmic symbols (K-3)
  Four sixteenth notes = tiki-tiki
  Dotted quarter note = 68ta-i
  Time signature
  D.C. al fine
  D.S. al fine
  Bass clef
  Crescendo/decrescendo
- Vocabulary
  Intervals
  Duple meter
  Triple meter
  Mezzo piano/forte
  Fortissimo/pianissimo
  Soprano/alto
  Acapella
  Legato/staccato
- Form
  Continue Canon and Rondo

RELATED ACTIVITIES
- Rhythmic improvisation/dictation
- Melodic improvisation/dictation
- Memory and inner hearing games
- Conducting
- Listening

COMPUTER LITERACY
- Understand and demonstrate the ability to use the hardware
- Demonstrate proper use and care of all hardware and software
- Understand use of software

KEYBOARD AWARENESS
- Show letter location awareness
- Know all special key locations, function, command and option locations
- Know proper positions for finger placement on the keyboard

KEYBOARDING
- Is familiar with the phases of keyboarding techniques
- Uses touch control
- Is able to strike keys from home row position

WORD PROCESSING
- Enter text of varying lengths
- Access methods used to edit, save, print or retrieve text
- Use own initialized disk
- Demonstrate ability to print

PROGRAM AWARENESS
- Use software to produce a product
- Use a draw program to create
- Work with simulations