PLACE VALUE, ADDITION AND SUBTRACTION
- Numbers through the billions
- Compare and order whole numbers
- Round whole numbers
- Decimals through the
- Compare and order decimals
- Equivalent decimals
- Decimals on a number line
- Round decimals
- Estimate sums and differences
- Add and subtract up to five-digit numbers
- Add and subtract decimals through the hundredths

MULTIPLICATION
- Patterns using a calculator
- Properties (commutative, associative, distributive)
- Estimate
- Two-digit numbers
- A decimal by whole number
- High and low estimates for a product
- Zeros in product with decimals

DIVISION
- Patterns using a calculator
- Estimate
- With money
- One digit divisors
- Interpret remainders
- Zeros in the quotient
- Mean
- Decimals to the thousandths
- Divisibility rules
- Find factors
- Prime or composite
- Two-digit divisors

GEOMETRY
- Identify and name lines and angles
- Classify triangles by angles by sides
- Classify quadrilaterals
- Similar polygons
- Congruent polygons
- Transformation, rotation, reflection
- Lines of symmetry
- Faces, vertices, edges of prisms and pyramids, polygons

MEASUREMENT
- Angles
- Length using fractional parts of an inch

- Convert between customary units of length, weight, capacity
- Convert between metric units of length, weight, capacity
- Read thermometers and calculate changes in temperature
- Connect volume, mass, and capacity
- Perimeter of polygons
- Perimeter given mixed units
- Area of rectangles, triangles, parallelograms
- Circumference
- Surface area

FRACTIONS AND MIXED NUMBERS
- Parts of regions, sets or segments
- Equivalent fractions
- Greatest common factors
- Compare and order
- Common denominators
- Compare and order mixed numbers
- Convert between improper fractions and mixed numbers
- Convert between fractions, decimals and percents
- Add and subtract with like or unlike denominators
- Estimate sums and differences
- Add and subtract mixed numbers
- Add with renaming
- Subtract with regrouping
- Multiple whole numbers by fractions
- Fractional part of a whole
- Multiply fractions by fractions
- Multiply whole numbers by mixed numbers
- Divide whole numbers by fractions

RATIO, PERCENT AND PROBABILITY
- Write and simplify ratios
- Equal ratios
- Ratio tables to write proportions
- Patterns in percent using a calculator
- Percent of a number
- Probability of an event
- Fairness of an event
- Predict outcomes
- Probabilities as fractions
- Compare expected and experimental outcomes

DATA, GRAPHS AND STATISTICS
- Line graphs, bar graphs, stem-and-leaf plots
- Analyze data
- Range, median, mode
ALGEBRA
- Evaluate variable expressions
- Equations from models
- Balance equations
- Translate verbal expressions into algebraic expressions
- Function tables

PROBLEM SOLVING
- Draw a picture
- Choose an operation
- Guess and check
- Work backward
- Solve a simpler problem
- Exact answer or estimate
- Compare strategies
- Make a table, graph, chart
- Eliminate information
- Look for a pattern

COMPUTERS

COMPUTER PARTS
- Identify the basic components of a computer
- Use and care of equipment
- Use of Peripherals and external devices such as CD, printers
- Word processing – create, save and print documents
- Use of a simple internet browser, search engines and directories to find information
- Produce and explain a simple graph from a spreadsheet
- Create educational multimedia presentation
- Understanding of common uses and careers in technology
- Use technology to locate, evaluate and collect information from a variety of sources
- Evaluate information resources based on appropriateness to specific task

READING

DECODING
- Base words
- Dictionary (locating words, pronunciation key)

COMPREHENSION
- Prefixes and suffixes
- Context
- Dictionary (word meanings)
- Commas, quotation marks, apostrophes
- Understanding punctuation
- Similes and metaphors
- Word referents
- Idioms

COMPREHENSION APPLICATION
- Context and stress marks
- Following directions
- Visualizing
- Paragraph topics
- Main idea
- Drawing conclusions
- Correct stress
- Cause and effect
- Sequence (clue words)
- Predicting outcomes

REFERENCE AND STUDY SKILLS
- Card catalog
- Table of contents
- Index
- Encyclopedia
- Tables, maps, time lines, diagrams, graphs
- Reference aids
- Locating information
- Outlining
- Fact and opinion
- Dictionary skills
- Synonyms
- Antonyms

LITERACY SKILLS
- Fiction and non-fiction
- Different types of fiction and non-fiction
- Recognizing play form
- Recognizing poetry
- Characterization, setting, plot, theme
- Author’s use of narrative, dialogue, effective language and writing techniques

STUDY SKILLS
- The student will use the electronic card catalog to locate material by author, title, subject and keyword
- Interpret computer screen information using BELS system
- Understand the “10” main classes of the Dewey Decimal System
- Locate information about a person in the biographical dictionary
- Locate non-fiction book on a specific topic
- Identify a topic using more than one source, including the internet
- The student will recognize propaganda techniques
- Use the skimming and scanning technique to locate information
ORAL AND LISTENING
- Appreciation
- Rhyming words
- Rhythm
- Articulation
- Courtesy rules
- Discussion

WRITING
- Capitalization
  - First Word
  - Letter writing
  - Outlines
  - Proper nouns and adjectives
  - Names and initials
- Punctuation
  - Period
  - Colon
  - Comma
  - Question mark
  - Quotation marks
  - Exclamation point
  - Hyphen
  - Apostrophe
- Composition
  - Expanding sentences
  - Developing paragraphs
  - Choosing effective words
  - Writing
    - Description
    - Exposition
    - Narration
    - Poetry
    - Dialogue
    - Letters
    - Reports
    - Topic sentences

SPELLING
- Study of words derived form
  - Appropriate lists
  - Student writing
  - Content areas

GRAMMAR
- Parts of speech
  - Nouns
  - Verbs
  - Adverbs
  - Articles
  - Prepositions
- Sentence building
  - Kinds
  - Run-on
  - Fragment
  - Subjects and predicates
  - Word order

PENMANSHIP
- Synthesize through self-evaluation by displaying:
  - Proper slant
  - Size
  - Shape
  - Spacing
  - Alignment
  - General appearance

CONTENT
- Five themes of geography
- The geographers tools
- Our planet
- Climate and weather
- Population
- Migration
- Economic systems
- Political systems

THE LAND AND EARLY PEOPLE
- Land and regions
- Bodies of water
- Climate and vegetation regions
- Using the land
- Where people live and work
- The first Americans
- Ancient Indians
- Regions of the United States

TIME OF ENCOUNTERS
- The world in the 1400’s
- Background to European exploration
- Europeans explore the world
- The Spanish conquerors
- Search for the Northwest passage
- New Spain and New France
- The English in America
- The Jamestown Colony
- The Plymouth Colony

THE ENGLISH COLONIES
- The Massachusetts Bay Colony
- New ideas, new colonies
- New England’s economy
- Breadbasket Colonies
- Colonial Philadelphia
- Moving west
- Settlement in the south
- Southern plantations
- Southern cities
SKILLS
- Map and Globe Skills
  - Direction
  - Symbols
  - Location
  - Scale, distance, and shape
  - Comparison, use, and interpretation
- Chart and graph skills
- Time Skills
- Citizenship skills
- Thinking skills
- Reading, Writing, and Study Skills

SCIENTIFIC PROCESSES
- Habits of Mind
  - Inquiry skills scientists’ use
- Inquiry and Problem Solving
  - Tools scientists use
  - Scientific Method
- Safety
  - Practice safety procedures

SCIENCE AND SOCIETY
- Cultural contributions
  - Describe how people in different cultures have made and continue to make contributions to science and technology
- Historical perspectives
  - Hear, read, write, and talk about scientists and inventors in historical context

MATHEMATICAL APPLICATIONS
- Numerical operations
  - Estimates, measurements, and computations of quantities when doing Science
  - Express quantities using appropriate number formats, such as integers and fractions
- Geometry and measurement
  - Select appropriate measuring instruments
  - Use a variety of measuring instruments and record measured quantities
- Patterns and algebra
  - Identify patterns when observing the natural and constructed world
- Data analysis and probability
  - Use tables and graphs to represent & interpret data

NATURE AND PROCESS OF TECHNOLOGY
- Science and technology
  - Distinguish between things that occur in nature and those that have been designed to solve human problems

CHEMISTRY
- Structure and Properties of matter
  - Recognize that about 100 different elements have been identified and most materials on Earth are made of a few of them

PHYSICS
Energy Transformations
- Sources of heat
- Sources of light
- Kinetic and Potential energy
- Use devices that show electricity producing heat, light, sound, and magnetic effects
- Design an electric circuit
- Relationship between electricity and magnetism
- Static and current electricity

EARTH SCIENCE
Earth’s properties and materials
- The rock cycle
- What are minerals
- Formation of rocks
- Changes in rock
- Changes to the earth surface
- Earth’s landforms
- Processes that shape the earth

ENVIRONMENTAL STUDIES
- Natural systems and interactions
  - Renewable natural resources vs. non-renewable natural resources
- Human interactions and impact
  - Describe the effect of human activities on various ecosystems
  - Evaluate the impact of personal activities on the local environment
HEALTH

SAFETY
- Safety
  - Water
  - Electrical
  - First aid
  - Shock
  - Breathing
  - Choking
  - Bleeding
  - Poisoning
  - Broken bones
  - Burns
  - Rescue
- Drugs
  - Use
  - Types
  - Effects
- Substance abuse and resistance education
- Awareness
  - Child Abuse

NUTRITION
- Food
  - Fads
  - Snack habits
  - Body weight
  - Calorie intake
  - Digestion
- Health problems
- Manners
- Emotions
- Behavior
- Product safety

DISEASE PREVENTION
- Environment/pollution
- Vocabulary
- Heredity and health
- Treatments
  - Medical
  - Surgical
- Healthy habits
- Illnesses related to the aged
- Body defenses
- Public health issues
- Body systems
- Communicable diseases
- Review Specific Illnesses
- Disabilities

FAMILY LIFE EDUCATION
- Family patterns

DENTAL HEALTH
- Review teeth
  - Structure
    - Types
    - Functions
    - Number
      - Primary
      - Adult
- Decay process
- Malocclusion
- Orthodonture
- Dental safety

ART

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

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
ART (Continued)
- Burlap string
- Soap
- Clay

WEAVING AND STITCHERY
- Cardboard
- Loom
- Paper
- Samplers

MOBILE AND STABILES
- Pipe cleaners
- stabiles
- Wire

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

PUPPETRY
- Hand puppets
- Marionettes
- Box puppets

PHYSICAL EDUCATION

SPORTS ACTIVITIES

MODIFIED GAMES OF CONTEMPORARY AND TRADITIONAL SPORTS, e.g.
- Soccer
- Volleyball
- Basketball
- Floor hockey
- Track and field
- La Crosse
- Cross Country
- Etc.

GAMES OF LOW ORGANIZATION, e.g.
- Games unit
- Scooter activities
- Circuit games
- Parachute activities

DANCE
- Folk
- Square
- Contemporary – line/aerobic

PHYSICAL FITNESS
- Warm up exercises relevant to activity testing of fitness components
- Upper and lower body training stretch bands
- Developing aspects of fitness, e.g.
  Jogging skills
  Rope skipping
  Etc.

SPECIAL ACTIVITIES, e.g.
- Obstacle course
- Orienteering
- Project adventure
- Field day experience
- Flexibility
- Problem solving

SELECTIVE UNIT
- Games of low organization
- Sports activities
- Clubs
- Fitness development
- Dance

CIRCUIT TRAINING, e.g.
Fundamental skill development
- Soccer
- Volleyball
- Basketball
- Floor hockey
- Cross country
- Track
- Etc.
MUSIC

RHYTHM
- Review Awareness of rests
- Discover Functions of meter sign
  Feeling duration of quarter, eighth and sixteenth notes
- Awareness of syncopation
- Identify by ear music that moves in 2-3-4

MELODY
- Develop Singing a melody by sight
  Awareness of major and minor
  Creating a song

HARMONY
- Reinforce hearing harmony
- Discover the key of C-G-D
- Playing and singing harmony parts

FORM
- Reinforce Feeling duration of a phrase
  Identify repetition of themes by ear
  ABA form
  Themes and variation

EXPRESSIVE QUALITIES
- Review and reinforce Tempo and dynamics
  Mood
  Singing
- Introduce Choosing appropriate tempo and dynamics to express mood and idea
  Hearing contrasts in mood
  Feeling tempo changes

LISTENING SKILLS
- Cultural differences of music
- Selections of appropriate recordings
- Introduce instruments

FOLK SONGS
- Repertoire
- Heritage songs

MUSIC IN AMERICA
- Pioneer songs

AMERICAN POPULAR MUSIC
- Current popular songs

OPERA, OPERETTA, AND ORATORIO
- Selections from an opera, operetta and oratorio

LIBRARY MEDIA

LOCATION/CARD CATALOG
- Understands the electronic card catalog are indexes to many collections
- Understands the card catalog is an index to collection
- Locates materials using call numbers
- Locates materials by author, title and subject in the card catalog

FICTION AND NON FICTION
- Understand difference
- Knows various kinds of fiction
- Uses non-fiction as a source of information

BIOGRAPHICAL SOURCES
- Define biography and autobiography
- Locate specific biography
- Knows the difference between individual and collective biographies

PERIODICALS
- Familiar with publications of varying scope and purpose
- Sources of current information

RESEARCH AND REPORTING TECHNIQUES
- Locates information in a general encyclopedia
- Locates non-fiction books on a specific topic
- Research using more than one source

EVALUATION AND SELECTION TECHNIQUES
- Understands different forms of literature
- Knows authors and their works
- Can select material for leisure reading
- Selects material for various purposes

DEWEY DECIMAL SYSTEM
- Understand the purpose of the Dewey Decimal System
- Understands ten main classes

REFERENCE COLLECTION
- Determine appropriate reference source
- Encyclopedia as a source of Charts
  Maps
  Drawings
  Photographs
  Diagrams
  Bibliographies

LITERATURE APPRECIATION
- Knows the forms of literature
- Interprets meaning from many forms

INDEXES
- Locate information on a subject
- Locate information in an encyclopedia from class assignments

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