DATA, GRAPHS AND STATISTICS
- Read graphs
- Compare within a graph
- Misleading relationships
- Scatter plots
- Trends
- Tally and frequency charts
- Line plot
- Stem-and-leaf diagrams
- Mean, median, mode
- Outliners

WHOLE NUMBERS
- Place value
- Standard, word, and word-number form
- Rules for rounding
- Compare and order
- Exponents to express large numbers
- Exponents in standard form
- Mental math using patterns, the distributive property, compatible numbers and compensation
- Order of operations
- Numerical patterns

ALGEBRA AND INTEGERS
- Variables and constants
- Evaluate expressions
- Translation
- Equations
- Identify and order integers
- Opposites
- Add, subtract, multiply and divide integers
- Ordered pairs

DECIMALS
- Decimal notation
- Round
- Compare and order
- Measure with a metric ruler
- Scientific notation
- Estimate sums, differences, products and quotients
- Add, subtract, multiply and divide equations

NUMBER THEORY
- Rules of divisibility
- Prime and composite
- Prime factorization
- Least common multiple

GEOMETRY
- Lines, rays, segments
- Intersecting, parallel, perpendicular
- Name and classify angles
- Classify triangles by sides and angles
- Classify polygons
- Classify quadrilaterals
- Reflections, translations, rotations
- Lines of symmetry
- Rotational symmetry
- Classify solids

MEASUREMENT
- Perimeter
- Convert metric units
- Convert customary units
- Measure in the metric system
- Area of squares, rectangles, triangles, circles, parallelograms, irregular figures
- Circumference of a circle
- Surface area using a net or formula
- Volume of a rectangular prism using unit cubes or the formula

FRACTIONS AND MIXED NUMBERS
- Lowest terms
- Convert between improper fractions and mixed numbers
- Convert between fractions and decimals
- Compare and order
- Estimate sums, differences, products, quotients
- Add and subtract with like or unlike denominators
- Equations with fractions
- Add and subtract mixed numbers
- Multiply and divide

RATIO, PERCENT AND PROBABILITY
- Write ratios
- Equivalent ratios
- Rates
- Proportions
- Unit rates
- Cross products
- Express percents
- Estimate percents
- Percent of a number
- Convert between fractions, decimals, percents
- Find the whole given the percent and a part
MATH (Continued)

PROBABILITY
- Of an event
- From sample data
- From geometric models
- Tree diagrams
- Compound event
- Fairness

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

READING

COMPREHENSION STRATEGIES
- Context
- Dictionary (word meanings and pronunciation)
- Skimming material
- Identifying tone, mood and emotion
- Noting important details
- Main idea
- Vocabulary reinforcement
- Sequence (words and events)
- Drawing conclusions
- Following directions
- Visualization
- Predicting outcomes
- Cause and effect
- Fact and opinion

LITERACY SKILLS
- Fiction
- Non-fiction
- Different types of fiction and non-fiction
- Recognizing play form
- Recognizing poetry
- Setting
- Plot
- Theme
- Comparing literary words

LANGUAGE ARTS

SPEAKING AND LISTENING SKILLS
- Following directions
- Using voice effectively

WRITING
- The writing process
- Writing effective paragraphs
- Writing effective compositions
- Persuasive
- Essay writing
- Response to literature
- Poetry
- Writing letters, friendly and business

GRAMMAR USAGE AND MECHANICS
- Parts of speech
- Nouns / Pronouns
- Verbs
- Adjectives
- Adverbs
- Prepositions
- Conjunctions
- Simple and compound sentence structure
- Direct and indirect objectives
- Punctuation
- Capitalization

VOCABULARY AND SPELLING
- Developing vocabulary
- Improving spelling
- Reinforce and extend prefixes, suffixes and word roots
SOCIAL STUDIES

TOWARD CIVILIZATION
- The beginning of Human society
- The Fertile Crescent

ANCIENT EGYPT AND NUBIA
- Ancient Egypt and Nubia
- Ancient India
- Ancient China

ANCIENT GREECE
- The rise of Ancient Greece
- The glory of Ancient Greece

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

SCIENCE

SCIENTIFIC PROCESSES
- Habits of the mind
  - Discuss methods scientists use
  - Science investigations
- Inquiry and problem solving
  - Develop strategies and skills for information gathering and problem solving using appropriate tools and techniques
- Safety
  - Understand and practice safety procedures for conducting science investigations

SCIENCE AND SOCIETY
- Cultural contributions
  - Discuss how people in different cultures have made and continue to make contributions to science and technology
- Historical perspective
  - 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
- Patterns and algebra
  - Identify patterns when observing the natural and constructed world
- Data analysis and probability
  - Use tables and graphs to 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
- Nature and technology
  - How measuring instruments are used to gather information
- Technological design
  - Identify the basic components of a technological system: Input, Process, Output, Feedback
  - Use the design process to identify a problem, look for ideas, and develop and share solutions with others
CHARACTERISTICS OF LIFE
- Matter, Energy and Organization in living systems
- Role organisms serve in a food chain
- Differentiate between the needs of plants and animals
- Recognize that plants and animals are composed of different parts performing different functions and working together for the well being of the organism

EARTH SCIENCE
ATMOSPHERE AND WATER
- The water cycle
- Sources of water: oceans, rivers, lakes, underground sources, glaciers
- Characteristics of the ocean
- Lives in the ocean
- Weather changes and patterns
- Makeup of the atmosphere
- What is weather
- Tracking severe storms

ASTRONOMY AND SPACE SCIENCE
- Earth, Moon, Sun
- Phases of the moon
- Solar system
- Stars
- Galaxies and universe

ENVIRONMENTAL STUDIES
- Natural systems and interactions
  - What are natural resources
  - How natural cycles affect ecosystems
  - How humans affect ecosystems

CONSUMER LIFE SKILLS

FOODS AND NUTRITION
- Relationships of diet, physical health and well being
- Identify vitamins and minerals
- Food preparation
- Analysis of student’s diet
- Food pyramid
- Graphing nutrients
- Balancing menu as to nutrition, color, texture, flavors

BASIC FOOD CONCEPTS & USE OF EQUIPMENT
- Identify equipment and use
- Use of electric range
- Measures
  - Liquid and solid ingredients
  - Following recipe directions
- Table setting

SEWING SKILLS
- Knowledge to repair and construct clothing
- Identify and use tools and equipment
- Use and care of sewing machine
- Complete a sewing project
- Quilt a square for donation as a quilt to the welfare department

FAMILY LIVING
- Demonstrate responsible behavior

CONSUMER EDUCATION
- Evaluate information on food packaging
- Advertising

VIDEOPHOTOGRAPHY

INTRODUCTION TO VIDEO PRODUCTION

TECHNOLOGY -1
- Use of camera equipment
- Use of character generator

SCRIPT PREPARATION-1
- How to choose academic subject matter
- How to choose appropriate format
- Creating story boards
- Electronic/traditional topic research
- Incorporate facts into script writing

PUBLIC SPEAKING-1
- Stage presence
- Voice control
- Body language
- Dramatic coaching

STUDY SKILLS

- Use indexes of various types of encyclopedias
- Use and almanac to find statistics and facts
- Use an atlas to locate places
- Be familiar with periodical indexes
- Use biographical dictionaries
- Use geographical dictionaries
- Research a topic using more than one source
- Make a bibliography of sources used in a report
- Will proofread assignments
- Practice test-taking techniques
- Introduced to an outline
- Practice note taking
HEALTH

SAFETY
- Review and discuss
  - Safety rules
  - Traffic
  - Play
  - Fire
  - Vehicle
  - Home
  - School
- Technology for safe production and use
- Proper storage techniques

DISEASE PREVENTION
- Agents contributing to disease pollutants
  - Environment
  - Heredity
- HIV/AIDS

FAMILY LIFE EDUCATION
- Family membership gives pride and a sense of belonging
- Healthy resolutions for conflict
- Family living
- Parenting
- Child care
- Growth
  - Emotional
  - Social
  - Physical
- Review of puberty
- Physiology of Reproduction
  - Weather
  - Poison
  - Accident prevention
- Basic first aid program
- Substance abuse treatment
- Substance abuse prevention

DENTAL HEALTH
- Dental care
- Tooth and gum problems
- Dental treatment

NUTRITION
- Daily nutrient intake
- Key nutrients
- Functions
- Sciences and problems with deficiency
  - Drugs
  - Congenital problems
  - Problems related to aging process
  - Abnormal cell growth
- Body defense
- Public health responses to various diseases

INDUSTRIAL ARTS

MECHANICAL DRAWING
- Identify and use equipment and tools
- Learn types of drawing

GRAPHIC ARTS
- Learn usefulness of process
- Exploration of process

PLASTICS
- Importance of the technology
- Necessary tools

WOODWORKING
- Basic skills
ART

DRAWING AND PAINTING
• Figure
• Animals
• Landscape
• Still life
• Poster
• Cartooning
• Mural
• Stained glass designing

CUT AND PASTE
• Mosaic
• Burlap banner
• Heraldry

PRINT MAKING
• Mono-print
• Stamping
• Vegetable
• Gadget
• Stencil

SCULPTURE, CERAMICS AND COLLAGE
• Assemblage
• Clay
• Paris craft

WEAVING AND STITCHERY
• Macramé
• Dovetail
• Open weave

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

COMPUTERS

DEVELOPMENTAL HISTORY OF COMPUTER
• Early devices
• Famous scientists
• Better methods
• Comparison with modern calculators

COMPUTER AWARENESS
• Know parts of a computer
• Identify parts of a computer
• Terminology
• Function of components
• Hardware and software
• Run prepared software
• Care of equipment

KEYBOARD AWARENESS
• Show awareness of all key locations
• Demonstrate proper positioning

KEYBOARDING
• Keyboard technique
• “touch” control technique
• Alphabet keys
• Correct key striking
• Key to key movement
• Increasing speed
• Software and open screen approach
• Reinforcement
• Importance of keyboarding

WORD PROCESSING
• Word processing and keyboarding
• Purpose of word processing
• Terminology
• Information usage
• Desktop vs. file
• Software
• Simple tasks

KEYBOARD AWARENESS
• Draw
• Paint, Kid Pix
• Simulations and presentation
• Multimedia programs
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
- Etc.

MUSIC

RHYTHM
- Introduce
  - Patterns and signs
  - Notation symbols
  - Definitions
  - Treble and bass staff
  - Major and minor
  - Treble and bass clef

MELODY
- Melodic line, step, skip
- Pentatonic scale

HARMONY
- Various chord progressions

FORM
- Introduce
  - Instrumentation
  - Comparison with music of today
  - Awareness of changing
  - Forms throughout music history

EXPRESSION QUALITIES
- Review and reinforce
  - Tempo and dynamics
  - Mood
  - Song lyrics to expressive 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
- Review instruments

FOLK SONGS
- Regional and world differences
- Origins of folk songs
- Singing folk songs

MUSIC IN AMERICA
- Introduce
  - The American Stage
  - Broadway musical

AMERICAN POPULAR MUSIC
- Introduce
  - Swing era
  - Be-Bop era
  - Rock and roll eras (50’s, 60’s, and 70’s)

OPERA, OPERETTA, AND ORATORIO
- An opera
LOCATION/ELECTRONIC CARD CATALOG
- Understands how to perform author, title and subject searches
- 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
- Interprets drawer labels
- Uses cross reference

FICTION AND NON FICTION
- Understands the difference
- Knows various kinds of fiction
- Has read each type of fiction
- Uses non-fiction as a source of information

DEWEY DECIMAL SYSTEM
- Understand the purpose of the Dewey Decimal System
- Understands ten main classes
- Understands function of the decimal point
- Understands ten main classes divided into specific subjects
- Understands call numbers
- Understands Library of Congress used in universities and large libraries

REFERENCE COLLECTION
- Characteristics (content and usage)
- Almanac
- Atlas
- Dictionaries
- Special subject dictionaries
- Encyclopedia yearbook
- Determine source of appropriate for a specific purpose
- Knows sources are referred to, not completely read
- Uses a variety of reference sources
- Uses index in an encyclopedia

BIOGRAPHICAL SOURCES
Can locate and use:
- Types of biographical materials
- Individual biographies
- Collective biographies
- Biographical dictionaries

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

- Can be use the Abridged Reader’s Guide to Periodical Literature

VERTICAL FILES
- Types of materials
- Locate appropriate materials

AUDIOVISUAL MATERIALS
- Variety of formats
- Locate materials using the card catalog
- Operate equipment

EVALUATION AND SELECTION TECHNIQUES
Understands:
- Various forms of literature
- Authors and their works
- Use parts of a book to determine Scope
- Format
- Timelines
- Uses parts of a book to locate and document information
- Develops discrimination in selecting books, periodicals, films, and television programs

RESEARCH AND REPORTING TECHNIQUES
- Develops a question to research a topic
- Locates materials about a topic
- Makes a bibliography

LITERATURE APPRECIATION
- Knows various forms of literature
- Interprets meaning from various forms of literature