MATH

DATA, GRAPHS AND STATISTICS
- Line plots
- Stem-and-leaf plots
- Mean, median, mode
- Box-and-whisker plots
- Bar and line graphs
- Surveys and samples
- Trends

ALGEBRA AND INTEGERS
- Compare and order
- Absolute value
- Add, subtract, multiply and divide
- Expressions
- Distributive property
- Ordered pairs
- Exponential and scientific notations
- Use formulas
- Inverse operations
- One- two- and multi-step equations
- Inequalities
- Solutions to two variable equations
- Graph linear equation
- Functions

RATIO, PROPORTIONS, PERCENTS
- Ratios and rates
- Equivalent rates and ratios
- Solve proportions
- Scales and scale drawings
- Convert among fractions, decimals and percents
- Missing percents, parts and wholes
- Percent increase or decrease
- Simple and compound interest

RATIONALS AND IRRATIONALS
- Divisibility rules
- Greatest common factor
- Least common multiple
- Compare and order rationals
- Add, subtract, multiply and divide rationals
- Square roots and perfect squares
- Irrational square roots
- Pythagorean Theorem

COUNTING AND PROBABILITY
- Tree diagrams
- Counting when order is or is not important
- Theoretical and experimental probabilities
- Independent and dependent events

GEOMETRY AND MEASUREMENT
- Map coordinates using latitude and longitude
- Draw, measure and identify angles
- Parallel and perpendicular lines
- Classify polygons
- Three dimensional figures
- Area and perimeter
- Affect of dilation
- Volume of prisms, cones and cylinders
- Similar and congruent figures
- Lines of symmetry
- Transform, reflect and rotate figures

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

CONSUMER LIFE SKILLS

COOKING
- Safety rules
- Cleanliness
- Table manners
- Use of food tools
  - Stoves and Mixers
- Practical applications of food techniques
- Liquid-solid measuring
- Following directions
- Demonstration of projects
- Published cookbooks
- Entertaining

NUTRITION
- Knowledge of food and nutrition/food pyramid
- Balancing meals according to food pyramid vitamins and minerals and relative to individual
- Basal metabolism
- Anorexia and Bulimia
- Publish home economic/nutrition hotline

CONSUMER EDUCATION
- Current trends in consumerism
- Supermarket shopping project
LANGUAGE ARTS

GRAMMAR USAGE AND MECHANICS
• Parts of speech
• Usage
• Capitalization
• Punctuation
• Spelling

WRITING PROCESS
• Prewriting
• Drafting
• Revising
• Editing and proofreading
• Composing the final copy
• Writing and effective paragraph
• Sentence structure
• Different sentence structures
• Fragments
• Sentence combining
• Parallel sentence structure
• Modifiers

WRITING FORMS
• Personal narratives
• Expository
• Persuasive writing
• Description
• Friendly letters
• Business letters
• Research reports
• Poetry conventions and figurative language
• Journal writing
• Free writing
• Newspaper writing
• Movie reviews
• Responding to a picture, illustration, artwork
• Creating a story
• Writing a biography
• Writing an autobiography
• Writing dialogue
• Extending a story
• Maintain a writing folder
• Collaborative writing

READING AND LITERATURE
• Print awareness
• Phonological awareness
• Phonics and decoding
• Word structure
• Word meaning
• Prereading strategies
• Maintaining strategies
• Skills and strategies

SOCIAL STUDIES

ANCIENT ROME
• The rise of Ancient Rome
  The Roman Republic
  The Roman Empire
• The glory of Ancient Rome
  Roman daily life
  Christianity and the Roman Empire
  The fall of Rome

REGIONAL CIVILIZATIONS
• Byzantine and Muslin Civilizations
  The Byzantine Empire
  The beginnings of Islam
  The golden age of Muslim civilization
• Civilizations in Africa
• Civilizations in Asia
  The golden age of China
  Medieval Japan
  The Great Mughal Empire in India

AGE OF ENCOUNTER
• Europe in the middle ages
  Feudalism and the Manor system
  The Crusades
  The power of kings
• The Renaissance and Reformation
  The Renaissance begins
  Martin Luther and the Reformation
  Reformation ideas spread

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 mind
  Evaluate the strengths and weaknesses of data, claims, and arguments
- Scientific Method
- Inquiry and problem solving
  Identify questions and make predictions that can be addressed by conducting investigations
  Design and conduct investigations incorporating the use of a control
- Safety
  Understand and practice safety procedures for conducting science investigations

SCIENCE AND SOCIETY

- Cultural contributions
  Recognize that scientific theories:
  Develop over time, depend on the contributions of many people, and reflect the social and political climate of their time
  Describe how people from different cultures have made contributions to science and technology
- Historical perspectives
  Describe the impact of major events and people in the history of science and technology
  Discuss the significant technological achievements in which science has played an important part
  Describe the historical origin of important scientific developments such as atomic theory, genetics, and plate tectonics

MATHEMATICAL APPLICATIONS

- Numerical operations
  Express quantities using appropriate number formats, such as: decimals, percents, scientific notation
- Geometry and measurement
  Mathematical computations using labeled quantities
  Express answers in correctly derived units
- Patterns and algebra
  Express physical relationships in terms of mathematical equations derived from collected data
- Data analysis and probability
  Represent mathematical relationships using graphs and tables
  Analyze experimental data using mean, median, and mode
  Use computer spreadsheets, graphing and database applications to assist in quantitative analysis of data

NATURE AND PROCESS OF TECHNOLOGY

- Science and technology
  Compare and contrast science and technology

INDUSTRIAL ARTS

SAFETY

- Review

MACHINERY

- Review

HAND TOOLS

- Introduction to tools not used in grade seven

POWER TOOLS

- Demonstration of finishing sander and belt sander
- Additional use of router

FINISHING

- Introduction to spray finishing
VIDEOGRAPHY

VIDEO PRODUCTION

TECHNOLOGY - III
• Use of camera equipment
• Use of character generator
• Use of special effects generator
• Use of sound equipment

SCRIPT PREPARATION - III
• 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 - III
• Stage presence
• Voice control
• Body language
• Dramatic coaching
• Sequencing information

VIDEO CONSUMERISM
• Evaluation of student production
• Evaluation of commercial production
• Using production skills for independent academic presentations

VIDEO CONSUMERISM
• Prepare morning show script
• Gather appropriate news items
• Plan and prepare feature interviews and reports
• Broadcast daily
• Organize talent and tech teams

HEALTH

SAFETY
• Responsible personal behavior
• Alcohol and driving
• Legal aspects of substance abuse
• Response to emergencies
• First aid review
• Drugs, alcohol and tobacco and effects on the body and mind
• Help for substances
• Artificial respiration
• Child abuse
• Sexual abuse
• Assault prevention

NUTRITION
• Organizations and plans to solve world hunger
• Consumer guides
• Careers in health
• Safety in food handling
• Preparation
• Influences on food
• Public health agencies

DISEASE PREVENTION
• Health care systems
• Medical advances
• Sexually transmitted diseases
• Mental illness
• Public health concern
• Maintaining well being
• Personal health concern including physical, emotional and social
• Complimentary medicine

FAMILY LIFE EDUCATION
• Review functions of Family
• Review problems of child abuse and protective services
• Review decision making and communication skills
• Introduce assertiveness skills, adjustments
• Adjustments in family living
• Human relations
• Review concepts of
  Maturity
  Self-esteem
  Coping with stress
  Dating
  Responsible personal behavior relative to drugs, alcohol, tobacco, and sexual behavior
• Understanding social, emotional, as well as physical growth and development
• Sexually transmitted diseases – signs and care
• Review process of reproduction, parenting skills, pre- and post-natal care
• HIV/AIDS

DENTAL HEALTH
• Oral safety
• Problems

STUDY SKILLS
• How to use a textbook
• Use the SQ3R method
• Practice good study habits
• Practice note taking and summarizing skills
• Use test-taking strategies
• Practice research skills
COMPUTERS

DEVELOPMENTAL HISTORY OF COMPUTER
• Concepts from 6th and 7th grade

COMPUTER AWARENESS
• Know parts of a computer
• Identify, locate and use parts of a computer
• Recognize and understand terminology
• Understand function of components
• Hardware and software
• Run prepared software
• Care of equipment
• Use of peripherals

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

KEYBOARDING
• Review keyboard technique
• Review alphabet keys
• Practice
• Type paragraphs
• Number and special symbol typing
• Timed paragraph typing
• Software and open screen approach
• Importance of keyboarding
  Re: electronic communication
• Extend and reinforce concepts and skills

WORD PROCESSING
• Extend skills and concepts
• Use software programs
• Use computer as a word processor
• Generate documents
• Combine keyboarding and word processing for
desktop publishing
• Use a personal communicative device
• Mail merge

DATABASES
• Identify parts of a database
• Terminology
• Create databases
• Use databases
• Organizing information

SPREADSHEETS
• Identify parts of a spreadsheet
• Terminology
• Purpose of spreadsheets
• Create spreadsheets
• Use a spreadsheet
• Integrate all applications
• Problem solving

PROGRAM AWARENESS
• Use draw and paint program
• Work with simulations
• Multimedia presentation program

ART

DRAWING AND PAINTING
• Pencil portrait
• Landscape
• Ink still life
• Chalk abstract
• Watercolor
• Cubism
• Design theory

CUT AND PASTE
• Collage
• Assemblage
• Cellophane
• Paper

PRINT MAKING
• Gadget
• Styrofoam
• String
• Calligraphy
• Wood
• Stamp

SCULPTURE, CERAMICS AND COLLAGE
• Clay
• Sculpture
• Cardboard
• Material
• Wood

EXPRESSION
• Art history appreciation
• Lessons – related to hands on activity
• Color vocabulary
• Effect of light and shadow
• Space forms
• Perspective
• Line use
• Movement and relationship to environment
• Relation between all elements
PHYSICAL EDUCATION

SPORTS ACTIVITIES

REGULATION GAMES OF CONTEMPORARY AND TRADITIONAL SPORTS, e.g.
- Soccer
- Volleyball
- Basketball
- Floor hockey
- Track and field
- Softball
- Flag football
- Ultimate football
- Bowling
- Bocci ball
- Cross country
- Etc.

GAMES OF LOW ORGANIZATION
Small and large group games, e.g.
- Games unit
- Scooter activities
- Circuit games

DANCE
- Folk
- Square
- Contemporary – line/aerobic
- Social

PHYSICAL FITNESS
- Warm up exercises relevant to activity testing of fitness components
- Flexibility
- Developing aspects of fitness, e.g.
  - Jogging skills, weight training, rope skipping, etc.

SPECIAL ACTIVITIES, e.g.
- Obstacle course
- Orienteering
- Project adventure
- Problem solving
- Class trips

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

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

MUSIC

MELODY
- Recognizing themes

FORM
- Review
  - The Classic Period sonata
  - Augmentation
  - Fragment
  - Sequence
  - Inversion
  - Petrograde
  - Diminution

EXPRESSIVE QUALITIES
- Review and reinforce
- Being aware of
  - Tempo and dynamics
  - Mood
  - Song lyrics to expressive singing

LISTENING SKILLS
- Survey music history with appropriate recordings

FOLK SONGS
- Place of folk songs in music literature

MUSIC IN AMERICA
- Introduce
  - Music of various decades of 20th century
  - Qualities of music
  - Electronic music
  - Compositions of electronic music

AMERICAN POPULAR MUSIC
- Introduce
  - Jazz to Rock
  - Melodically
  - Rhythmically
  - Harmonically
  - Form
  - Color (timbre)

OPERA, OPERETTA, AND ORATORIO
- Introduce
  - Basic vocabulary
  - History
  - Composers
  - History of music theater
  - Opera and Broadway