

## ENGLISH LANGUAGE ARTS

### Listening

- Listen respectfully to peers and adults
- Listen to various forms of literature
- Listen to different sources of the spoken word (storytellers, oral presentations by classmates, books, tapes, etc.)

### Speaking

- Expand verbal vocabulary
- Speak in a respectful manner
- Use appropriate gestures and body language
- Share creative writing and oral reports and respond to audience feedback
- Express appreciation for others' ideas
- Give tactful, constructive criticism
- Develop storytelling skills

### Writing

Writing process:

- Brainstorm, pre-write, organize, write, confer, revise, rewrite, share

Genres:

- Essay to inform, narratives, response to literature, reflective essay, poetry, letter writing, memoir
- Structured worksheets
- Writing in all subjects (explain math problems or science experiments)

Grammar, Usage, and Mechanics:

- Write using paragraphs
- Edit for correct use of capitals and end punctuation
- Use commas and apostrophes in more advanced ways
- Review nouns, verbs, adjectives and adverbs
- Learn about verb tenses, conjunctions, complex sentences

Spelling and Word study:

- Begin vocabulary with classical roots, suffixes and prefixes
- Review advanced phonetic patterns
- Learn 300 most frequently used words

Handwriting and Typing:

- Use cursive for selected assignments
- Weekly typing practice (in school and at home)
- Develop word processing skills

### Reading

Reading Skills:

- Develop and improve fluency and comprehension
- Review phonological awareness
- Consolidate syllable rules
- Review advanced prefixes and suffixes
- Learn meanings of words with Greek, Latin, and Anglo-Saxon roots

Reading Comprehension:

- Read and distinguish between various genres of literature
- Compare and contrast books
- Read and follow directions independently
- Identify plot elements and main ideas
- Recognize fact and fiction
- Identify literal and figurative language

### Core Literature Studies

Teacher Read-Aloud Books:

Bridge to Terabithia (Regional America), The Magician's Nephew (Fantasy), The Lightning Thief (Greece)

Genre Studies:

Biography, historical fiction, fantasy, mythology, poetry

## MATHEMATICS

### Numbers and Number Relationships

- Add, subtract, multiply and divide and demonstrate the inverse relationships between them
- Read, write, and compare whole numbers, fractions, and decimals using  $<$ ,  $>$ ,  $=$
- Know place value to a million, decimals to hundredths
- Round whole numbers to 10,000, decimals to hundredths
- Use the distributive properties, and the identity properties of zero and one
- Recognize odd, even, prime, and composite numbers
- Use the divisibility rules for 2,3,5,9,10
- Understand the concept of factors and multiples
- Continue work with fractions (add, subtract, multiply, divide, improper fractions, mixed numbers)

### Computation and Estimation

- Use appropriate method for computing (mental math, paper and pencil, calculator, computer)
- Use appropriate strategies to learn math facts
- Add and subtract 4-digit whole numbers and decimals with regrouping
- Multiply whole numbers and decimals with regrouping (3-digit by 2-digit)
- Divide 3-digit numbers by 2-digit numbers
- Solve one, two and three step word problems
- Use estimation and rounding when appropriate

### Measurement

- Review, use and apply standard and metric measurements (length, weight, volume, temperature)
- Convert units within a system of measurement (in., ft., mm., cm., sec., min., etc.)
- Understand coin values and make change

### Geometry

- Identify and understand various terms of geometry (point, line, parallel, perpendicular, arc, sphere, etc.)
- Classify angles
- Identify and classify polygons
- Identify the center, radius, diameter and circumference of a circle
- Understand area and perimeter
- Use a compass

### Data Analysis, Statistics and Probability

- Gather, organize, analyze data
- Interpret data using the mean, median, mode and range
- Read, interpret and construct bar and line graphs
- Predict, and perform simple probability experiments
- Use calculators and/or computers to process data

### Problem Solving

- Approach problem solving systematically and creatively
- Apply various strategies in the problem solving process
- Develop flexibility, confidence, perseverance, and persistence both independently and in groups
- Use concrete, informal and formal strategies to solve mathematical problems in real-world situations

### Patterns, Functions and Algebra

- Recognize and create a wide variety of patterns
- Translate simple English phrases into algebraic expressions
- Use order of operations to solve equations
- Understand the use of variables in equations

## SCIENCE

### Inquiry and Process Skills:

- Reinforce K–4 skills plus:
- Analyze data, verify information, experiment. plan experiments, use equipment to collect data, record data in a variety of ways, discuss and analyze data, control and manipulate variables, invent, validate reliability of results, generalize, make inferences, use knowledge to solve problems, expand knowledge to analogous situations

### Content:

#### Physical Science

##### Chemistry:

- Structure – atoms, molecules, elements, compounds
- Properties – volatility, magnetic
- Chemical change – heat, iodine, vinegar
- Physical change – dissolving, evaporating

##### Density:

- Liquids and solids
- Volume (weight and density)
- Temperature
- Viscosity

##### Heat:

- Conduction
- Boiling and freezing points
- Physical change and volume

##### Engineering:

- Bridge building

#### Life Science

##### Rivers, Streams, Watersheds:

- Aquatic Organism Study
- Benthic Macroinvertebrates
- Habitat
- Adaptations
- Life Cycle
- Water Quality Testing & Data Analysis

##### Health

- Digestive system
- Growth and Development
- Unhealthy Substances
- HIV

## SOCIAL STUDIES

### Geography

#### Major components of study:

- Map Skills
- U.S. Regions
- Geographic terms
- Imaginary Worlds
- Rivers
- Greece
- Europe in the Middle Ages
- Map reading and making

### Ancient Civilization: Greece

#### Major components of study:

- The Odyssey
- Greek geography and mapping
- Ancient Greek culture – architecture, drama, rise of democracy, athletics, philosophy, way of life

#### Skills:

- Listening, speaking, reading and writing (creative and expository)
- Research, including use of library
- Higher-level thinking skills

### Middle Ages: Europe

#### Major components of study:

- Historical timeline
- Geography of Western Europe
- Culture – pageantry, way of life, castles, knights, warfare, church/clergy, coat of arms
- Religious and social climate of the time
- Poetry, Ballads, Heroes, Legends

#### Skills:

- Listening, speaking, reading and writing (creative and expository)
- Research, including use of library
- Higher-level thinking skills

## LIBRARY SKILLS

### Use of the Dewey Decimal System

- Locate materials using call numbers
- Browse within a call number to find additional materials

### Use of the Reference Collection

- Use the atlas to locate places
- Know the almanac is a source of statistics and other facts

### Recognition and Use of Periodicals

- Know periodicals are a source of current information
- Use periodicals to get information on a given topic

### Use of the Biography Collection

- Know the different types of biographical materials and locate information in each

### Use of Indexes

- Locate information in an encyclopedia or a book using an index

### **Research and Reporting Techniques**

- Research a topic using more than one source
- Present information in a written report form and/or a visual/oral presentation
- Make a bibliography of author, title, publisher and copyright date

### Recognition of Parts of a Book

- Use the jacket flap to find information
- Identify the dedication and the glossary

### **Selection and Evaluation**

- Select materials for pleasure reading
- Discuss reactions to and evaluations of independent reading
- Discuss fantasy and modern fiction with peers
- Be familiar with Dorothy Canfield Fisher books

### **Literature Appreciation**

- Be acquainted with important authors and their works
- Describe how the main character changes from the beginning to the end of the story in modern fiction and fantasy
- Identify the climax of the story and events leading to it
- Describe the setting of a story
- Recognize the epic poem
- Recognize elements of a mystery

## INFORMATION TECHNOLOGY

### **Basic Operations and Concepts**

- Name, save and retrieve files on the network
- Cut, copy and paste between documents
- Practice keyboarding skills with a goal of 20 words per minute at 90% accuracy

### **Social, Ethical and Human Issues**

- Use correct posture and hand placement
- Respect the work of others
- Follow age-appropriate guidelines for safe use of technology and the internet
- Document electronic sources
- Respect the privacy of others

### **Technology Productivity Tools**

- Choose appropriate technology tools
- Use software to write, edit and publish
- Use database of books in the school library
- Use data to construct graphs
- Create a multimedia project
- Create original graphics for use in other projects
- Use programming tools to create simple animations

### **Communication Tools**

- Demonstrate multimedia presentation skills
- Create or contribute to a document for publication with digital text and images

### **Technology Research**

- Use online and digital resources
- Do supervised searches with a search engine
- Identify the authors of online sources

## SOCIAL SKILLS

### Civic and Social Responsibility

- Make informed decisions
- Be of service to community

### Communication

- Contribute to discussions
- Give and take feedback

### Personal Development

- Exhibit organizational skills
- Label and communicate feelings

## FRENCH

Rationale: To continue the development of communication skills in French and to enhance students' understanding and appreciation of the cultures of the Francophone world

Goal: To build oral/aural proficiency and to develop basic reading and writing skills

### Listening:

- Follow directions
- Take dictation of numbers, dates
- Understand and answer oral questions
- Understand spoken statements and books
- Follow along with listening activities in textbook, Alex et Zoé

### Speaking:

- Answer questions and make statements on topics introduced in class
- Express likes, dislikes, make requests
- Sing a variety of traditional French songs
- Present, create and memorize conversations

### Reading:

- Read familiar basic vocabulary from textbook and class activities

### Writing:

- Spell accurately a limited number of words, complete activities

Content Area: Expansion of topics begun in 4th grade and introduction to the following topics

- Numbers 69–100, 3 and 4 digit numbers
- Time and days of the week
- Body parts
- Rooms of the house
- Transportation
- Morning routines
- School subjects
- Family members
- Months of the year
- Weather
- Feelings

### Language Understanding:

- grammar, pronunciation and spelling patterns
- idiomatic expressions, commands, reflexive verbs, the date, possessive adjectives, plural nouns

### Culture:

- Continuation of study of the Francophone world, French geography and culture (including geography vocabulary in French); Versailles, Louis XIV, XVI and the French Revolution; French holidays and traditions; the Middle Ages in France (including cathedrals, castles, architecture and history)

## Grade 5 Art

In fifth grade, students are developing an awareness of the world around them. They are increasing their skills, and they are given the opportunity to experiment with more advanced processes, tools and materials. Among the many art projects are: Japanese writing journals, "Impressionist" water colors, ceramic self-portraits, personal coats of arms, Polish paper cutting, star books, contour drawings, stencils and action designs, Matisse inspired cutpaper action figures, wire sculptures, Valentine boxes, ancient Greek pottery, LEEEP habitat artbooks (rivers), and ArtStart.

## Grade 5 Music

The music program at the Marion Cross School is designed to help students develop the skills needed to realize a rewarding and joyful lifetime musical experience and to realize their own and other's innate ability and need to create.

In fifth grade the students continue work learning the language and notation of music and have a concentrated exposure to composition using music technology. They compose pieces and have a performance of their works. In the spring there is some form of collaboration with the Odyssey unit through creating original music. Listening to musical styles of many cultures is a component of this year. The students have the opportunity to begin learning an instrument from the band or orchestra, have lessons in school and join an ensemble when they are ready. They are also able to sing in the 5/6 chorus if they wish. As a culmination of the year they learn Morris Dancing and perform at Mayfest.

## Grade 5 Physical Education

The goal of the fifth and sixth grade physical education program is to help students enhance their physical skills and awareness, refine skills learned in grades 3 and 4, and practice good sportsmanship and team play. Students learn about and begin to take personal charge of the following: personal fitness and wellness (fitness tests, fitness activities and warm-ups), sportsmanship and social interaction (New Games, cooperative learning situations, problem solving skills, recognizing own strengths and strengths of others, accepting differences), locomotor skills (dance, gymnastics), non-locomotor skills (high and long jumping, balance activities), striking skills (volleyball, pickleball, paddle tennis, badminton, whiffleball), movement concepts (general and personal space, speed, force and flow of movement, offense and defense), and manipulatives of circus arts activities (juggling scarves, balls and clubs; spinning diabolos and plates). In addition they are introduced to and play modified games of lacrosse, whiffleball, volleyball, basketball, ultimate frisbee, and soccer. Track and field events are taught and practiced, and we continue to occasionally play some large group games.

## Grade 5 Guidance

The guidance program is designed to help students learn about themselves and others as well as to help them learn about getting along with others. The guidance counselor uses the Life Skills health/guidance curriculum to teach fifth graders about self-esteem, decision making, positive and negative stress, verbal/nonverbal communication, advertising, peer pressure, assertiveness, tobacco/drug/alcohol use, and HIV, and puberty. They use class discussions, role-playing, and writing to express themselves.