

## ENGLISH LANGUAGE ARTS

### LISTENING [New info 2012](#)

- Listen respectfully to peers and adults
- Listen to different sources and presentations of the spoken word
- Understand principles of active listening

### SPEAKING

- Expand verbal vocabulary
- Speak in a respectful manner
- Use appropriate gestures and body language
- Share own writing and respond to audience feedback
- Express appreciation for others' ideas
- Give tactful and constructive criticism
- Ask appropriate questions to seek information

### READING

#### **Reading Fluency and Comprehension:**

- Learn to use strategies to approach and understand a variety of reading tasks
- Read out loud a grade-appropriate text smoothly and with appropriate expression
- Learn research skills and read to gain information
- Read different genres of literature independently and with understanding
- Compare and contrast the literary elements and structure of text
- Interact with text by applying inferences, questions, connections
- Identify main ideas, themes, plot elements, details in text
- Interpret words and phrases, including literal and figurative language
- Recall details, summarize effectively, show cause and effect
- Analyze how and why characters, events, and ideas develop in text
- Understand writer's purpose and point-of-view to infer and draw conclusions
- Read and follow directions independently
- Distinguish fact from opinion

### WRITING

#### **Production**

- Produce clear and coherent writing appropriate to task, purpose, and audience
- Utilize initial writing activities, e.g. brainstorm, plan, and organize
- Strengthen ability to compose, revise, edit, confer, and polish independently
- Use technology to produce and publish writing as well as collaborate with others
- Write routinely over extended time frames for a range of tasks

#### **Writing Genres**

- Expressive and reflective passages; Creative non-fiction and memoir; Response to literature; Essays to inform, explain, persuade; Narrative stories; Poetry
- Writing in all subject areas

#### **Grammar, Usage and Mechanics**

- Master parts of speech including pronoun case and verb tenses
- Diagram basic sentences
- Understand synonyms, antonyms, and homonyms
- Consolidate general syntactic rules
- Write in varied and complete sentences
- Write in coherent paragraphs with supporting details, smooth transitions, and appropriate tone and voice
- Demonstrate command of standard conventions, including end punctuation, commas, and apostrophes
- Begin to use correct punctuation in dialogue

#### **Word Study and Spelling**

- Classical Roots Vocabulary study: Greek and Latin roots and affixes
- Acquire vocabulary knowledge in grade-appropriate subject areas
- Learn weekly spelling words
- Learn and correct misspelled words in written compositions
- Review phonological awareness and syllable rules
- Verify and determine meaning of word or phrase through context and consulting reference materials

### ***Handwriting and Typing***

- Write in cursive through weekly assignments
- Read cursive writing
- Practice typing and word processing skills through weekly assignments
- All final drafts produced in neat cursive or typing

# MATHEMATICS

## Numbers and Number Relationships

- Demonstrate the inverse relationship of addition and subtraction, multiplication and division
- Read, write, and compare whole numbers, fractions, decimals, integers and percents, ratios and proportions
- Know place value to a million, decimals to thousandths
- Round whole numbers to 1,000,000, decimals to hundred thousandths
- Use the commutative, associative and distributive properties, and the identity properties of zero and one
- Recognize odd, even, prime, composite, and square numbers
- Understand prime factors, greatest common factors, and least common multiples

## Computation and Estimation

- Add and subtract 5-digit whole numbers and decimals
- Multiply whole numbers and decimals with regrouping, with up to a 3-digit multiplier
- Divide 5-digit whole or decimal numbers by 2-digit whole or decimal numbers
- Add and subtract any three proper or mixed fractions
- Multiply any combination of fractions, mixed or whole numbers
- Divide fractions, mixed or whole numbers
- Introduce percent problems
- Solve one, two and three-step word problems
- Find equivalents of decimals, fractions, ratios and percents

## Measurement

- Measure length, perimeter, area, volume, circumference, surface area, and time
- Convert units within a system of measurement
- Estimate and measure angle degrees

## Geometry

- Classify angles
- Identify and classify polygons
- Identify the center, radius, diameter, and circumference of a circle
- Identify pyramids, spheres, cubes, cylinders, and rectangular prisms
- Use protractor and compass

## Data Analysis, Statistics and Probability

- Collect, organize, represent, and interpret data using lists, tables, graphs (bar, line and circle)
- Interpret data using the mean, median, mode and range
- Predict, perform, record and analyze simple probability experiments
- Use calculators and/or computers to process data

## Problem Solving

- Approach problem solving systematically and creatively
- 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

- Identify, describe and extend patterns
- Use order of operations to solve equations involving parentheses and exponents
- Use tables, graphs and verbal or symbolic rules
- Understand the use of variables in equations
- Solve simple algebraic equations
- Graph, describe and compare equations on a Cartesian grid

## SOCIAL STUDIES

### Historical Perspective and Sources

- The Meaning and Importance of History
- Timeline Project: use of timelines; creating life timeline; interpreting material culture
- Analyze Primary Source Artifacts: art, architecture, historical documents, maps
- Read “History of US” textbook and historical fiction independently
- Integrate visual information with print and digital texts

### World History

- The Age of Exploration, Discovery, and Encounter: Atlantic world
- Expansion of Worldview: the Colombian Exchange
- Amerindian tribes, African kingdoms and the slave trade
- Historical Geography of Americas: pre-Colombian to colonial

### U.S. History “From Colonies to Country”

- Spain, England, and France: a struggle for dominance
- North American eastern settlements: comparative study
- Salem witchcraft trials: historical fiction reading
- Implications of slavery
- The Revolutionary War: loyalist and patriot point-of-view; causes and reactions; specific significant battles; the aftermath; historical fiction reading
- Introduction to America’s historical documents: Declaration of Independence, Articles of Confederation, Constitution of the U.S., Bill of Rights
- American systems of government

### Research Skills – integrated with ELA

- conduct short and more sustained research projects based on focused questions demonstrating understanding of subject
- gather relevant information from multiple print and digital sources
- draw evidence from literary or informational texts to support research and learn to avoid plagiarism

### Study Skills

- read and reason from different sources
- analyze the structure of text and visuals in terms of organization and purpose
- ask specific and expansive questions on a grade-appropriate topic
- identify the main idea of a paragraph or essay
- select examples of supporting details illustrating a main idea

## SCIENCE

### Inquiry and process skills

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, validate reliability of results, invent, make inferences, use knowledge to solve problems, generalize, expand knowledge to analogous situations

### Content

#### Forces in Motion:

- Galileo’s pendulums
- Principles of pendulums
- Construction of pendulums Simple
- Six simple machines and how they work

#### Electricity:

- Simple, series and parallel circuits
- Materials and conductivity
- Resistance

#### Gases and Airs:

- Properties of air (composition, pressure, oxidation)
- Properties of vacuums (expansion, contraction)

#### Oceanography:

- Ocean waves, currents, sea water, sand, ocean floors,
- Man’s effect on the oceans
- Adaptations of life cycles

#### Brain:

- Anatomy and function
- Memory, laterality and language
- Color theory and visual perception

#### Genetics:

- Patterns of inheritance: punnet squares and pedigrees
- Nature vs. nurture

#### Health

- Reproductive System and Reproduction
- Drug Education/Substance Abuse
- HIV

## Social Studies (study skills cont)

- acquire and use accurately grade-appropriate academic and domain-specific words and phrases
- distinguish among fact, opinion, and reasoned judgement
- follow precisely a multi-step procedure
- initiate and complete assignment guidelines and planning
- record daily assignments in a homework planner
- complete daily assignments and turn them in on time
- make a plan with teachers to complete assignments missed due to tardiness or absence
- understand that people learn in different ways
- practice different strategies for learning success
- follow directions, written and oral
- work independently, carefully, and cooperatively

## 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 continue to develop the ability to read and write in French

Listening/Speaking:

- Engage in conversations about familiar topics
- Obtain information using simple questions
- Express likes and dislikes in complete sentences
- Memorize dialogues, songs and poems
- Express ideas and needs using familiar language

Reading/Writing:

- Read familiar basic vocabulary with correct pronunciation and intonation
- Write adaptations of basic dialogues
- Write short pieces about oneself, family and friends
- Write words based on what one hears (dictées)

Content Area: Expansion of topics begun in 4th and 5th grades, for example: basic expressions, weather, place names, nationalities, telling time and age, food and drink, colors, hobbies and activities, numbers, seasons, days, months, seasons, preferences, likes and dislikes

Language Understanding: Grammar, pronunciation and spelling patterns, possessive adjectives, prepositions, descriptive adjectives, common adverbs, verbs with infinitives, negation, conjugation of regular and irregular verbs, definite and indefinite articles, formation of questions, expressions with avoir and faire

Culture

European union and the use of the Euro, location of Francophone countries, French names of European countries, French cuisine, French education system, French-speaking African geography and politics, traditional and modern African music

## **SOCIAL SKILLS**

### **Civic and Social Responsibility**

- Stay current with work assignments
- Be of service to community

### **Communication**

- Advocate for self

### **Personal Development**

- Solve problems
- Negotiate and compromise

## **LIBRARY SKILLS**

### **Use of the Dewey Decimal System**

- Understand the 10 main classes of the Dewey Decimal System and that they can be divided and subdivided into more specific categories

### **Use of the Reference Collection**

- Use cross references in an encyclopedia to locate information
- Use an almanac to find statistics and other facts
- Use biographical and geographical dictionaries

### **Use of Indexes**

- Be aware of indexes in various places (books, encyclopedias, periodicals)
- Use cross-references in indexes

### **Research and Reporting Techniques**

- Take notes from reference and other resource materials
- Organize information into a usable format
- Present information in an in-depth written report and/or visual/oral presentation

### **Selection and Evaluation**

- Discuss reactions to and evaluations of independent reading
- Read and discuss Newbury Medal winners

### **Literature Appreciation**

- Be familiar with important authors and their works
- Describe impact of the historical period on the plot and characters of an historical novel
- Understand the relationship of African American folk tales to the condition of the American slave

### **Parts of a Book**

- Identify the appendix

## **INFORMATION TECHNOLOGY**

### **Basic Operations and Concepts**

- Name, save and retrieve files on the network
- Use strategies for solving routine hardware, software and printing problems
- Practice keyboarding skills with a goal of 25 words per minute at 90% accuracy
- Begin to understand operating system terminology and features
- Save documents to a personal storage device

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

- Use correct posture and hand placement
- Respect the privacy and work of others
- Follow the school's Acceptable Use Policy (AUP)
- Understand concepts of plagiarism and copyright law as they apply to words, music & images
- Document electronic sources using acceptable formats
- Practice personal safety measures when using technology and the internet

### **Technology Productivity Tools**

- Choose appropriate technology tools
- Create documents using a variety of formatting skills
- Use a variety of online databases
- Design spreadsheets using basic formulas, sort data and construct graphs
- Produce and present a multimedia project
- Create original graphics for use in other projects
- Use programming tools to create simple animations

### **Communication Tools**

- Discuss the use and dangers associated with emails and attachments
- Demonstrate multimedia presentation skills
- Create a publication using basic design and formatting concepts

### **Technology Research**

- Use a variety of online resources to research topics and obtain information and images
- Compare information from digital sources to choose the most appropriate
- Employ basic search strategies and begin to evaluate websites
- Identify the authorship and authority of online sources
- Compare and contrast information found on the internet for accuracy, relevance and objectivity

## Grade 6 Art

In their last year at the Marion Cross School, the sixth graders continue the tradition of adding their piece to the all-school art creation. The projects for the rest of the year involve longer, multi-tasked, intricate art forms. Students are encouraged to take time during the design phase of their projects as well as to work carefully creating their final products. These include: ceramic mirror frames, various types of sculpture, scenery for 6th grade plays, dyed paper and reed mobiles, design problems, Impressionist water colors, Inkle loom weaving, Shibori fabric dying, LEEP habitat artbooks (oceans), open studio art, as well as the traditional 6th grade "What's in Your Head?" silhouette drawings (displayed with their first grade self-portraits) and the most anticipated and remembered Gingerbread houses.

## Grade 6 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 sixth grade the students continue work learning the language and notation of music and have a concentrated exposure to composition using music technology. Through the use of technology, they also write and perform their own songs. In January we begin a study of American Opera and then create our own, culminating in a performance in April. Sixth grade students have the opportunity to take instrumental lessons, participate in band, orchestra and/or chorus and other small ensembles. Throughout the year they take leadership roles in "rep", the holiday concert and the May Festival.

## Grade 6 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, 4 and 5, 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 6 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 sixth graders about self-esteem, decision-making, stress management, active/passive listening, review of conflict resolution, assertiveness (passive/aggressive/assertive responses), tobacco/drug/alcohol use, and HIV, and reproduction. They use class discussions, role-playing, and writing to express themselves.