

## LANGUAGE ARTS

- I. Learning to Read Independently
  - Associate consonants and vowels with sounds
  - Apply phonics skills to independent reading
  - Select appropriate strategies to read independently
- II. Reading Critically in All Content Areas
  - Understand essential content of informational texts
  - Distinguish between essential and non-essential information
- III. Reading, Analyzing, and Interpreting Literature
  - Identify literary elements in stories such as characters, setting and plot
  - Read and respond to non-fiction and fiction including poetry and drama
- IV. Types of Writing
  - Write narrative, informational and opinion pieces with supporting description and details
- V. Quality of Writing
  - Write with a distinct focus
  - Organize writing in a logical order
  - Edit writing for spelling, capitalization, order and punctuation
- VI. Speaking and Listening
  - Listen attentively and respond appropriately to literature and class discussions
  - Speak using appropriate language patterns
- VII. Characteristics and Functions of the English Language
  - Identify words from other languages that are commonly used in English
- VIII. Research
  - Select a topic for research
  - Locate, organize and present information on a topic

## MATHEMATICS

- I. Numbers and Number Relationships
  - Count whole numbers to 999
  - Identify and apply number patterns
  - Recognize and understand fractions
- II. Computation and Estimation
  - Demonstrate knowledge of the basic facts to 20 in addition and subtraction
  - Solve problems using regrouping
  - Use estimation to solve a problem
- III. Measurement and Estimation
  - Tell time to five minute intervals
  - Measure objects using standard and metric units
- IV. Mathematical Reasoning and Connections
  - Use measurement in everyday situations
  - Make and verify predictions
- V. Mathematical Problem Solving and Communication
  - Use appropriate problem solving methods
  - Explain steps needed to solve a problem
- VI. Statistics and Data Analysis
  - Gather, organize and display data
  - Answer questions and make predictions using data
- VII. Probability and Predictions
  - Predict and measure the likelihood of the occurrence of a certain event
  - Use concepts like largest or smallest to analyze data
- VIII. Algebra and Functions
  - Use concrete objects to solve number sentences
  - Explain how to solve number sentences
  - Make concrete models of equations and inequalities
- IX. Geometry
  - Name, draw and identify two and three-dimensional geometric shapes
  - Identify symmetry

- X. Trigonometry
  - Identify and model right angles
- XI. Concepts of Calculus
  - Order whole numbers through 999
  - Continue number patterns through 999

## SOCIAL STUDIES

Second grade students will explore concepts involving local, state, and national government. They will study historical events and people that have made an impact on the past and present.

- I. Maps and Geography
- II. History
- III. Economics
- IV. Rules and Government

## SCIENCE

- I. Interaction of Animals/Classification – identify species of extinct and existing flora and fauna and compare differences and similarities in the animal kingdom
- II. Light and Color – investigate sources of light and its’ ability to determine color
- III. Earth Through Time – study dinosaurs to develop an understanding of past life on earth
- IV. Solar System – explore the earth and its’ connection within our solar system

## HEALTH

- I. Nutrition
- II. Dental health
- III. Mental health
- IV. Safety
- V. Personal hygiene

## ART

Kindergarten, first grade, and second grade students complete a three year art curriculum that rotates every year. Students learn art history, art across the cultures, and art involving everyday life. Students in second grade will:

- Practice listening and observation skills through a more complex set of directions
- Develop a fundamental art vocabulary to enable them to speak about art effectively
- Fully explore the elements of art and apply them to create their own successful pieces of art: line, shape, color, texture, form and space
- Continue to improve fine and gross motor skills by creating more complicated works of work, using various art processes and mediums: drawing, painting, building, sculpting, printmaking, etc.
- Continue to more successfully solve problems by creating pieces of art
- Improve social skills by working with other students in group discussions and projects.
- Effectively self-reflect on their artistic choices and problem solving skills
- Compare and contrast various pieces of art in a group discussion
- Explore in further detail the art of various historical periods in their chronological order: Pre-historic, Egyptian, Greek/Roman, Middle Ages, Renaissance, 19<sup>th</sup> & 20<sup>th</sup> century
- Explore in further detail the art of various cultures: Native American, Mexican, African, European and Asian
- Continue to realize the relationship between art with other subject areas and everyday life: math, science, social studies, music, and literature
- Continue to explore the global and historical significance of the visual arts

## MUSIC

- I. Develop music appreciation through listening and discussing the various elements they hear in the music
- II. Enhance learning and creativity through various experiences, including performing alone and with a group, both vocally and instrumentally
- III. Learn note values, and create and perform rhythm patterns to accompany songs
- IV. Read notes and discover melody lines
- V. Distinguish various forms of music
- VI. Enhance self-worth through the joys of making music, both alone and with a group

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## COMPUTER

- I. Computer Operations
  - Recognizing and applying fundamental computer terminology
  - Identifying and using basic computer input and output devices
  - Demonstrating proper care for technology equipment
- II. Computer Software
  - Opening/closing and utilizing developmentally appropriate software programs
  - Applying basic word processing skills
  - Creating simple graphics using painting and drawing programs

## PHYSICAL EDUCATION

Children will be taught various game activities such as running, hopping, tag, relays, and ball skills. They will learn and develop fundamental body movements, follow simple directions without help, develop a rhythmic sense, develop the ability to play with others, and keep in formation during a game. A major goal of the program is, of course, for children to acquire skills and knowledge that will form a firm foundation for later activities. In addition to regular physical education, the district offers ADAPTIVE PHYSICAL EDUCATION for children with specific needs.

## LIBRARY

Second grade students are introduced to the different kinds of books found in the library. The genres explored include biography, folktales, mystery, historical fiction, realistic fiction, nonfiction and poetry.

## SOCIAL GROWTH AND WORK HABITS

Children, within the limits of age and maturity, begin to accept the responsibility for learning and work well within a group.



**Firming up the foundations in basic skills**

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Muhlenberg Elementary Center  
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610-921-8028

**second grade**

See the building principal or teachers with questions about the curriculum.  
SECOND GRADE, 8/04

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