

## **LANGUAGE ARTS**

- I. Learning to Read Independently
  - Demonstrate fluency and comprehension in reading.
  - Establish a purpose for reading among various texts.
  - Use knowledge of phonics to acquire vocabulary.
- II. Reading Critically in All Content Areas
  - Read and understand texts and documents.
  - Use the library/technology for research.
- III. Reading, Analyzing, and Interpreting Literature
  - Read and understand fiction and nonfiction works of literature.
  - Understand and interpret elements of fiction and nonfiction.
- IV. Types of Writing
  - Write multiple paragraph informational, narrative, and persuasive pieces.
- V. Quality of Writing
  - Write with a concern for focus, content, organization, style, and conventions using process writing.
  - Revise and edit using the conventions of language.
  - Publish written work.
- VI. Speaking and Listening
  - Participate in small and large group discussions.
  - Speak using appropriate communication skills.
  - Listen and respond appropriately.
- VII. Characteristics and Functions of the English Language
  - Use a dictionary to find word meanings and origins.
- VIII. Research
  - Select, locate, and organize information.

## **MATHEMATICS**

- I. Numbers and Number Relationships
  - Understand place value and number sense.
  - Use models to represent fractions and decimals.
- II. Computation and Estimation
  - Memorize basic facts (addition, subtraction, multiplication, division)
  - Use computation procedures effectively.
- III. Measurement and Estimation
  - Understand and apply concepts of measurement.
  - Estimate to solve problems.
- IV. Mathematical Reasoning and Connections
  - Use mathematical information to solve the problems and communicate the solutions.
- VI. Mathematical Problem Solving and Communication
  - Apply and communicate problem solving strategies logically in a variety of ways.
- V. Statistics and Data Analysis
  - Collect, organize, and analyze data.
  - Predict the likely number of times a condition will occur based on analyzed data.

- VII. Probability and Predictions
  - Understand cause effect relationships.
  - Predict and determine all possible combinations.
- VIII. Algebra and Functions
  - Form rules based on patterns.
  - Explain the rule used in the number sentence.
- IX. Geometry
  - Recognize and use geometric shapes to solve problems.
  - Calculate perimeter and area.
- X. Trigonometry
  - Identify and compare angles and triangles.
- XI. Concepts of Calculus
  - Make comparisons of numbers ( e.g. more, less, same, least, most, greater than, less than).

## **SOCIAL STUDIES**

- I. Map skills
- II. Pennsylvania's nature, history, industry, and government
- III. Geography of the United States

## **SCIENCE**

- I. Hands-on approach using the scientific procedure
- II. Physical Properties and States of Matter
- III. Electricity and Magnetism
- IV. Earth's Land Resources
- V. Weather
- VI. Matter

## **HEALTH**

- I. First Aid/Safety
- II. Safety
- III. Nutrition
- IV. Drugs and Alcohol

## **ART**

The Intermediate Art curriculum is aligned with the Pennsylvania Standards for Art Education. At grades 3, 4 and 5, we reinforce learning the "Elements of Art" (line, shape, color, etc.) that are introduced at the primary level. Intermediate students are also introduced to the "Principles of Art," or the design applications for the "Elements of Art." There is a 3-year cycle of thematic units, changing from Multi-Cultural, Western Art History, and Art in Everyday Life. Student work is displayed in hallways throughout the year with a school-wide year-end art show.

## **MUSIC**

Intermediate music offers a sequential and varied approach to teaching musical elements and skills, creative ways to link music instruction to other curriculum areas, and many opportunities for independent performance. Students will acquire a solid

foundation of music knowledge and skills through singing, listening and playing on various classroom instruments.

## COMPUTER

- I. Computer Operations
  - Apply fundamental computer terminology
  - Use input and output devices effectively
  - Save documents to floppy disk or other storage devices
  - Demonstrate proper care for technology equipment
- II. Computer Software
  - Use toolbar menus to save/open files, format text, print, and insert graphics
  - Use word processing and desktop publishing software to create/edit/publish documents
  - Demonstrate proper keyboarding techniques
  - Create a presentation that includes text, graphics, animations, and sound
- III. Computer Communications System
  - Identify and use web browser terminology and website navigation
  - Demonstrate appropriate Internet use as indicated in Acceptable Use Policy (AUP)
  - Recognize error messages
  - Guided searches to find information

## PHYSICAL EDUCATION

- I. Developing greater body control
- II. Developing alertness
- III. Developing sportsmanship
- IV. Acquiring skills and knowledge to form a firm foundation for sport/health related topics
- V. Participating in various rhythmic activities
- VI. Maintaining a pleasant attitude toward play activities
- VII. Developing a sense of leadership through sports and games
- VIII. Strengthen cooperative learning strategies
- IX. Refining of gross motor and fine motor skills

## LIBRARY

Fourth grade students review the use of the OPAC card catalogue to locate library materials. Research skills are emphasized, including using the index of a reference work, and playing the Calendar Clue game. An understanding of the Newbery Award is also explored.

**SOCIAL GROWTH AND WORK HABITS** will help your child, within the limits of his/her age and maturity, to accept responsibility for learning and to work well within a group.



# 4

fourth grade

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See the building principal or teachers with questions about the curriculum.

FOURTH GRADE, 9/04