

- Measure and compare properties such as color, size, shape, texture, and hardness
- Perform experiments to demonstrate that matter exists in different states that are interchangeable
- Demonstrate common properties of gases, liquids, and solids
- Understand the difference between potential and kinetic energy
- Understand relationships among different types and forms of energy

Social Studies

BROAD GOAL: To provide students with an understanding of U.S. history, government, economics, and geography. In the Social Studies curriculum students will:

Civics and Government

- Describe the establishment of the U.S. government
- Be familiar with the U.S. Constitution
- Explain colonial government
- Understand our government today
- Identify the rights and responsibilities of a citizen

Economics

- Explore early colonial barter systems
- Understand the economic inter-relatedness of each region of the U.S.
- Discover the connection between a region's resources and its economic activities
- Learn basic economic concepts and vocabulary

Geography

- Use various types of maps and globes
- Identify the many regions of the U.S. and knowing what defines them
- Understand the impact of geography on U.S. history and economy
- Identify major landforms and water systems of the U.S.

History

- Illuminate our democratic political heritage
- Demonstrate knowledge of chronology
- Explain the significance of major events and movements in American History
- Prepare for the role of citizens in a participatory democracy

Unified Arts

BROAD GOAL: To participate daily in unified arts to enrich the curriculum. In the Unified Arts curriculum students will:

Art

- Exercise conceptualizing skills
- Learn about color, shape, value, form, line, space, perspective, and symmetry
- Be introduced to several different types of materials such as pencil drawing, painting, paper cutting, and clay

Enrichment

- Participate in geography activities as a foundation for the National Geographic Society Geography Bee.
- Practice logical thinking skills by completing visual puzzles.
- Exercise brains through creative thinking activities

Library

- Learn how to read and use atlases, different types of maps, and almanacs
- Learn about U.S. and World Geography

Music

- Learn more advanced musical notation
- Examine and differentiate the styles and trends of various musical epochs and listen to masterworks of major figures of those times
- Listen to a wide array of music from Baroque to Modern Music

Physical Education

- To demonstrate personal, responsible, and social behavior while becoming actively engaged in specific class activities
- Be able to participate in all physical activity while demonstrating fair play, ability to follow class rules, and respect for fellow classmates
- Learn about basic first aid and review safety rules
- Learn about the physical and emotional changes which occur when growing up

Technology

- Practice common computer functions
- Practice typing with word processing
- Practice typing on *MacMavis* program

Guidance

- Discuss what conflict is, causes of conflict, communication skills, problem solving, cooperation, anger management, tolerance, and respect
- Be exposed to an anti-substance abuse program

Pelham School District



Pelham Elementary School

5th Grade Curriculum

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English Language Arts

BROAD GOAL: To address acquiring the interactive skills and processes of reading, writing, speaking, listening, and viewing, which include the study of literature and the application of language arts. In the English Language Arts curriculum students will:

Reading

- Demonstrate the interest and ability to read age appropriate materials fluently with understanding and appreciation
- Generate questions before, during, and after reading to enhance understanding and recall.
- Read silently and independently, adjusting the rate of reading to suit the purpose of reading
- Use a variety of critical thinking skills to better understand text
- Develop vocabulary through meaningful interaction with text
- Develop and apply comprehension skills to a variety of reading materials

Writing

- Demonstrate the interest and ability to write effectively for a variety of purposes and audiences
- Use the writing process to produce various forms of written expression, such as the personal narrative, business letter, essay, report, and poetry
- Demonstrate the ability to use the conventions of standard English in their daily writing
- Self-evaluate writing in order to revise and edit

Speaking, Listening, and Viewing

- Demonstrate the interest and ability to speak purposefully and articulately, as well as to listen and view attentively and critically
- Contribute appropriately to verbal discussions and interactions
- Listen and respond thoughtfully and respectfully to others

Literature

- Demonstrate competence in understanding, appreciating, interpreting, and critically analyzing classical and contemporary American and British literature as well as literary works translated into English
- Understand the characteristics of a variety of genres including fiction, non-fiction, poetry, biographies, and informational articles

- Understand that literature can be used to better understand themselves and others, as well as develop an understanding of American culture and the world in which they live

English Language Uses

- Demonstrate competence in using the interactive language process of reading, writing, speaking, listening, and viewing, to gather and organize information in a variety of subject areas in order to communicate effectively
- Communicate and work effectively with others as active participants and responsive listeners
- Take responsibility for individual contributions to group and class projects by sharing ideas
- Use the English language to express themselves in a clear and effective manner in all aspects

Mathematics

BROAD GOAL: To acquire problem solving skills and computation skills, which will include addition, subtraction, multiplication, and division of whole numbers, decimals, and fractions. In the Mathematics curriculum students will:

Problem Solving and Reasoning

- Guess and check, look for a pattern, draw a picture, find a pattern, make an organized list, use objects/act it out, solve a simpler problem, make a table, use logical reasoning

Communication and Connections

- Choose an appropriate scale for a graph and then apply that concept in making their own bar and line graphs and stem-and-leaf plots

Numbers, Numeration, Operations, And Number Theory

- Compute whole numbers, decimals, and fractions

Geometry, Measurement, and Trigonometry

- Explore angles and polygons, solids and shapes, customary and metric measurement, linear measurement, weight and mass, temperature, volume, and capacity

Data Analysis, Statistics, and Probability

- Learn how to use information from graphs to figure the range, median, and mode
- Play games to explore predictions, probability and fairness, and learn to express probabilities as fractions

Functions, Relations, and Algebra

- Introduce algebra by finding a rule
- Work with prime and composite numbers, multiples, factors, and exponents
- Explore ratios and patterns of ratios

Mathematics of Change

- Describe and interpret change from graphs and/or tables of data
- Find averages and compute rates in familiar contexts

Discrete Mathematics

- Use logic and inductive reasoning to make predictions related to a series of statements

Science

BROAD GOAL: To gain a more coherent and integrated understanding of the world in which they live. In the Science curriculum students will:

Science as Inquiry

- Pose questions for scientific investigations and make predictions about the outcomes
- Make hypotheses and design simple experiments to test hypotheses
- Use appropriate measurement tools and techniques to gather, organize, and interpret data

Science, Technology, and Society

- Use technology to explore events in nature, e.g. microscopes, computers, micro viewers, magnifying glasses, etc.
- Record data using appropriate units
- Compile experimental classroom data

Life Science

- Classify a variety of organisms
- Create examples of food chains and webs in several types of ecosystems
- Demonstrate a basic knowledge of the process of photosynthesis
- Describe and give examples of the various types of interactions that occur among organisms
- Describe how organisms acquire energy, directly or indirectly from the sun

Earth and Space Science

- Explain how the Earth's relationship with the Sun causing night, day, and the seasons
- Identify events in nature that have repeating patterns, e.g. water cycle, rock cycle

Physical Science

- Classify substances according to observable properties