

## Mathematics



### Geometry

- Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).
- Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.
- Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.
- Classify two-dimensional figures in a hierarchy based on properties.

### Operations and Algebraic Thinking

- Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.
- Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For example, express the calculation "add 8 and 7, then multiply by 2" as  $2 \times (8 + 7)$ . Recognize that  $3 \times (18932 + 921)$  is three times as large as  $18932 + 921$ , without having to calculate the indicated sum or product.
- Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule "Add 3" and the starting number 0, and given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.

## Number and Operations in Base Ten

- Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

## Social Studies

- Analyze the chronology of key events in the United States.
- Understand the role of prominent figures in shaping the United States.
- Understand how human activity has and continues to shape the United States.
- Understand how increased diversity resulted from migration, settlement patterns, and economic development in the United States.

## Science

- Understand weather patterns and phenomena, making connection to the weather in a particular place and time.
- Understand the interactions of matter and energy and the changes that occur.
- Explain how the properties of some materials change as a result of heating and cooling.

## Go for the GOLD!

Give and earn respect

Own your actions

Lead by example

Demonstrate Cooperation

# Farmington Woods IB/PYP Magnet Elementary School

Farmington Woods IB/PYP Magnet Elementary School will promote inquiry and provide an international awareness while educating our children to become life long learners.

## Fifth Grade Curriculum Objectives Quarter 2



A WCPSS International Baccalaureate PYP Magnet School

This brochure is designed to share grade level standards and benchmarks with our families. Your understanding of what your child is expected to learn at each grade level is essential as we work together to reach your child's learning potential.

## Literacy



### Reading-Informational Text

- Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text. Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.
- Compare and contrast the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in two or more texts.
- Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s).
- Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.
- Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.
- Analyze multiple accounts of the same event or topic, noting important similarities and differences in the point of view they represent.

### Foundational Skills

- Know and apply grade-level phonics and word analysis in decoding words. Use combined knowledge of all letter-sound correspondences, syllabication patterns, and morphology (e.g., roots and affixes) to read accurately unfamiliar multisyllabic words in context and out of context.
- Read with sufficient accuracy and fluency to support comprehension. Use context to confirm or self-correct word recognition and understanding, rereading as necessary.

## Writing

- Write opinion pieces on topics or texts, supporting a point of view with reasons and information. Introduce a topic or text clearly, state an opinion, and create an organizational structure in which ideas are logically grouped to support the author's purpose.
- Provide logically ordered reasons that are supported by facts and details.
- Link opinion and reasons using words, phrases, and clauses (e.g., consequently, specifically).
- Provide a concluding statement or section related to the opinion presented.
- Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
- Draw evidence from literary or informational texts to support analysis, reflections, and research. Apply grade 5 Reading standards to literature (e.g., "Compare and contrast two or more characters, settings, or events in a story or a drama, drawing on specific details in the text [e.g., how characters interact]").
- Apply grade 5 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point[s]").
- Write routinely over extended time frames (time for research, reflections, and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.

Farmington Woods IB/PYP Magnet

Elementary

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## Language

- Consult reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation and determine or clarify the precise meaning of key words and phrases.
- Acquire and use accurately grade-appropriate conversational, general academic, and domain-specific words and phrases, including those that signal contrast, addition, and other logical relationships (e.g., however, although, nevertheless, similarly, moreover, in addition).
- Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
- Use underlining, quotation marks, or italics to indicate titles of works.
- Spell grade-appropriate words correctly, consulting references as needed.
- Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- Use context (e.g., cause/effect relationships and comparisons in text) as a clue to the meaning of a word or phrase.

### Speaking and Listening

- Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.
- Review the key ideas expressed and draw conclusions in light of information and knowledge gained and discussed.
- Report on a topic or text, or present an opinion, sequencing ideas logically and using appropriate facts and relevant descriptive details to support main ideas or theme, speak clearly at an understandable pace.
- Include multimedia components (e.g., graphics, sound) and visual displays in presentations when appropriate to enhance the development of main ideas or themes.