



# Pythagoras Children's Academy

## 1<sup>st</sup> Grade Curriculum Guide

### Math

1<sup>st</sup> Grade uses *Math Expressions* by Houghton Mifflin

Math Expressions Common Core combines elements of standards-based instruction with the research-based approaches. Through drawings, conceptual language and real-world examples, it helps students make sense of mathematics through exploration, modeling and discussion.

- Unit 1: Early Number Activities
- Unit 2: Operations and Simple Equations
- Unit 3: Story Problem Strategies
- Unit 4: Basic Ten-Structured Concepts
- Unit 5: Ten-Structured Applications
- Unit 6: Comparisons and Data Formats
- Unit 7: Fractions, Circle Graphs, and Clocks
- Unit 8: Money and 2-Digit Addition
- Unit 9: Analyze Story Problems
- Unit 10: Measurement, Rounding and Shapes

### Science

We follow the NGSS (Next Generation Science Standards)

Units include:

- Science Tools and Practices
- Physical Science
  - Waves: Light and Sound
- Life Science
  - Plant and Animal Survival
  - Genetics: Relationship between Parents and Offspring
- Earth Science
  - Space Systems: Patterns of Sun, Moon and Stars
- Engineering Design and STEAM

## ELA (English, Language Arts)

For Reading, ELA, Phonics, and Writing, we use *Schoolwide Fundamentals and Fountas & Pinnell*.

Schoolwide's Fundamentals Units of Study is built using the workshop model, teaching students to be critical thinkers, readers and writers by using proven, research-based best practices for reading and writing instruction.

Fountas & Pinnell encompasses nine scientific categories of learning that children will master as they become expert world solvers and effective readers: Early Literacy Concepts, High Frequency Words, Phonological and Phonemic Awareness, Spelling Patterns, Letter Knowledge, Word Structure, Letter/Sound Relationship, Word-Solving Actions, and Word Meaning.

Kindergarten follows the framework of the Daly 5 model: Read to Self, Word Work, Listen to Reading, Work on Writing and Read to Someone.

### Reading

- Identify Different Genre (Fiction, Non-fiction, Poetry)
- Fiction
  - Story elements: Character, Setting, Events
  - Key details
  - Points of view
  - Compare and contrast experiences
  - Comprehension
  - Making inferences
- Non-Fiction
  - Key details
  - Connections between information in text
  - Text features
  - Author's intent
  - Compare and contrast texts
- Poetry
  - Reading and interpreting
  - Structure
  - Feeling and sensory words

### Writing and Grammar

- Sentence structure and punctuation
- Narrative, opinion and informative writing
- Research and writing projects
- Nouns, verbs, contractions, adjectives, pronouns, conjunctions and preposition
- Affixes: prefix, suffix and root words
- Spelling: word families

### Social Studies

Themes include:

- School rules
- Roles in a community
- Geography: construct and interpret maps
- Biographies: individuals and groups that have shaped historical change
- Economics
- Compare past and present perspectives
- Chronological order
- United States history

### Religion

- |                                 |                         |                            |
|---------------------------------|-------------------------|----------------------------|
| • Elevation of the Cross        | • Saint Demetrios       | • Thanksgiving             |
| • Christmas                     | • Holy Epiphany         | • Presentation of our Lord |
| • Annunciation of the Theotokos | • Great Lent and Pascha | • Feast of the Ascension   |
| • Orthodox Christian Values     |                         |                            |

### Technology

Students use technology to support their learning. IXL, Freckle, Epic and Raz Kids are programs used for ELA and Math enrichment. Students also learn digital citizenship, ergonomics and basic keyboard and mouse skills.

