Pythagoras Children's Academy
3rd Grade Curriculum Guide

Math

3rd 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: Multiplication and Division with 0-5, 9, 10
- Unit 2: Multiplication and Division with 6, 7, 8 and multiply with multiples of 10
- Unit 3: Measurement, Time and Graphs
- Unit 4: Multi-digit Addition and Subtraction
- Unit 5: Write Equations to Solve Word Problems
- Unit 6: Polygons, Perimeter and Area
- Unit 7: Explore Fractions

Science

We follow the NGSS (Next Generation Science Standards)

Units include:

- Science Tools and Practices
- Physical Science
    - Forces and Interactions
- Life Science
    - Compare and contrast different organisms
    - Ecosystems: Animals in groups
    - Heredity: Plants and animals and how they affect the environment
    - Biological Evolution: fossils, adaptation and survival
- Earth Science
    - Earth's climates and weather conditions
    - Weather hazards and solutions to reduce impact
- 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 and structure: Character, Setting, Events
    - Key details
    - Points of view
    - Compare and contrast experiences
    - Comprehension
    - Making inferences
    - Moral, theme and mood
    - Drama, folktales, fables and myths
- Non-Fiction
    - Main idea and key details
    - Connections between information in text
    - Text features
    - Author's intent
    - Sequencing, cause and effect
    - Compare and contrast texts
- Poetry
    - Reading and interpreting
    - Structure
    - Feeling and sensory words

Writing and Grammar
- Paragraph writing and proper punctuation
- Narrative, opinion and informative writing
- Formal vs. informal writing; word choice
- Figurative language
- Nouns, verbs, contractions, adjectives, adverbs, pronouns, conjunctions and prepositions
- Affixes: prefix, suffix and root words
- Spelling and Vocabulary: dictionary and glossary use, shades of meaning, syllable patterning, decode multisyllabic words, position based spelling and ending rules

Social Studies

Themes include:

- Decision and rulemaking in classroom, school and community
- Laws and voting
- Community interactions with families, work, organizations and government
- Geography: human-environment interaction
- Biographies: individuals and groups that have shaped historical change
- History: local changes over time
- Economics: goods, services, banks, government, financial literacy and global interconnections
- United States history
- Greece history
- Primary and secondary sources of information

Religion

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

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.