



# Pythagoras Children's Academy

## Kindergarten Curriculum Guide

### Math

Kindergarten uses *Math Expressions by Houghton Mifflin*

- Recognizes, counts and writes numbers to 100
- Counts by 2s, 5s, 10s to 100
- Counts backwards from 50
- Recognizes and extends patterns
- Composes and decomposes numbers
- Compares quantities
- Identifies geometric shapes
- Understands symmetry
- Properly makes and counts tally marks
- Identifies and counts coins
- Collects, records and interprets data
- Understands addition and subtraction
- Recognizes tools of measurement
- Estimates numbers of objects
- Tells and solves story problems
- Time

### 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

- Identifies letters of the alphabet (upper and lower case)
- Reads and spells all high frequency words introduced
- Comprehends and answers questions appropriately
- Compares and contracts characters in stories
- Engages in Fiction and Non-Fiction reading activities
- Tells meaning of unknown and multiple meaning words
- Participates in class discussions
- Identifies rhyming words
- Uses and identifies nouns and verbs
- Knows all consonant and vowel sounds
- Displays directionality
- Retells stories in correct sequence
- Predicts story outcomes
- Identifies story elements
- Understands author and illustrator
- Contributes to class research
- Segments and blends phenomes in words
- Reads beginning books fluently

#### Writing

- Prints first and last name correctly
- Writes two or more complete sentences
- Capitalizes the first word in a sentence and proper nouns
- Spells high frequency words
- Uses end punctuation
- Adds details to writing

### Science

Themes include:

- What is Science, Science Tools and Safety
- Motion and Stability
- Pushes and Pulls
- Weather Patterns
- Dental Health and Oral Hygiene
- Earth and Human Activity / Earth Day
- Healthy Choices and Lifestyles
- Five Senses
- Forces and Interactions
- Energy from the Sun
- Wind and Seasons
- How Plants and Animals Survive
- Ecosystems
- Properties of Water
- STEAM (Science, Technology, Engineering, Art and Math) are incorporated into Science Lessons

### Social Studies

Themes include:

- Family
- Address and Phone Number
- Needs vs. Wants
- Climate and Change
- Our Community
- Citizenship
- Rules and Laws
- Veterans
- Roles of People in Authority
- Transportation
- Our World
- Pillars of Character
- Fire Safety
- Life in Past vs. Life Today
- Presidents
- Human Population
- Culture
- Responsible Choices

### Religion

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

### Technology

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