



Pythagoras Children's Academy

2nd Grade Curriculum Guide

Math

2nd 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: Strategies for Addition and Subtraction
- Unit 2: Addition within 200
- Unit 3: Length and Shapes
- Unit 4: Subtract 2-Digit Numbers
- Unit 5: Time, Graphs and Word Problems
- Unit 6: 3-Digit Addition and Subtraction
- Unit 7: Arrays, Equal Shares and Adding and Subtracting Lengths

Science

We follow the NGSS (Next Generation Science Standards)

Units include:

- Science Tools and Practices
- Physical Science
 - States of matter
 - Structures and properties of matter
- Life Science
 - Interdependent relationships in ecosystems
 - Diversity of life in different habitats
- Earth Science
 - Earth systems: slow and rapid events
 - Natural disasters and safety
 - Water and wind change shape of land
 - Land and bodies on water on Earth
- 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
- 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 and paragraph writing and proper punctuation
- Narrative, opinion and informative writing
- Formal vs. informal writing
- Nouns, verbs, contractions, adjectives, adverbs, pronouns, conjunctions and preposition
- Affixes: prefix, suffix and root words
- Spelling and Vocabulary: decode words, long/short vowels, compound words, sight words, word families

Social Studies

Themes include:

- Geography: construct and interpret maps
- Cultural and environmental characteristics of a community
- Government: functions, rules and laws
- Biographies: individuals and groups that have shaped historical change
- History: local changes over time
- Economics: economic decision making, consumer health, and financial literacy
- Illinois
- Primary and secondary sources of information

Religion

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| • 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.

