



Pythagoras Children's Academy

1st Grade Curriculum Guide

Math

The Math Curriculum is based from Everyday Mathematics Series. It is part of an elementary school mathematics curriculum developed by the University of Chicago Mathematics Project.

Everyday Mathematics reflects the state and national goals for mathematics and includes:

- a curriculum that explores mathematical content beyond basic arithmetic
- a problem- solving approach based on everyday situations
- frequent, varied practice of basic skills
- an instructional approach that revisits concepts regularly
- an emphasis on communication and teamwork
- a commitment to home/ school partnerships

The First Grade Program emphasizes the following content:

- Numbers and numeration
- Operations and computation: adding and subtracting within 20
- Data and chance
- Measurement and reference frames
- Geometry: reasoning with shapes and their attributes
- Telling and writing time using digital and analog clocks
- Using a calculator
- Reading and creating timelines
- Place value
- Numerical relations
- Explorations: Exploring data, shapes, and base-10 blocks
- Fact families
- Mental math, money, and fractions
- Thermometers and temperature

ELA (English, Language Arts)

For Reading, ELA, and Writing we use Schoolwide Fundamentals. Schoolwide's Fundamentals Units of Study are designed to meet the instructional needs of literacy educators, with a particular focus on usability and effectiveness. Built using the workshop model, Schoolwide's units teach students to be critical thinkers, readers, and writers by using proven, research-based best practices for reading and writing instruction.

The units of study include:

Reading Fundamentals:

- Launching Unit: prepares students for the year's lessons
- Fiction
- Nonfiction
- Poetry
- Content Literacy

Writing Fundamentals:

- Narrative
- Opinion
- Informative/Explanatory

First Grade uses the "Daily 5" Curriculum and method of instruction. Students read, write, and work with words on a daily basis. Guided reading books are online on Zing Reading, which is a part of the Schoolwide Fundamentals curriculum. Guided reading books help differentiate instruction for each child's individual reading needs.

Phonics:

While phonics and language arts are integrated into the Daily 5, we supplement this with additional daily phonics practice and language arts practice from the Schoolwide Fundamentals curriculum.

Topics include:

- Sentences: statements, exclamations, questions
- Nouns: singular, plural, and irregular
- Capitalization
- Verbs: present tense, past tense, and subject-verb agreement
- Contractions
- Adjectives
- Pronouns

Science

Textbook: Harcourt Publishers, Interactive Notebooks, and Scholastic News

Mini Units include:

- 5 senses
- physical properties of matter
- magnetism
- animals in winter
- landform rocks
- planets and the moon
- plants: seeds
- weather
- life cycles
- food chain

Social Studies

Textbook: “A Child’s View” by Harcourt Social Studies, Interactive Notebooks, and Scholastic News.

Topics include:

- school rules
- famous explorers
- biographies
- folktales
- landforms
- continents
- oceans
- positive character traits
- maps and globes
- jobs and currency
- producers and consumers
- occupations

Technology

- Class Chrome books for supplemental math and ELA
- Guided Reading
- Spelling City
- XtraMath
- IXL
- Interactive Whiteboard