TASIS PORTUGAL

ELEMENTARY SCHOOL CURRICULAR PROGRESSION · GRADES 1–5

Mathematics · Grades 3–5

Singapore Math | Math in Focus 2020

Grades 3–4 focus: problem solving, skills consolidation and a deep understanding in preparation for algebra: fractions, decimals, ratios, model drawing, expressions, equations and inequalities.

Grade 3

- Represent numbers to 10,000 in equivalent forms
- Count by 100s and 1,000s
- Compare and order numbers to 10,000
- Compare fractions using models and number lines
- Add and subtract money
- Add and subtract whole numbers to 10,000
- Multiply and divide with 6, 7, 8, 9, 10, 11 and 12
- Multiply ones, tens and hundreds with and without regrouping
- Use bar models to represent multiplication and division
- Solve one- and two-step multiplication and division problems
- Use rounding to estimate
- Create and describe addition, multiplication and division patterns
- Understand that multiplication and division are related
- Represent two-step word problems with unknown quantities
- Write and solve multiplication and division number sentences
- Identify perpendicular and parallel lines
- Identify right angles
- Describe, analyze, compare and classify 2D shapes by their sides and angles
- Solve one-step real-world problems with measurement
- Tell time to the nearest minute
- Determine elapsed time
- Add and subtract units of time
- Measure perimeter
- Find and compare area
- Collect and organize data in bar graphs and line plots
- Interpret bar, picture and line graphs
- Apply and explain the problem-solving process

Grade 4

- Represent numbers to 1,000,000 in various contexts
- Count by hundred thousands, ten thousands and thousands
- Compare and order numbers to 1,000,000
- Generate equivalent fractions
- Identify equivalent fractions and decimals
- Fluently add and subtract multi-digit whole numbers using the standard algorithm
- Fluently recall multiplication and division facts
- Multiply a 4-digit number by a one-digit number, and a two-digit number by another two-digit number
- Add and subtract like fractions
- Use a rule to describe a sequence of numbers or objects
- Represent multiplication and division as inverse operations
- Find the greatest common factor and the least common multiple
- Determine if a number is prime or composite
- Write and solve a number sentence for multi-step word problems
- Draw perpendicular and parallel lines
- Draw and measure angles
- Understand the relationship between angles and circular measurement (360 degrees)
- Find unknown angle measures and side lengths of squares and rectangles
- Recognize symmetry
- Find the perimeter of composite figures
- Construct line plots, tables and line graphs
- Interpret tally charts, bar graphs, picture graphs, tables, line graphs and line plots
- Apply and explain the problem-solving process

Grade 5

- Whole Numbers and the Four Operations
- Fractions and Mixed Numbers
- Multiplying and Dividing Fractions and Mixed Numbers
- Decimals
- Four Operations of Decimals
- Volume
- Line Plots and the Coordinate Plane
- Polygons
- Ratio
- Percent