



SMARTTraining

Singapore Math Advisors, Resources and Teacher Training

www.SingaporeMathTraining.com

info@SingaporeMathTraining.com

SCOPE AND SEQUENCE - KINDERGARTEN

Same, different - matching
Big, small (bigger than, smaller than)
Long, short (longer, shorter)
Sorting by color, size, etc.
Sets (equal, more, less)
Heavy, light
Geometric terms
 Cube
 Cylinder
 Sphere
 Cuboid (rectangular prism)
Writing numerals
Patterns
Zero
Graphs
Pair = 2
Even – odd

Sequencing (first, next)
Night, day
Ordinal numbers
Greater than, less than (symbols not introduced yet)
Beginning measurement
Counting up and down to and from 10
Writing numerals in words
Place value (tens and ones)
Numerals to 20 (symbols and words)
Fractions ($\frac{1}{2}$, $\frac{1}{4}$)
One-to-one correspondence
Beginning addition and subtraction
Telling time to the hour
Counting by 10's
Days of the week
Counting by 5's

SCOPE AND SEQUENCE - FIRST GRADE

Counting 1 – 10
More, less
Sets
Number bonds (part, whole)
Addition, subtraction
 Make 10 first
Shapes
Patterns
Comparing numbers (1 more than, etc.)
Comparison by subtraction
Numerals to 40

Decomposing numbers (23 is 20 and 3, etc.)
Adding three numbers
Place value (Hundreds, tens, ones)
Multiplication
 (1's, 2's, 3's, 4's, 5's, 10's within 40)
Division (Sharing and grouping)
Halves and quarters
Time to $\frac{1}{2}$ hour
Addition and subtraction within 100
Money

SCOPE AND SEQUENCE - SECOND GRADE

Place value to 1000
Comparing numbers
 (greater than, less than)
Addition and subtraction
 Number bonds
 Vertical addition and subtraction
Addition with renaming
Measurement (ruler and tape measure)

Weight, mass
Multiplication, division (2's, 3's, 4's, 5's, 10's)
Fractions that make a whole
Time to 5 minutes
 Begin elapsed time with clocks
Patterns
Area



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SCOPE AND SEQUENCE - THIRD GRADE

Place value to 10,000's

Model drawing

When comparing things, draw separate bars

Division with remainders

Adding, subtracting money

Ordering numbers

Multiplication part-whole

1. There are 4 jars, each containing 10 marbles. How many marbles are there in all?
2. There are 40 marbles equally divided among 4 jars. How many marbles are in each jar?
3. There are 40 marbles in total. 10 are put into each jar. How many jars are there?

Division with remainders

Multiplication algorithm

Mental math strategies

Estimation

Conversion of measurements

Metric (1 meter = 100 cm, etc.)

U.S. (quarts, cups, gallons, pints)

Fractions

Order unit fractions

Compare fractions with the same numerators

Equivalent fractions (related fractions, listing, using multiplication)

Simplifying fractions

Telling time to 1 minute

Elapsed time

Converting hours to minutes

Months and years (seasons, names of months, days, weeks)

Angles

Area

Perimeter

SCOPE AND SEQUENCE - FOURTH GRADE

Place value to 100,000

Factors

Multiples

Common factors and multiples

Mental math with larger numbers

Patterns

Rounding

Rules of divisibility

Estimation

2 digit x 2 digit multiplication

2 digit x 3 digit multiplication

Fractions

Comparing

Equivalent fractions

Ordering

Simplifying

Mixed numbers

Improper fractions

Fraction of a set

Multiplying fractions

Angles – protractor use

Perpendicular – parallel (use of set squares)

Area and perimeter of composite figures

Decimals

Place value

Adding, subtracting, multiplying, dividing

Decimals to fractions and vice versa

Volume



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SCOPE AND SEQUENCE - FIFTH GRADE

Place value to 1,000,000's

Order of operations

Multi-digit multiplication

Division by 2-digit divisor

Fractions

 Addition / subtraction of unlike fractions

 Addition / subtraction of mixed numbers

 Fraction multiplication and division

Area of triangles

Ratios

Angles

 Measuring

 Finding unknown angles

Decimals

 Approximation and Estimation

 Multiplication

Percentage

 Writing fractions as percentages

 Percentage of a quantity

Average

Rate

Graphs

Geometry

 Triangles (sum of angles;

 isosceles/equilateral)

 Parallelograms, rhombuses, trapezoids

 Finding unknown angles

Tesselations

Volume