

CAMS & STAMS

BUILD FUNDAMENTAL MATHS SKILLS

with this powerful integrated program of diagnosis, instruction and practice

CAMS: Diagnostic

Quickly identify which of the 16 fundamental maths concepts and skills your students find most difficult and use the results to monitor progress.

- A pretest diagnoses students' strengths and weaknesses and guides their placement in the **STAMS Series**.
- Four benchmarks assess class progress throughout the year.
- A post test assesses students' mastery of concepts and skills following instruction with the **STAMS Series**.
- Tracking charts facilitate data collection and student self-assessment encourages reflection.

STAMS: Instruction

Provide struggling students with explicit instruction of the 16 fundamental maths concepts and skills – those topics identified as the most important instructional goals for each year level.

- Five-part **STAMS** lessons are highly visual, engaging and clearly presented.
- Step-by-step support helps teachers easily differentiate instruction and minimise planning time.
- Modelling helps teachers introduce each skill simply and confidently.
- Useful tips and embedded professional development guide instruction.

16 FUNDAMENTAL SKILLS AND CONCEPTS: LEVELS A-H

LEVEL A (YEARS 1-2)

Understand addition and subtraction
Fact families
Make tens to add and subtract
Solve word problems
Add three numbers
Count to 100
Place value
Compare numbers
Add and subtract ten
Add 2-digit numbers
Subtract tens
Shapes
Equal parts
Length
Time
Data

LEVEL B (YEARS 2-3)

Counting patterns
Place value
Compare numbers
Mental maths
Addition strategies
Subtraction strategies
Solve word problems
Add and subtract to 1000
Arrays
Equal parts of shapes
Length
Add and subtract length
Time
Money
Data and dot plots
Graphs

LEVEL C (YEARS 3-4)

Place value
Add and subtract
Multiplication concepts
Fact strategies
More fact strategies
Division concepts
Fact families
Fraction concepts
Model equivalent fractions
Benchmark fractions
Compare fractions
Fractions greater than 1
Plane figures
Length
Perimeter
Picture graphs and column graphs

LEVEL D (YEARS 4-5)

Multiplication properties
Multiply mentally
Multiply by 1-digit numbers
Multiply by 2-digit numbers
Relate division to multiplication
Divide without regrouping
Divide with regrouping
Equivalent fractions
Simplify fractions
Decimal place value
Compare and order decimals
Relate decimals to fractions
Angles
Understand area
Area of rectangles
Dot plots

LEVEL E (YEARS 5-6)

Multiply 3-digit numbers
Divide mentally
Estimate quotients
1-digit divisors
Zeros in the quotient
2-digit divisors
Understand mixed numbers
Add and subtract like fractions
Compare related and unlike fractions
Add and subtract related fractions
Add and subtract mixed numbers
Add and subtract decimals
Area
Surface area
Understand volume
Line graphs

LEVEL F (YEARS 6-7)

Multiply whole numbers by fractions
Multiply fractions
Divide whole numbers by fractions
Divide fractions by fractions
Multiply and divide by powers of ten
Multiply decimals
Divide decimals by whole numbers
Divide by decimals
Understand ratios
Understand percentage
Unit rates
Ratios in tables of data
Solve equations using number sense
Solve equations using inverse operations
Use formulas
Volume

LEVEL G (YEARS 7-8)

Understand integers
Add and subtract integers
Multiply and divide integers
Evaluate expressions
Solve linear equations
Equations with rational numbers
Proportional relationships
Solve proportions
Rate problems
Percentage as a ratio
Percentage problems
Similarity
Circles
Cylinders
Pie charts
Theoretical probability

LEVEL H (YEARS 8-9)

Exponents
Square roots
Solve two-step equations
Two-step equations with rational numbers
Linear and nonlinear equations
Gradient
Graph linear equations
Solve sets of simultaneous equations graphically
Solve sets of simultaneous equations algebraically
Special pairs of angles
Angle sums
Triangle similarity
Pythagorean theorem
Distance formula
Mean, median, range
Scatter plots