MATHS — Mental Objectives - Year 4

Southdale
C of E Junior school
Shining like stars in the universe

Y3 OBJECTIVES SECURE BY END OF AUTUMN 1

Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number

Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)

Add and subtract numbers mentally. Add 19, 99, 199 etc

- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds

Compliments to 100 (number line)

Divide 100 into 2,4,5 and 10 equal parts

Double and half numbers up to 3 digits (whole number answers)

Given a number find 10 more, ten less, 100 more, 100 less

Add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Know the 2, 3, 4, 5, 8 and 10 times tables

Add and subtract amounts of money to give change, using both £ and p

Count up and down in tenths

Add and subtract fractions with the same denominator within one whole

Find fractions of a discrete set of objects: unit fractions and non unit fractions with small denominators

Read time with increasing accuracy to the nearest minute

Know the number of seconds in a minute and the number of days in each month, year and leap year

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. Properties of 2d and 3d shapes

Read time with increasing accuracy to the nearest minute

Know the number of seconds in a minute and the number of days in each month, year and leap year

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SECURE BY END OF AUTUMN 2

count in multiples of 6, 7, 9, 25 and 1000

find 1000 more or less than a given number

Divide 1000 into 2, 4, 5 and 10 equal parts

count backwards through zero to include negative numbers

round any number to the nearest 10, 100 or 1000

Multiply and divide by 10 and 100

use place value, known and derived facts to multiply and divide mentally

Compliments to 1000

Add and subtract numbers mentally (add 99, 29, sets of three numbers)

SECURE BY END OF SPRING

Recall multiplication and division facts for multiplication tables up to 12 × 12

Multiply and divide by 10 and 100

Scaling number facts 10 and 100

Multiplying together three numbers

Recognise and show, using diagrams, families of common equivalent fractions

Double and half numbers up to 4 digits (whole number answers)

Count forwards and backwards in fractions (quarters, half, thrirds, fifths tenths etc)

SECURE BY END OF SUMMER

Count up and down in hundredths

Add and subtract fractions with the same denominator

Find unit and non unit fractions of quantities

Recognise and write decimal equivalents of any number of tenths or hundredths

Recognise and write decimal equivalents to half, quarter, three quarters

Round decimals with one decimal place to the nearest whole number

Solve simple measure and money problems involving fractions and (number line) including halving and doubling

Convert time between analogue and digital 12- and 24-hour clocks

Converting from hours to minutes; minutes to seconds; years to months; weeks to days.