Year 3 Maths Objectives

Place Value

COUNTING	count from 0 in multiples of 4, 8, 50 and 100;
	find 10 or 100 more or less than a given number
COMPARING	compare and order numbers up to 1000
NUMBERS	
ESTIMATING	identify, represent and estimate numbers using different representations
NUMBERS	
READING &	read and write numbers up to 1000 in numerals and in words
WRITING	tell and write the time from an analogue clock, including using Roman numerals
NUMBERS	from I to XII, and 12-hour and 24-hour clocks
UNDERSTANDING	recognise the place value of each digit in a three-digit number (hundreds, tens,
PLACE VALUE	ones)
PROBLEM	solve number problems and practical problems involving these ideas.
SOLVING	

Addition & Subtraction

MENTAL	add and subtract numbers mentally, including:
CALCULATION	* a three-digit number and ones
	* a three-digit number and tens
	* a three-digit number and hundreds
WRITTEN	add and subtract numbers with up to three digits, using formal written methods
METHODS	of columnar addition and subtraction
CHECKING	estimate the answer to a calculation and use inverse operations to check
ANSWERS	answers
PROBLEM	solve problems, including missing number problems, using number facts, place
SOLVING	value, and more complex addition and subtraction

Multiplication & Division

MULTIPLICATION	count from 0 in multiples of 4, 8, 50 and 100
& DIVISION	recall and use multiplication and division facts for the 3, 4 and 8 multiplication
FACTS	tables
MENTAL	write and calculate mathematical statements for multiplication and division
CALCULATION	using the multiplication tables that they know, including for two-digit numbers
	times one-digit numbers, using mental and progressing to formal written
	methods (appears also in Written Methods)
WRITTEN	write and calculate mathematical statements for multiplication and division
CALCULATION	using the multiplication tables that they know, including for two-digit numbers
	times one-digit numbers, using mental and progressing to formal written
	methods (appears also in Mental Methods)
PROBLEM	solve problems, including missing number problems, involving multiplication
SOLVING	and division, including positive integer scaling problems and correspondence
	problems in which n objects are connected to m objects
CHECKING	estimate the answer to a calculation and use inverse operations to check

ANSWERS *answers* (copied from Addition and Subtraction)

<u>Algebra</u>

EQUATIONS	solve problems, including missing number problems, using number facts, place
	value, and more complex addition and subtraction.
	solve problems, including missing number problems, involving multiplication and
	division, including integer scaling

Fractions (including decimals & percentages)

COUNTING IN	count up and down in tenths
FRACTIONAL STEPS	
RECOGNISING	recognise, find and write fractions of a discrete set of objects: unit fractions
FRACTIONS	and non-unit fractions with small denominators
	recognise that tenths arise from dividing an object into 10 equal parts and in
	dividing one – digit numbers or quantities by 10.
	recognise and use fractions as numbers: unit fractions and non-unit fractions
	with small denominators
COMPARING	compare and order unit fractions, and fractions with the same denominators
FRACTIONS	
EQUIVALENCE	recognise and show, using diagrams, equivalent fractions with small
	denominators
ADDITION &	add and subtract fractions with the same denominator within one whole (e.g.
SUBTRACTION OF	$\binom{5}{7} + \frac{1}{7} = \binom{6}{7}$
FRACTIONS	
PROBLEM SOLVING	solve problems that involve all of the above

Geometry: Properties of shape

DRAWING &	draw 2-D shapes and make 3-D shapes using modelling materials; recognise
CONSTRUCTING	3-D shapes in different orientations and describe them
COMPARING &	compare and sort common 2-D and 3-D shapes and everyday objects.
CLASSIFYING	
ANGLES	recognise angles as a property of shape or a description of a turn 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 identify horizontal and vertical lines and pairs of perpendicular and parallel lines

Measurement

COMPARING & ESTIMATING	compare durations of events, for example to calculate the time taken by particular events or tasks
	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight

	(appears also in Telling the Time)
MEASURING &	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);
CALCULATING	volume/capacity (I/mI) measure the perimeter of simple 2-D shapes
	add and subtract amounts of money to give change, using both £ and p in
	practical contexts
TELLING THE TIME	tell and write the time from an analogue clock, including using Roman
	numerals from I to XII, and 12-hour and 24-hour clocks
	estimate and read time with increasing accuracy to the nearest minute;
	record and compare time in terms of seconds, minutes, hours and o'clock;
	use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight
CONVERTING	know the number of seconds in a minute and the number of days in each
	month, year and leap year

Statistics

IN	TERPRETING DATS	interpret and present data using bar charts, pictograms and tables
SO	LVING PROBLEMS	solve one-step and two-step questions [e.g. 'How many more?' and 'How
		many fewer?'] using information presented in scaled bar charts and
		pictograms and tables.