Jarrow Cross CE Primary School Numeracy Assessment – Year 3
(Notes & guidance; non-statutory)

NUMBER & PLACE VALUE	E	D	S
count from 0 in multiples of 4, 8, 50 & 100			
find 10 more & less than a given number			
find 100 more & less than a given number			
compare and order numbers up to 1 000			
read & write numbers up to 1 000 in numerals & words			
recognise the place value of each digit in a three-digit number (hundreds, tens, ones)			
solve number problems and practical problems			
partition in varies ways (146 = 100 + 40 + 6 and 146 = 130 +16)			
using a variety of representations, count in 1s, 10s & 100s to 1000			
ADDITION & SUBTRACTION			
add numbers mentally: three-digit number and ones, tens and hundreds			
subtract numbers mentally: three-digit number and ones, tens and hundreds			
estimate the answer to a calculation and use inverse operations to check answers			
add numbers with up to three digits, using formal written methods of columnar addition (crossing boundaries)			
subtract numbers with up to three digits, using formal written methods of columnar subtraction (crossing boundaries)			
solve addition and subtraction problems including missing number problems			
know sums & differences of multiples of ten linked to place value (7 + 2 = 9 so 70 + 20 = 90)			
know pairs of 2-digit numbers that total 100			
add near doubles			
MULTIPLICATION & DIVISION			
recall and use multiplication and division facts for the 3,4 & 8 multiplication tables			
write and calculate mathematical statements for multiplication and division including two-digit numbers times one-digit numbers using mental strategies & formal short written methods			
know doubles of all multiples of 10 to 100 and corresponding halves			
double any multiple of 5 to 100			
halve any multiple of 10 to 200			
multiply whole numbers by 10			
estimate the answer to multiplication and division calculations and use inverse operations to check answers with Y3 criteria			
solve problems involving multiplication and division including scaling			
make connections to the 2, 4, & 8 times table			
use commutativity & associativity to derive related facts (4x12x5 = 4x5x12 = 20x12=240) (30x2=60 so 60÷3=20 and 20=60÷3)			
FRACTIONS			
count up and down in tenths			
know tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10			
recognise, find and write fractions of a discrete set of objects			
recognise and use fractions as numbers			
compare and order unit fractions and fractions with the same denominator			
recognise and show, using diagrams, equivalent fractions with small denominators			
add & subtract fractions with the same denominator within one whole			
solve problems involving all of the above			
understand unit & non-unit fractions as numbers on the number line going beyond the 0,1 interval			

MEASURES			
measure, compare, add & subtract: **lengths** (m/cm/mm) **mass** (kg/g) **volume/capacity** (l/ml)			
measure the **perimeter** of simple 2-D shapes			
add & subtract amounts of money to give change using both £ and p			
tell and write the time from an analogue clock, including Roman numerals			
tell and write the time from *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			
know the number of seconds in a minute			
know the number of days in each month			
know the number of days in a year and leap year			
compare durations of events including calculating the time taken			
compare and use mixed units (1kg 200g) & simple equivalent of mixed units (5m = 500cm)			
compare using scaling (twice as long, 5 times as high)			
GEOMETRY: PROPERTIES OF SHAPE			
recognise 3-D shapes in different orientations & describe them			
draw 2-D shapes & make 3-D shapes using modeling materials			
recognise angles as a property of shape or a description of a turn			
identify right angles & know 2 right angles make a half-turn, 3 make three quarters of a turn and 4 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			
connect decimals & rounding to drawing & measuring straight lines in centimetres			
describe 2-D & 3-D shapes accurately including length of lines & acute & obtuse angles			
STATISTICS			
interpret & present data using bar charts, pictograms & tables			
solve one & two-step questions using data presented in scaled bar charts, pictograms & tables (How many more? How many fewer?)			