## **LOCKERS PARK SCHOOL**

## YEAR 5





This document provides information for parents on the key objectives taught in each Year group for Maths. All objectives will be worked on throughout the year and will be the focus of direct teaching. If you wish to provide further support at home, then these objectives should be your focus. If you have any queries regarding the content of this document or want support in knowing how best to help your child, then do please contact your child's teacher.

_	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
MuN	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
ber	round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000
and	round decimals with two decimal places to the nearest whole number and to one decimal place
Number and Place Value	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
ue	solve number problems and practical problems that involve all of the above
	add and subtract numbers mentally with increasingly large numbers
Addition and Subtraction	add and subtract whole numbers with more than 4 digits, including using formal written methods
ion a	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
	solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why
	multiply and divide numbers mentally drawing upon known facts
	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
<	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
lultiplica	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
ation and	identify multiples and factors, including all factor pairs of a number, and common factors of 2 numbers.
Multiplication and Division	know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers: establish whether a number up to 100 is prime and recall prime numbers up to 19
	recognise and use square numbers and cube numbers, and their notation
	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
	solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
	solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

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identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and

hundredths

compare and order fractions whose denominators are all multiples of the same number

add and subtract fractions with the same denominator and multiples of the same number

multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements

recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

read, write, order and compare numbers with up to three decimal places

read and write decimal numbers as fractions (e.g. 0.71 = /71/100)

recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred",

and write percentages as a fraction with denominator 100 as a decimal fraction

solve problems involving numbers up to three decimal places

solve problems which require knowing percentage and decimal equivalence

Measurement and Time

measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

calculate and compare the area of squares and rectangles including using standard units and estimate thearea of irregular shapes

estimate volume (e.g using 1 cm blocks to build cubes and cuboids) and capacity (e.g. using water) use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal

notation including scaling.

convert between different units of metric measure

solve problems involving converting between units of time

Geometry Shape and Position

know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees

Identify angles at a point and on a straight line

use the properties of rectangles to deduce related facts and find missing lengths and angles

distinguish between regular and irregular polygons based on reasoning about equal sides and angles

identify 3-D shapes, including cubes and other cuboids, from 2-D representations

identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

complete, read and interpret information in tables, including timetables

solve comparison, sum and difference problems using information presented in a line graph