Oaklands Junior School Curriculum Intent

Maths

Place value and the Number System

Relate, Locate, Write, State, Name, Explain, Discuss, Compare, Describe

Yr2

Numbers to 100: Write, order and compare using <, > and =

2,5,10 x tables

recognise the place value of each digit in a two-digit number (tens, ones)
recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
recognise, find, name and write simple unit fractions

Yr4

Up to 12 x 12 and related ÷ facts

multiply and divide numbers (inc. decimals) by 10/100/1000 and the effect on place value

Count forwards and backwards recognise and write decimal equivalents of any number of tenths or hundredths

Read Roman numerals to 100 (I to C)

Yr6

perform mental calculations, including with mixed operations and large numbers

read, write, order, compare, round numbers up to 7 digits

use estimation to check answers to calculations

identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places

Calculation

Explain, Solve, Use, Complete, Verify

Yr2

TU +/- TU

calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs

Explain commutative rule for + and x calculations

find different combinations of coins that equal the same amounts of money

Yr4

ThHTU

+/-

ThHTU

HTU

x/÷ U

+/- fractions with same denominator

estimate and use inverse operations to check answers to a calculation

Yr 6

ThHTU x/÷ TU

use simple formulae

Calculate and compare percentages

add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Multiply and divide fractions

Geometry, Measurement & Statistics

List, Find, Locate, Analyse, Examine, Investigate,

Yr2

Choose, use and write appropriate standard units to estimate and measure

solve simple practical problems involving addition and subtraction of money

tell and write the time to five minutes

Describe position, direction

Yr4

Use bar charts, picto-grams and tables

solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Analyse geometric shapes using properties

read, write and convert time between analogue and digital 12 and 24-hour clocks

Yr6

Construct & interpret pie charts

Draw 2-D shapes using given criteria

Calculate Mean

Calculate unknown angles

Convert between standard units of measure

Calculate area, perimeter and volume using formulae

Use mathematical language to describe shape and position

Using and Applying

Solve, Construct, Complete, Create, Predict, Plan, Formulate, Select, Justify

Yr2

solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

Discuss maths using mathematical language with support

Yr4

Solve 2-step +/- problems

solve problems, such as missing number problems, using number facts, place value, and more complex addition, subtraction multiplication and division including using the distributive law to multiply

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

Discuss maths and explain thinking

Yr6

Solve multi-step problems

use their knowledge of the order of operations to carry out calculations involving the four operations

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Draw simple conclusions of their own and explain their reasoning