MATHS TARGETS

Year 6

Name: _____

Number, Place Value & Algebra

- NPV9 I can solve number problems and practical problems.
- NPV8 I can find equivalent expressions. (E.g. 4 x 4 = 10 + 6).
- NPV7 I can express missing number problems algebraically. (E.g. 2n +5).
- NPV6 I can generate and describe linear number sequences.
- NPV5 I can use simple formulae when solving problems.
- NPV4 I can use negative numbers in real world contexts, including calculating across '0'.
- NPV3 I can round any whole number to a given degree of accuracy.
- NPV2 I can determine the value of each digit in a number up to 10,000,000.
- NPV1 I can read, write, order and compare numbers to at least 10,000,000.

Addition, Subtraction, Multiplication and Division

- ASMD9 I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.
- ASMD8 I can solve addition and subtraction multi-step problems in different contexts.
- ASMD7 I can use knowledge of the order of operations to carry out calculations involving the four
- ASMD6 I can identify common factors, common multiples and prime numbers.
- ASMD5 I can calculate mentally, including with mixed operations and large numbers.
- ASMD4 I can interpret remainders as whole number remainders, fractions or by rounding.
- ASMD3 I can divide up to 4 digits by a 1 digit whole number using the formal written method of short division.
- ASMD2 I can divide up to 4 digits by a 2-digit whole number using the formal written method of long division.
- ASMD1 I can multiply up to 4 digits by a 2-digit whole number using the formal written method of long multiplication.

Fractions, Decimals and Percentages

- FDP11 I can solve problems which require answers to be rounded to specified degrees of accuracy.
- FDP10 I can x1-digit numbers with up to 2 decimal places by whole numbers.
- FDP9 I can x and ÷.numbers by 10, 100 and 1000 where the answers are up to 3 decimal places.
- FDP8 I can use written division methods in cases where the answer has up to 2 decimal places.
- FDP7 I can identify the value of each digit in numbers given to three decimal places.
- FDP6 I can divide proper fractions by whole numbers.
- FDP5 I can multiply simple pairs of proper fractions, writing the answer in the simplest form.
- FDP4 I can add and subtract fractions with different denominators and mixed numbers, using the idea of equivalent fractions.
- FDP3 I can recall, use and calculate equivalences between simple fractions, decimals and percentages.
- FDP2 I can compare and order fractions, including fractions >1..
- FP1 I can simplify fractions and use common multiples to express fractions in the same denomination.

Ratio and Proportion

- RP5 I can solve problems involving similar shapes where the scale factor is known or can be found.
- RP4 I can solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360.
- RP3 I can use percentages for comparison.
- RP2 I can solve ratio and proportion problems involving the relative sizes of two quantities, where missing values can be found using multiplication and division facts.
- RP1 I can solve ratio and proportion problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Measurement

- M7 I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cm^3 and m^3, and extending to mm^3 and km^3.
- M6 I recognise when it is necessary to use the formulae for area and volume of shapes.
- M5 I can calculate the area of parallelograms and triangles.
- M4 I can recognise that shapes with the same areas can have different perimeters and vice versa.
- M3 I can convert between miles and kilometres.
- M2 I use, read, write and convert between standard units of measure of length, mass, volume and time.
- M1 I can solve problems involving the calculation and conversion of units of measure, using decimal notation to 3 decimal places where appropriate.

Geometry

- G9 I know that the diameter of a circle is twice the radius.
- G8 I can draw 2-D shapes using given dimensions and angles.
- G7 I can draw and translate simple shapes and reflect them in the axes.
- G6 I can describe positions on the full co-ordinate grid (all four quadrants).
- G5 I can find unknown angles where they meet at a point, are on a straight line and are vertically opposite.
- G4 I can illustrate and name parts of circles, including radius, diameter and circumference.
- G3 I can find unknown angles in any triangles, quadrilaterals and regular polygons.
- G2 I can compare and classify geometric shapes based on their properties and sizes.
- G1 I can recognise, describe and build simple 3-D shapes, including making nets.

Statistics

- MS16 I can use knowledge of place value and related calculations.
- MS15 I can count on and back in minutes and hours, across 60, and in all time formats.
- MS14 I can find + and – facts for multiples of 10 to 1000 and decimal numbers.
- MS13 I know what must be added to a decimal (2d.p.) to make the next whole number.
- S6 I can interpret pie charts and line graphs to solve problems
- S5 I can calculate and interpret the mean as an average.
- S4 I can construct line graphs.
- S3 I can interpret line graphs.
- S2 I can construct pie charts.
- S1 I can interpret pie charts.

Mental Strategies

- MS12 I can count on or back in 100s, 10s,1s, 1/10 and 1/100.
- MS11 I can use partitioning to divide tens and ones separately.
- MS10 I can use knowledge of equivalence between percentages and decimals and fractions.
- MS9 I can multiply pairs of 2 digit numbers.
- MS8 I can + and – pairs of decimals.
- MS7 I can scale up and down using known facts.
- MS6 I can simplify fractions by cancelling.
- MS5 I can find multiples of 10% of a number.
- MS4 I can x and ÷ 2digit decimals.
- MS3 I can double decimals with units and tenths.
- MS2 I can divide a 2 digit number by a 1 digit number.
- MS1 I know square numbers to 12x12.

Programme of study objectives taken from 'The National Curriculum 2014'

✓✓ = Achieved

Mental Strategies taken from 'Teaching Children to Calculate Mentally'