Tanfield Lea Community Primary School - Maths Long Term Plan—Year 6—Autumn

Key skills	CATCH UP	CATCH UP	ARITHME- TIC	Revisit Shape Y5	CATCH UP	CATCH UP	ARITHME- TIC	REVIST Rounding	CATCH UP	CATCH UP	ARITHME- TIC	REVISIT Fractions	CATCH UP	CATCH UP	ARITHME- TIC
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Number: F	Place Value	Number: Add and Subtract	Nun Multip	nber: llication	Nu	mber: Fracti	ions	Geometry of S	: Properties hape	Measuren Perimeter	nent: Area, & Volume	Numbe	er: Ratio	Arithme- tic (Residential)
	Read, write, or- der and compare numbers to 10,000,000	Rounding any whole number. Rounding to specific degrees of accuracy. To solve numbers and practi- cal prob- lems involv- ing the above.	Addition & Subtrac- tion Solve addi- tion and subtraction multi-step problems in contexts, deciding which oper- ations and methods to use and why. Perform mental calcula- tions, in- cluding with mixed oper- ations and large num- bers. Use estima- tion to check an- swers to calculations	Multiply up to 4digit by a two-digit number.	Divide numbers up to 4 digits by a two-digit number. Use knowledge of the order of opera- tions to carry out the 4 oper- ations From Frac- tions: Use division methods in cases where the answer had up to 2d.p.	Multiply and Divide Fractions Use com- mon factors to simplify fractions. Multiply simple pairs of proper fractions, writing the answer in simplest form. Divide proper fractions by whole num- bers.	Add and Subtract Fractions Add and subtract fractions with differ- ent denomi- nators.	Add and Subtract Fractions Add and subtract fractions with differ- ent denomi- nators and mixed num- bers using the concept lent frac- tions.	Angles – Measure and Draw To meas- ure angles. To draw angles. To draw 2- D shapes using given dimensions and angles.	Angles – Missing angles To recog- nise angles where they meet on a point, are on a straight line, or are vertically opposite, and find missing angles. To compare and classify shapes based on their prop- erties and find un- known angles in any trian- gles, quad- rilaterals or regular polygons.	Perimeter / Area Revisit perimeter and perime- ter of com- pound shapes (Not a Y6 objective) Area of rectangular shapes here. Recognise that shapes with the same pe- rimeter can have differ- ent areas and vice versa.	Area and volume Developing area (pre- Y6) Calculate the area of a triangles (and paral- lelograms). Calculate, estimate and com- pare vol- ume of cubes and cuboids using standard units.	Ratio Solve problems involving the rela- tive size of 2 quanti- ties where missing values can be found using integer multiplica- tion and division facts. Solve problems involving unequal sharing and group- ing using knowledge of frac- tions and multiples.	Percent- ages of amounts Solve prob- lems involv- ing the calculation of percent- ages e.g. 15% of 360 Include problems that involve increase / reducing prices or quantities by a per- centage.	Children in Year 6 will have the opportunity to spend one week as part of a residential visit. During this time, chil- dren who do not wish to take part in the resi- dential will consolidate key arith- metic skills.

Tanfield Lea Community Primary School - Maths Long Term Plan—Year 6—Spring

Key Skills	Revisit Area / Pe- rimeter	CATCH UP	CATCH UP	ARITHME- TIC	Revisit Ratio	CATCH UP	CATCH UP	ARITHME- TIC	REVIST Time	CATCH UP	CATCH UP	ARITHME- TIC
	1	2	3	4	5	6	7	8	9	10	11	12
	Number: Place Value		Measures: Reading scales, Time and Timetables.		Number: Money	Division and re- mainders	Number: Decimals a ag	Fractions, nd Percent- ges	Number: Factors	Number: Algebra	Geometry: Position and Direc- tion	Statistics
	To multiply and divide numbers by 10, 100 and 1000 giving answers up to 3d.p. including standard units of measure. Identify the value of each digit in numbers given to 3 decimal places.	Use nega- tive num- bers in context and calculate intervals across 0 To solve numbers and practi- cal prob- lems involv- ing the above.	solve com- parison, sum and difference problems using infor- mation presented in a line graph (Revisiting from previ- ous year)	Use, read, write and convert between standard units of measure of a larger unit (time). complete, read and interpret information in tables, including timetables (Revisiting from previ- ous year)	Solve prob- lems involv- ing addition, subtraction, multiplica- tion and division. Use estima- tion to check an- swers to calculations and deter- mine, in the context of a problem, an appropriate degree of accuracy.	Divide num- bers up to 4 digits by 2 digits inter- pret remain- ders as whole num- ber remain- ders, frac- tions, or by rounding, as appropri- ate for the context. Solve prob- lems which require answers to be rounded to a speci- fied de- grees of accuracy.	Compare and order fractions, including fractions > 1. Recall and use equiva- lences be- tween sim- ple frac- tions, deci- mals and percent- ages. HA: associ- ate a frac- tion with division and calculate decimal fraction equivalents (eg. 3/8 = 0.375)	Arithmetic Skills: Revisit multiplying mixed num- bers. Multiply one -digit num- bers with up to 2 decimal places num- bers.	Identify common factors, common multiples and prime numbers.	Use simple formulae Find pairs of numbers that satisfy an equation with 2 un- knowns.	Describe positions on the full co- ordinate grid (all 4 quadrants) Draw and translate simple shapes on the coordi- nate plane and reflect them in the axes	Calculate and inter- pret the mean as an average

Tanfield Lea Community Primary School - Maths Long Term Plan – Year 6–Summer

Key Skills	REVIST Factors / Multiples	CATCH UP	CATCH UP	REVISIT Measures	REVIST based on Paper 2	CATCH UP	CATCH UP	REVISIT Algebra	CATCH UP	CATCH UP	REVISIT Calcula- tion	CATCH UP
	1	2	3	4	5	6	7	8	9	10	11	12
	Statistics	Measures: Conversion	Geometry: Properties of shape	Number: Ratio	KS2 SATS	Statistics: Data Han- dling	Number: Square r unknown	Algebra, oots and variables	Number: Ratio and proportion	Statistics	Problem s investi	solving and gations.
	Interpret and con- struct pie charts and line graphs and use these to solve prob- lems	Solve prob- lem involving the calcula- tion and con- version of units of measure, including decimal nota- tion up to 3dp. Convert be- tween miles and kilome- tres.	Illustrate and name parts of circles Know that the diame- ters is twice the radius Recognise, describe and build simple 3D shapes, including . 2 lessons + Roman Nu- merals in SATs week	Solve prob- lems involv- ing the relative size of 2 quanti- ties where missing values can be found using inte- ger multipli- cation and division facts. Solve prob- lems involv- ing unequal sharing and grouping using knowledge of fractions and multi- ples.	Statutory Assessments for the end of KS2.	Interpret and construct pie charts and line graphs and use these to solve prob- lems. Calculate and interpret the mean as an average	To under- stand square roots (KS3) To generate and de- scribe linear number sequences, enumerate possibilities of combina- tions of 2 variables Express missing number problems algebraical- ly	To gener- ate and describe linear num- ber se- quences Generalise on number patterns.	Solve prob- lems involv- ing similar shapes where the scale factor is known or can be found.	Interpret and con- struct pie charts and line graphs and use these to solve prob- lems.	Children will be given op- portunities to apply and prac- tise skills gained throughout KS2 in investiga- tion and problem solving contexts	Children will be given opportuni- ties to apply and prac- tise skills gained throughout KS2 in investiga- tion and problem solving contexts