Cloudside Academy
MTP Year 4 Autumn 2 2019-20

Cloudside Academy
A L.E.A.D. Academy

Resources	Mastery:	Links to prior learning/ objectives
Base10, place value charts, rulers, number lines that go below zero, rectangles, money, axis, place value counters, place value sliders	**(where to find some resources)** • Teaching for Mastery • White Rose • Mastery maths stickers • Nrich (curriculum mapping)	~ Compared and ordered numbers to 1,000. ~ used Base10 to represent Place value of ones, tens, hundreds and thousands. ~ focussed on multiplication facts for 2,5,10,3,4 and 8. ~ had experience of interpreting bar charts, pictograms and tables. ~ counted in multiples of 2,5 and 10 which link with the scales along a graph. ~ seen units of measure but as separate (4Kg and 600g), converting only simple known facts(1000g = 1kg/ 100cm=1m/ 10mm= 1cm/ 1000ml = 1l).

Dates Focus	Objectives	Vocabulary	Barriers to ARE (misconceptions)
Week 1 4.11.19	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Addition, subtraction, sum, altogether, total, add, subtract, minus, difference, how many more, how many less,	Place value understanding. Accuracy with counting Fluency with building ten Ability to exchange when necessary. Accuracy when completing column addition/ subtraction Reading and **Interpreting** word problems
Week 2 11.11.19	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Discrete, continuous, data, graph, table, bar chart, pictogram, line graph, table, sum, difference, scale, intervals, multiples, time graph, comparison, total, more, less,	Counting in multiples of 2, 5, 10, 100, 50, 25. Reading and interpreting the axis of a graph. Interpreting what a graph demonstrates. Recognising the value of what something represents (picture in a pictogram). Reading and interpreting of questions.
Week 3 18.11.19	Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to two decimal places	Decimal, rounding, place value, tenth, hundredths, compare, order, decimal places,	Place value understanding. Combining the decimal digits to read as 9.35 nine point thirty-five rather than nine point three five. Recognising that there are digits less than ones. Rounding understanding- recognising each whole number either side and not moving a whole one/ten/hundred/ tenth/

			hundredths less. Recognising the number of digits per number and their value.
Week 4 25.11.19	Count in multiples of 6, 7, 9, 25 and 1000. Recall multiplication and division facts for multiplication tables up to 12 × 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.	Multiples, ascending, descending, place value, multiplication and division facts, multiplying, dividing, sharing, lots of, product, groups of, divisor, derived facts, known facts, patterns.	Difficulty with recalling multiplication facts especially 2,5,10. Ability to use what they know to create derived facts- 6 x 7 as 3 x 7 and 3 x 7. Ability to recognise patterns between multiplication facts. Seeing multiplying by 0 or 1 as no lots of or1 lot of so the answer will be nothing or the same amount. Seeing dividing by 1 and sharing the amount into groups of 1 so the number of groups is the same as the amount. Keeping track of what they have multiplied when multiplying 3 numbers.
Week 5 2.12.19	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. (Link to measure and converting)	Place value, dividing, increasing, decreasing, tenths, hundredths, conversion, grams, kilograms, metres, milli-meters, centi-metres, litres, milli-litres, units of measure	Struggle to see the link between place value/ base ten system and dividing by 10 or 100. Ability to see how a non-decimal number becomes a decimal number after dividing by 10 or 100. Understanding of the key facts with regards to conversion of units of measure. Understanding of units of measure.
Week 6 9.12.19	**Assessment week?** **Assessments and use this time to focus on any gaps in learning and especially key skills!**		
Week 7 16.12.19	Recognise and use factor pairs and commutativity in mental calculations	Factors, factor pairs, multiples, mental calculations, commutativity, known facts	Multiplication knowledge. Understanding of factors. Recognising that multiplication is commutative. Being able to use mental strategies- keep a track and remember the steps taken. Being able to articulate what steps they have completed

			mentally.