Cloudside
MTP Year 6 Autumn 2 2019-20

Resources	Mastery: (where to find some resources)	Links to prior learning/ objectives
Base10, place value charts, place value counters, multiplication squares, protractor, ruler, co-ordinate grids, mirrors, 2-D shapes, Nets, 3-D shapes.	• Teaching for Mastery • White Rose • Mastery maths stickers • Nrich (curriculum mapping)	~ Place value including decimal places. ~ Formal written methods for all 4 number operations. ~ Multiplication facts up to 12 x 12 and how to derive facts based on these. ~ Word problems for all four operations. ~ Co-ordinate sand co-ordinate grids across two quadrants. ~ 2-D and 3-D shapes- properties. ~ Reflections and translation across two quadrants.

Dates Focus	Objectives	Vocabulary	Barriers to ARE (misconceptions)
Week 1 4.11.19	Multiply one-digit numbers with up to two decimal places by whole numbers Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	Multiply, divide, multiplication, division, product, share, decimal, two decimal places, tenths, hundredths, estimation, accuracy, calculation, whole numbers	Multiplication knowledge. Place value understanding- not using a decimal point accurately. Estimation skills- being able to recognise whether something looks accurate. Accuracy. Rounding decimal place to meet the context.
Week 2 11.11.19	Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specified degrees of accuracy	Division, divide, share, decimal, remainder, two decimal places, degree of accuracy, rounding, whole number	Multiplication knowledge. Accuracy when using a formal written method for division. Place value understanding- what happens when dealing with decimal places or taking an answer to a decimal rather than a remainder/ fraction. Application of the skill within problems.
Week 3 18.11.19	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts	Dividing, multiplying, scale factor, scaling, relationships, integer, multiplication, division,	Multiplication knowledge. Accuracy with multiplication facts. Recognising the relationship between relative sizes. Recognising that each length increasing or decrease by the same

		shapes- names of shapes, parallel, perpendicular, vertical, horizonal, diagonal, adjacent, congruent.	factor. Understanding of the properties of shapes. Identifying what a missing value would be.
	Solve problems involving similar shapes where the scale factor is known or can be found		
Week 4 25.11.19	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	Circle, radius, diameter, circumference, pi, twice, multiply, divide,	Mixing up the terminology. Recognising the relationship between the diameter and radius. Doubling/ halving accuracy.
Week 5 2.12.19	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Angles, degrees, vertically, horizontal, opposite, congruent, adjacent, right angle, acute, obtuse, reflex,	Recall of angle facts. Recognising different angles and using the correct names. Addition and subtraction skills. Accuracy with calculating.
Week 6 9.12.19	Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	2-D, dimensions, measurements, angles, degrees, vertically, horizontal, opposite, congruent, adjacent, right angle, acute, obtuse, reflex, geometric, unknowns, quadrilaterals, polygons,	Understanding of properties of 2-D shapes. Mixing up terminology. Recall of definitions for the terminology. Recognising the relationship between 2-D and 3-D shapes. Visualising 3-D shapes and nets or nets as 3-D shapes. Recall of shapes names. Addition and subtraction skills. Accuracy with calculating.
Week 7 16.12.19	Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	Co-ordinate grid, quadrants, negative numbers, positive numbers, integers, intervals, axis, horizontal, vertical, plane, translate, position, co-ordinates, reflect, x and y axis,	Interpreting a co-ordinate grid. Recognising what each axis represents. Negative numbers Order of co-ordinates when reading, following and recording. Properties of shapes. Understanding of translation. Understanding of reflection. Accuracy when translating and reflecting. How to check for accuracy.