Year 6 Term 4

Week	Objectives	Small Learning Steps
1	**Fractions** • Multiply simple pairs of proper fractions, writing the answer in its simplest form revise. • Divide proper fractions by whole numbers. • Fractions within a pie chart	• Revise multiplying fractions by integers. • Multiplying unit fractions by unit fractions. • Multiplying non – unit fractions by unit fractions. • Multiplying non unit fractions by non-unit fractions. • Dividing unit fractions by whole numbers. • Dividing non unit fractions by whole numbers. • Problem solving with the above in a range of contexts including empty boxes. In SATS this is usually in the arithmetic paper, so skill needs to be secure. • Calculating fractions of a pie chart • Comparing fractions of a pie chart • Word problems linked to fractions of a pie chart.
2	**Scaling, Ratio and Proportion** • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. • Solve problems involving similar shapes where the scale factor is known or can be found.	• What is ratio and what is proportion? • Explore simple ratios such as 1:2 and explain what it means in terms of proportion. • Ratios for recipes – if recipe is for 2, what is it for 4, if recipe is for 2, what is it for 3? • SAT's Questions linked to ratio and proportion. • Comparing shapes and increase the area by doubling. How does the area change? • Comparing shapes that have been scaled up/down. • Comparing perimeter that has been scaled up/down.
3	**Time and Measure** • Revise 12 hour and 24-hour time and other time conversions. • Read the date – years in Roman Numerals. • Timetable problems • Calendar problems • Word time problems • Multi step measures problems links to 4 rules, including conversion of measures.	• Revise Roman Numerals and Year dates in Roman Numerals. • Revise minutes to seconds, days to weeks etc conversions. • Revise 12 hour and 24-hour time conversions. • Reading of a timetable and finding differences between times, selecting best time to get transport. • Read timetables with multiple times to find. • Calculate time from a timetable and compare times and differences between times. • Word problems linked to time – drawing number lines to support. • Solving multi step time problems. • Solving time problem linked to line graphs.
4	**Algebra** • Express missing number problems algebraically • Find pairs of numbers that satisfy an equation with two unknowns • Missing numbers, • Equivalent expressions (for example, $a + b = b + a$)	• Calculation problems with empty boxes. • If a = 2 and b= 5 what does a + b = etc. • If total is 10 and both a and b must be even what are the possible answers. • If 3k= 15 what is k = • Use previous SAT problems.

5	**Geometry** • Revisit area of rectangles and compound shapes. • Area of triangles and Parallelograms – skill only • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	• Revise how to find are of rectangle with not all the information present. • Revise how to find area of compound shapes with some information given. • Model how to find the area of a triangle. • Revise how to draw a triangle where 2 sides are given and one angle. • Model how to find the area of a parallelogram. • Name and label parts of a circle.