Maths Medium Term plan – Lent 1 Year 5/6

Driver: History Main learning Challenge: What remains of our early settlers?

	Week 1 x/ fractions FDP	Week 2 Division and Multiplication	Week 3 Ratio/prop Angles	Week 4 Angles	Week 5 Statistics	Week 6 Algebra
Maths Learning Challenge	**Y6** **Can you multiply simple pairs of proper fractions, writing the answer in its simplest form?** **Can you divide proper fractions by whole numbers?** **Y5 –** **Can you recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number?** **Can you add and subtract fractions with**	**Y6** **Can you divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division?** **Can you interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context?** **Can you multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication?**	**Y6** **Can you solve problems involving similar shapes where the scale factor is known or can be found?** **Can you solve problems involving the relative size of two quantities, where missing values can be found using integer multiplication and division facts?** **Y5** **Can you know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles?** **Can you identify: angles at a point and one whole turn**	**Y6** **Can you recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles?** **Can you find unknown angles in any triangles, quadrilaterals, and regular polygons?** **Y5** **Can you draw given angles, and measure them in degrees (°)?**	**Y6** **Can you interpret and construct pie charts and line graphs and use these to solve problems?** **Can you calculate and interpret the mean as an average?** **Y5** **Can you solve comparison, sum and difference problems using information presented in a line graph?** **Can you complete, read and interpret information in tables, including timetables?**	**Y6** **Can you express missing number problems algebraically?** **Can you use a simple formula?** **Y5** **Can you solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why?**

	the same denominator and denominators that are multiples of the same number?	**Y5** **Can you divide numbers up to 3 digits by a one-digit number using a written method and including remainders appropriately for the context?** **Can you multiply numbers up to 4 digits by one or two-digit numbers using a formal written method, including long multiplication for two-digit numbers?**	**(total 360°); angles at a point on a straight line and half a turn (total 180°); other multiples of 90°?**			
Basic Skills Focus	Y6 – Multiplication and inverse facts How to multiply and divide fractions Converting whole numbers into fractions Y5 – converting equivalent fractions Converting mixed numbers and proper fractions	Knowledge of multiplication facts and inverse (fact families) Y6 - Recap methods of division using bus stop (decimals) and chunking. Convert remainders Rounding Recap multiplication methods (4d x 2d including decimals) Y5 – Recap division	Y6 – multiples and inverse facts Finding fractions/% of numbers Scale factors of shapes introduced Bar modelling to assist with problem solving Y5 – Discuss different types of angles Identify different angles and understand degrees	Y6 – recognise angles Recap types of angles and use of degrees Understand different angles and find missing angles Y5 – Recap different types of angles Learn how to use protractor	Multiplication facts Y6 – reading scales Negative numbers/thermometers Interpreting data including pie charts Finding mean/average Y5 – Reading tables telling time/ reading time tables Interpreting data in time tables Reading and interpreting line graphs using > <	Y6 – Inverse number facts/machines How to use a formula Missing numbers Working backwards using inverse Using letters to represent numbers Y5 - Add and subtract numbers mentally with increasingly large numbers. Gather vocab related to +/-

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	>< = symbols understanding	methods by 1 digit Include remainders where necessary Recap x1 digit Introduce x2 digit numbers				Recap methods including with decimals
Number	Multiplication facts	Multiplication facts Division facts X 10/100/1000 Place value	Multiples of 9/90	Multiples of 9/90 Inverse number problems Missing number sentences	Difference between.. Reading scales (spotting patterns and sequences) Calculating time differences	Missing numbers 'I start with a number…' Y5 – vocab associated with addition and subtraction
Calculation	Y6 – x / fractions Y5 – converting fractions Adding fractions with same denominator and multiples of the same number.	Y6 – 4 digit divided by 2 digit Division including decimal answers 4 digit x 2 digit Y5 – 3d divided by 1 digit 4 digit x 2 digit	Y6 – finding missing quantities and scaling Y5 – identify different angles and degrees. Estimate sizes of angles.	Y6 – Finding missing angles Y5 – estimating and then measuring angles accurately	Y6 – Mean/average Y5 – Calculating with time Calculating difference in data sets	Y6 – all 4 operations using inverse/missing numbers, etc. Y5 – range of different multi-step word problems in context.
Shape and Measure	Timelines Saxon Money	Timelines Saxon Money	Map use – orienteering/scales on maps	Map use – orienteering/scales on maps	Reading graphs	NA
Problem solving	Y6 - Word problems e.g. Find the fraction of the land taken over by Saxons Focus Summer 1 week 3 Summer 2 week 3 Y5 – World problems related to Saxons	Y6 – Word problems SATs style questions Y5 – Word problems Challenge: Write own word problems to accompany calculation	Y6 – recipe converting Scales on maps to convert SATs style questions Y5 – Orienteering around the school/map of Europe identifying angles and turns. Information poster for display	Y6 – SATs style questions Identify angles in Viking alphabet Y5 – Follow instructions to create a given image. Follow instructions to move around York	Y6 – SATs style questions Challenge: Use Saxon/Viking Stats to create own data sets Y5 – Write own statements about graphs and timetables provided using > < = statements	Y6 – SATS style questions Y5 – Saxon/Viking word problems Focus challenge
Generalising/Reasoning	Y6 - Focus Summer 1 week 3 Summer 2 week 3	Y6 – Missing number problems (e.g. SATs style)	Y6 – Focus Spring 2 Week 2	Y6 – Focus Autumn 2 Week 3	Y6 – Describe patterns visible in graphs provided.	Y6 - Create own formula from facts provided

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	Y5 – Use pictorial representations to explain how to add/subtract fractions and convert mixed to improper	Fill in gaps and explain how you know Y5 – Where's Miss Sweeney gone wrong? Explain what she should have done instead.	Y5 – Focus Autumn 1 week 4	Y5 – 'How to…' guide	Predict onward trends. Y5 – explain how to interpret information in a line graph or a table.	Y5 – Missing number problems
Key Vocabulary	Denominator, numerator, multiples, equivalence, product, mixed number, improper fraction, convert	Multiply, divide, product, share, equal, times, remainder, decimal, digit, place value	Y6 – ratio, proportion, scaling, scale, multiples, fractions Y5 – acute, obtuse, reflex, degrees, right angle, turn, straight line	acute, obtuse, reflex, degrees, right angle, turn, straight line, triangle, right angle, quadrilateral	Axis, compare, trend, scale, graph, chart, mean, average, interpret, analyse	Algebra, missing number, unknown, inverse, backwards, formula Y5 – add, subtract, total, difference, operations, equals, sum, addition, plus, minus, take away, remove
Wider curriculum opportunities/links	Where can you settle? Timelines (History link) Map use – Scales (Geography link)		Can you be a Viking invader? Describe positions on the full coordinate grid (all four quadrants)		What remains of our early settlers? Ageing artefacts	
Pre teaching	Multiples and multiplication skills Understanding of proper fractions/whole numbers and improper fractions	Y5 – division without remainders is consolidated. Y6 – Division by 1 digit with remainders is consolidated and understood. Multiplication with decimals is recapped.	Y5 – Understanding of angles and what they are. How they are identified. Y6 – simple recipes used to share understanding of scaling/when it is used/why it is used	Y5 – learn how to use a protractor Y6 – recap knowledge of different types of angles and how to use a protractor	Y5 – recap how to read scales and tables accurately. Y6 – recap scales Recap finding mean Read simple graphs to compare ways data can be shown.	Y5 – Addition and subtraction vocabulary refresher Y6 – simple one-step missing number problems.