

Driver: Science

Main learning Challenge: Who had to make a small step?

	<b>Week 1 - Number</b>	<b>Week 2 – Addition and Subtraction</b>	<b>Week 3 – Multiplication</b>	<b>Week 4 - Division</b>	<b>Week 5 - Fractions</b>	<b>Week 6 - Percentages</b>	<b>Week 7 Measure and Time</b>
<b>Maths Learning Challenge</b>	Number Y5 - Rounding Reading order compare decimals to 3.d.p	Y5 - Can you use formal written methods to add and subtract numbers up to 4 digits? Y6 - Can you solve addition and subtraction multi-step problems? Can you add and subtract fractions with different denominators?	Y5 - Can you multiply numbers up to 4 digits by 1 digit numbers using formal written method? Y6 - Can you multiply numbers up to 4 digits by 2 digit numbers?	Y5 - Can you divide numbers up to 3 digits by 1 digit, including remainders? Y6 - Can you divide numbers up to 4 digits by 2 digit numbers, using short division and interpret remainders? Can you divide 4 digits by 2 digits using formal written method of long division?	Y5 - Can you identify, name and write equivalent fractions of a given fraction? Can you read and write decimal numbers as fractions? Y6 - Can you use common factors to simplify fractions and use common multiples to express fractions in the same denomination? Can you compare and order fractions?	Y5 - Can you write % as a fraction? Can you recognise and use %? Y6 - Can you recall and use equivalence between simple FDP?	Y5 - Can you solve problems involving converting between units of time? Can you convert between different metric units of measure? Y6 - Can you solve problems involving conversion of units of measure up to 3d.p.?
<b>Basic Skills Focus</b>	Rounding Ordering decimals	Mental addition and subtraction of numbers up to 100	Y5 - Multiply and divide numbers mentally, identify multiples and factors to known multiplication facts up to 12x12, use rounding to check accuracy of answer Y6 - Perform mental calculations, identify common factors, multiples and prime numbers	Y5 - read roman numerals up to 1000 Y6 - round whole numbers to required degree of accuracy	Y5 - add and subtract numbers mentally Y6 - perform mental calculations	Y5 - Read write and compare numbers up to 3 decimal places Y6 - identify common factors, multiples and prime numbers	
<b>Number</b>	Rounding Ordering decimals Roman numerals	Y5/6 Mental addition and subtraction of numbers up to 100 Y6 - Convert mixed numbers and improper fractions	Multiply and divide whole numbers and decimals by 10/100/1000 Identify multiples and factors	Multiply and divide whole numbers and decimals by 10/100/1000 Identify multiples and factors Interpret remainders	LCM/HCF Place value: tenths hundredths thousandths	X/ 100	Multiply and divide whole numbers and decimals by 10/100/1000
<b>Calculation</b>	Number	Addition/Subtraction (Including fractions)	Y6 - 4 digit x 2 digit and 1 digit x number with up to 2 d.p. Y5 - 4 digit x 1 digit	Y6 - 4 digit divided by 2 digit Y5 - 3 digit divided by 1 digit	Converting equivalent fractions Common multiples Division facts	FDP	Converting - multiplying/dividing by 10 100 1000

<b>Shape and Measure</b>			Area (a x b)	Converting units of measure using division by 10/100/1000	Fractions of shapes/whole number	% of shapes/whole numbers	Measure distances in the playground and convert to other units of measure
<b>Problem solving</b>		Y5/6 - Can you solve addition and subtraction multi-step problems in context? Y6 - SATs style questions Y5 - Multistep problems	Y5 - Multistep word problems  Y6 - SATs style questions	Y5 - Missing number sentences  Y6 - Interpret remainders	Y5 - Identify the equivalents  Y6 - SATs style questions	Y5 - One or both? rich  Y6 - SATs style questions	Y5 - Word problems  Y6 - SATs style questions
<b>Generalising Reasoning</b>		Find the missing numbers to make the statement true.	Y5 - Spot the mistake  Y6 - Always sometimes never	Y5 - What's the story of...? Always sometimes never  Y6 - Given answer, what's the questions? Explain mistakes	Y5 - P17-18 Mastery doc Y6 - p19 mastery document	Y5 - Write an instruction booklet to explain what % means and how to convert between fractions and %.  Y6 - What's gone wrong? Respond to statements about fdp	Y5 - p28 mastery curriculum timetables  Y6 - Measurement challenge activities around school
<b>Key Vocabulary</b>	Rounding, tenths, hundredths, decimal point, place value	Addition, sum, take away, subtract, altogether, less, minus, place value, steal	Multiply, lots of, product, groups of, extended column and compact methods, value, altogether, multiple, inverse, factor	Division, share, long division, short division, groups of, remainder, factor, chunking	Multiple, factor, denominator, numerator, equivalent, place value, decimal point	Fractions, decimals, percentages, place value, decimal point, equivalent, simplify, tenths, hundredths	Units, metric, imperial, convert
<b>Wider curriculum opportunities/links</b>		Who made a small step?		Why do we have day and night?		Can you journey on the Apollo 13?	