Maths Medium Term plan – Autumn 2   Year 3/4

Driver: Science   Main learning Challenge: How will Peter hear the wolf?

	Week 1 Judaism Week	**Week 2** Where did the story of Derby Road begin?	**Week 3**	**Week 4** How did past students study the story?	**Week 5**	**Week 6** Can you light up Long Eaton?	**Week 7**
Maths Learning Challenge	division Y3- Can you divide 2d by 1d use formal written methods? Can you solve problems, including missing number problems, involving multiplication and division? Y4- Can you divide 3d by 1d using formal written methods? Can you solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit?	multiplication Y3- Can you multiply 2d by 1d using informal methods? Can you estimate the answer to calculations and use the inverse to check? Y4- Can you multiply 2d by 1d using formal methods? Can you use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1?	shape Y3- Can you draw 2d shapes and make 3d shapes? Y4- Can you compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes?	position and direction Y3- Can you identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle? Y4- Can you describe positions on a 2-D grid as coordinates in the first quadrant?	addition Y3- Can you add 2d numbers using formal/informal methods? Can you solve problems linked to +? Y4- Can you add numbers with up to 4 digits using formal written methods where appropriate? Can you solve addition problems in context?	subtraction Y3- Can you subtract 2d numbers using formal/informal methods? Can you solve problems linked to -? Y4- Can you subtract numbers with up to 4 digits using formal written methods where appropriate? Can you solve – problems in context?	Y3-Can you compare and order unit fractions and fractions with the same denominator? Y4- Can you add and subtract fractions with the same denominator?
Basic Skills Focus	Y3- x 3 inverse multiples of 3 place value of 3D number estimating the answer recap formal method for multiplication Y4- x 6 multiples of 6 derived facts mentally	Y3- x3 calculate mathematic times and dived statements multiples of 100 sharing vocab division method- bus stop inverse facts missing numbers using the inverse rising stars style balancing	Y3- x 3 factors and multiples drawing 2D shapes shape properties 3D shapes and properties making 3D shapes Recognising 3D shapes different ways. Y4- x 6 multiples and factors	Y3- x3 derived facts recognise angles as a turn right angles greater than/less angles as a turn angles as a property of shape Y4- x6	Y3- x3 factors and multiples 10 more 3D add 1 formal method word problems Y4- x6 inverse facts estimate numbers	Y3- x3 inverse/ derived facts read/ write numbers to 1000 10 less formal method word problems Y4- x6 derived facts	Y3- x3 factors/ multiples counting in tenths fraction vocabulary unit fractions compare unit fractions compare fractions with same denominator Y4- x6 factors/ multiples

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	place value of 3D multiply by 0/1 divide by 1 recap formal method for multiplication	Y4- x 6 inverse/ derived facts dividing by 10/100 (answers in tenths? Hundredths?) formal method for division- bus stop method problem solving- distributive law	count backwards through zero properties of shape comparing/classifying (quadrilaterals/triangles)	inverse/ derived facts describe positions on a 2D shape on 1st quadrant Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/right and up/down	using different representations Round to the nearest 10 or 100 formal method word problems in context	place value 100 more or less formal method word problem in context	decimals equivalent to ½ round decimals to nearest whole number (when with one decimal place) fractions vocabulary add and subtract fractions (same denominator)
Number	Y3- Recognise the place value to each digit in a 3 digit number Multiples of 3 X3, Y4- Count in multiples of 6 and 1000 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1;	y3- Calculate mathematical statements for x and ÷ using multiplication tables multiples of 100 y4- 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	Y3- Recognise and describe 3-D shapes in different orientations Y4- Count backwards through zero to include negative numbers	Y3- Recognise angles as a turn. Y4- Describe movements between positions as translations of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon.	Y3- 3d + 1d Find 10 more/less Y4- Identify, represent and estimate numbers using different representati ons Round any number to the nearest 10 or 100	Y3- Read and write (words and numerals) numbers to 1000 Y4- Find 1000 more or less than a given number Recognise the place value of each digit in a four-digit number	Y3- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 Y4- Recognise and write decimal equivalents to 1/2 Round decimals with one decimal place to the nearest whole number
Calculation	multiplication	division	inverse	4 operations	addition	subtraction	4 operations

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Shape and Measure	measure	2d/ 3d shapes angles	time recap- wider maths link	shape
Problem solving	concept cartoon	always/sometimes/ never	rising stars problem solving/ reasoning books	
Generalising	NRICH rising stars problem solving/ reasoning books	Rising star example questions	complete the sequence	NRICH
Reasoning				
Key Vocabulary	multiply, divide, share, repeated addition, lots of, array, altogether, groups of, share equally.	Dimensions, turn, angle, degrees, sides, corner, faces, net, quarter, half, quadrilateral.	addition, subtract, take away, minus, add, more, make, altogether, total, equals, double, most, number line	
Wider curriculum opportunities/links	Share information leaflets about Long Eaton to different houses/ streets.	Calculate the time and distance for our walk to Trent College.	Measure templates you are using to create your school to light up.	Christmas decorations
Pre teaching	basic calculations- multiply and divide	angles as a property	4 operations	fractions