

Driver: Geographical Enquiry

Main learning Challenge: Can you build Hope for our planet?

	Can you build hope for habitats?		Can you build hope for our community?		Can you build hope for our planet?		
Maths Learning Challenge	<p>Multiplication</p> <p>Y3 Can you multiply 2 D by 1D using formal methods?</p> <p>Y4 Can you use formal methods for multiplication and division?</p>	<p>Position and direction</p> <p>Y3 – Can you recognise angles as a turn?</p> <p>Y4 – Can you describe movements between positions as translations of a given unit to the left/right and up/down?</p>	<p>Statistics</p> <p>Year 3 -Can you solve one-step and two-step questions using information presented in scaled bar charts, pictograms and tables?</p> <p>Year 4 – Can you solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs?</p>	<p>Correspondence problems</p> <p>Y3 – Can you solve problems selecting the correct calculation (+, -, x or ÷), including correspondence problems in which n objects are connected to m objects?</p> <p>Y4 – Can you solve problems involving multiplying and adding harder correspondence problems such as n objects are connected to m objects?</p>	<p>Area and perimeter</p> <p>Y3 – Can you calculate the perimeter of 2D shapes?</p> <p>Y4 – Can you find the area of rectilinear shapes by counting squares?</p>	<p>Measure</p> <p>Y3 – Can you solve problems linked to estimating and measure? (mass/weight kg g)</p> <p>Y4 – Can you estimate, calculate and compare different measures (including distance, weight and time)</p>	<p>Dependent on mid-term assessment</p>
Basic Skills Focus y3	<p>Y3- 3 x tables Method recap Place value understanding 1d x 1d rapid recall</p>	<p>Y3- 4 x tables Angle vocabulary Left/right Anti/ clockwise Angles within a</p>	<p>Y3 - 8 x tables Statistic vocabulary Axis, intervals, scale Counting in 10s, 50s, 100s to read scale Pictogram methods</p>	<p>Y3- 3,4,8 x table All calculation recap N objects/ m objects through</p>	<p>Y3- 3,4, 8 x table Measuring perimeter Calculating perimeter with all sides given</p>	<p>All table challenge Practical measuring of mass/ weight Place value for grams and kilograms</p>	

	1d x2 d rapid recall	shape/ on the clock.	Bar chart methods 2 step problem techniques	scaling recipes Rapid recall multiplication facts	Calculating perimeter of regular polygons with missing measurements 2D shape recap - irregular and regular		
Basic skill y4	Y4 All times tables Division bus stop recap Column multiplication recap Place value Subtraction to find remainders	Y4 All times tables Recap axes/ coordinate grids Translation left Translation right Translation up/down	Y4 All times tables Statistic vocabulary Axis, intervals, scale Counting in 5s, 10s, 25s 50s, 100s to read scale Pictogram methods Bar chart methods Sum and difrence recap	Y4 All times tables All calculation recap N objects/ m objects through scaling recipes Rapid recall multiplication facts Increasingly large numbers/ hard problems	Y4 All times tables Counting squares within regular shapes Within irregular shapes With given measurements but missing grids	Y4 Recap converting between cm/m/km Gram/ kg Second/ minute/ hour Day/ week/ month Estimating Calculating/ converting Problem solving techniques	
Number	Y3- 3d + 100s Estimate an answer x8 y4- Count in multiples of 9 and 25 Recognise and use factor pairs and commutativity in mental calculations	Y3- 3d + 100s Estimate an answer x8 y4- rounding to the nearest 10, 100, 1000 Find 1000 more or less than a given number	Y3- 3d + 100s Estimate an answer x8 Y4 - Order and compare numbers beyond 1000 Count backwards through zero to include negative numbers	Y3- 3d + 100s Estimate an answer x8 Y4 - Count in multiples of 9 and 25 Recognise and use factor pairs and commutativity in mental calculations	y3- 3d + 100s Estimate an answer x8 Y4 - Count in multiples of 9 and 25 Recognise and use factor pairs and commutativity in mental calculations Recognise the place value of each digit in a four-digit number	y3- 3d + 100s Estimate an answer x8 Y4 - Count in multiples of 9 and 25 Recognise and use factor pairs and commutativity in mental calculations	
Calculation	Division multiplication	position	Counting in scales	All methods	Addition/ multiplying sides		
Shape and Measure	Position		statistics		Measure		

Problem solving	rising star example questions Maths frame		always/sometimes/ never		Focus document		
Generalising	NRICH reasoning books Focus document		Reasoning documents Mastery documents Focus document		This is the answer What's the question		
Reasoning							
Key Vocabulary	Multiple, product Divisor, remainder, subtract.	Angles, reflex, acute, obtuse, right, degrees, turn, whole, half, quarter	Sum, total, add, more, plus, make altogether, equal to, double, units, partition Pictograms, bar charts, scale, interval	Scaling, m objects, all operation vocabulary	Perimeter, rectilinear, compound shapes, polygon, area	Measure, length, seconds, hours, minutes, leap year	
Wider curriculum opportunities/links	Create map to orienteer to Bunkpurugu.					Statistics- collect data, construct graphs	
Pre teaching	Telling the time to the nearest minute						