



Mathematics – Using and Applying Activities

		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS Reception		<p>Number: Match and sort, Compare amounts, Representing 1,2 &3, Comparing 1,2&3, Composition of 1,2&3, Representing numbers to 5, One more and less, Measure, shape and spatial thinking: Compare size, mass & capacity, Exploring Pattern, Circles and triangles, Positional language, Shapes with 5 sides, Time)</p>		<p>Number: Introducing zero, Comparing numbers to 5, Composition of 4 & 5, 6 7 & 8, Making pairs, Combining 2 groups, 9 &10, Comparing numbers to 10, Bonds to 10 Measure, shape and spatial thinking: Compare Mass 2, Compare capacity 2. Length & height, time. 3D shape, Pattern 2</p>		<p>Number: Building Numbers Beyond 10, Counting patterns beyond 10. Adding more, taking away. Doubling Sharing and Grouping, Even and Odd. Deepening understanding patterns and relationships. Spatial reasoning: Spatial reasoning (1), Match Rotate, Manipulate. Spatial reasoning (2), Compose and Decompose. Spatial Reasoning (3), Visualise and Build. Spatial Reasoning (4), Mapping</p>	
		<p>Whole School Challenge- Skittles (Statistics) Number - basket activity: https://nrich.maths.org/9716 Number talks: https://nrich.maths.org/14005 How long are you? https://nrich.maths.org/14657</p>		<p>Whole School Challenge- Let's Count (Statistics) Pattern making: https://nrich.maths.org/13250 Beat the clock: https://nrich.maths.org/14655 Calendar muddle: https://nrich.maths.org/13731</p>		<p>Whole School Challenge - Sports Maths (Measure/Statistics) Double trouble: https://nrich.maths.org/12746 Two halves: https://nrich.maths.org/13080</p>	
Year 1	White Rose	<p>Number: Place Value (within 10) Number: Addition and Subtraction (within 10) Geometry: Shape Number: Place Value (within 20)</p>		<p>Number: Addition and Subtractions (within 20) Number: Place Value (within 50) (Multiples of 2, 5, 10 to be included) Measurement: Length and Height Measurement: Weight and Volume</p>		<p>Number: Multiplication and Division (Reinforce multiples of 2, 5 and 10 to be included) Number: Fractions Geometry: Position and Direction Number: Place Value (within 100) Measurement: Money - Measurement: Time</p>	
	Explore Activities	<p>Whole School Challenge- Skittles (Statistics) Place Value - White Rose R & PS.ppt Addition and Subtraction - White Rose R & PS.ppt Geometry - NRICH: City of Towers https://nrich.maths.org/183/note Geometry - White Rose R & PS.ppt Number (Team Building) - NRICH: Number Match https://nrich.maths.org/6937 Place Value - White Rose R & PS.ppt Beam: Clap Tap P26 Repeating patterns and recording data</p>		<p>Whole School Challenge; Lets Count Addition - NRICH: Number Round Up https://nrich.maths.org/188 Addition and Subtraction - White rose R & PS.ppt Place Value - NRICH: That Number Square https://nrich.maths.org/8169 Place Value - White Rose R & PS.ppt Measurement - NRICH: Wallpaper https://nrich.maths.org/4964 Measurement (Weight and Volume) - White Rose R & PS.ppt Beam: Towers P34 Odd and Even numbers to 10</p>		<p>Whole School Challenge - Sports Maths (Measure/Statistics) Multiplication and Division - White Rose R & PS.ppt Fractions - White Rose R & PS.ppt Position and Direction - White Rose R & PS.ppt Place Value - NRICH: 100 Square Jigsaw 100 Square Jigsaw Measurement - Time - NRICH: Times of the Day https://nrich.maths.org/6609 Number - NRICH: I Like ... https://nrich.maths.org/6962 Measurement - Money - White Rose R & PS.ppt Beam: Tablecloth P74 Recognising and using the language of position</p>	
Year 2	White Rose	<p>Number: Place Value Number: Addition and Subtraction Measurement: Money Number: <u>Multiplication</u> and Division</p>		<p>Number: Multiplication and Division Statistics Geometry: Properties of Shape Number: Fractions Measurement: Length and Height</p>		<p>Position and Direction Problem solving and efficient methods Measurement: Time Measurement: Mass, Capacity and Temperature Investigations</p>	
	Explore Activities	<p>Addition and Subtraction NRICH: Always, Sometimes Never (First row) https://nrich.maths.org/12670 Multiplication and division NRICH: Making Longer, making shorter https://nrich.maths.org/5590 Money: The Puzzling Sweet Shop https://nrich.maths.org/223 Money: Ready to progress Year 2 Page 29 Beam "We can do it": Challenge 2 Adding tens Challenge 6 Ordering numbers to 100 Challenge 8- Adding money</p>		<p>Multiplication: Always, Sometimes Never (The "x" ones) https://nrich.maths.org/12670 Division Eggs in a basket NRICH https://nrich.maths.org/eggsinbaskets Geometry - Matching Triangles https://nrich.maths.org/5638 Fractions - NRICH: Paper Halving https://nrich.maths.org/13059 Beam "We can do it": Challenge 25 Symmetry Challenge 17 Fact families Challenge 16 - Calculating digits/ /Challenge 5 Fractions</p>		<p>Problem Solving and Efficient methods: NRICH School Fair Necklaces https://nrich.maths.org/9692 and Robot Monsters https://nrich.maths.org/2404/note Times: NRICH Times of day https://nrich.maths.org/6609 Capacity NRICH: Are you thirsty? https://nrich.maths.org/10390 BEAM "We can do it": Challenge 26 Position and Direction Challenge 36 Total presenting info Whole School Challenge - Sports Maths (Measure/Statistics) BEAM Challenge Page</p>	
Year 3	White Rose	<p>Number: Place Value Number: Addition and Subtraction Number: Multiplication and Division</p>		<p>Number: Multiplication and Division Measurement: Money Statistics Measurement: Length and Perimeter Number: Fractions</p>		<p>Number: Fractions Measurement: Time Geometry: Property of Shapes Measurement: Mass and Capacity</p>	
	Explore Activities	<p>Multiplication. (Trial and improvement) 'Zios and Zepts' https://nrich.maths.org/1005/note Place value (Trial and improvement) 'Four digit targets' https://nrich.maths.org/6342/note Place value. (Trial and improvement). 'Snail one hundred' https://nrich.maths.org/8303 Addition and subtraction. (Working systematically) 'Magic Vs' https://nrich.maths.org/6274/note Addition and subtraction. (Team work). 'Tug of war' https://nrich.maths.org/5897</p> <p>Whole School Challenge- Skittles (Statistics)</p>		<p>Measurement. (Trial and improvement) 'Area and perimeter' https://nrich.maths.org/7280/note Money. (working systematically) 'Buying a balloon' https://nrich.maths.org/186/note Fractions. (Team work) 'Fraction match' https://nrich.maths.org/6938 Multiplication (working systematically) 'Compare the calculations' https://nrich.maths.org/14739 Multiplication and division. (reasoning) 'Highest and lowest' https://nrich.maths.org/943</p> <p>Whole School Challenge- Let's Count (Statistics)</p>		<p>Fractions. (finding all of the possibilities). 'Fractional triangles' https://nrich.maths.org/2124 Time, measurement, Capacity (working systematically) 'Order! Order!' https://nrich.maths.org/7340 Properties of shape. (reasoning) 'Always, sometimes, never' https://nrich.maths.org/12673 Properties of shape. (reasoning) 'Sorting Logic' https://nrich.maths.org/7192 Mass and capacity. (team work) 'Well balanced' https://nrich.maths.org/6697</p>	

				Whole School Challenge - Sports Maths(Measure/Statistics)
Year 4	White Rose	Number: Place Value Number: Addition and Subtraction Measurement: Length and Perimeter Number: Multiplication and Division	Number: Multiplication and Division Measurement: Area Fractions Decimals	Decimals Measurement: Money Measurement: Time Statistics Geometry: Property of Shape Geometry: Position and Direction
	Explore Activities	<p>1) PV - Nrich - What do you need? https://nrich.maths.org/5950</p> <p>2) PV - WR R&PS Slide 7, Always, Sometimes, Never: Exploring positions of different digits</p> <p>3) A&S - Nrich - Strike it out https://nrich.maths.org/strike-it-out</p> <p>4) A&S - BEAM - Challenge 9 - Think of a number and/or Challenge 21 - Phone numbers</p> <p>5) M&D - Nrich - Shape times shape https://nrich.maths.org/5714</p>	<p>1) M&D - Nrich - Multiplication Squares https://nrich.maths.org/1134</p> <p>2) M&D - BEAM - Challenge 11 - What's the rule?</p> <p>3) Area and Perimeter - Nrich - Area and perimeter https://nrich.maths.org/7280</p> <p>4) Fractions - Nrich - A4 fraction addition https://nrich.maths.org/12937</p> <p>5) Decimals - Nrich - Spiralling decimals https://nrich.maths.org/10326</p>	<p>1) Money - Nrich - The Puzzling Sweet Shop - https://nrich.maths.org/223</p> <p>2) Time - BEAM - Challenge 33 - Sports day</p> <p>3) Statistics - Nrich - Plants https://nrich.maths.org/36</p> <p>4) Geometry shape - Nrich - Poly Plug Rectangles (need computer suite) - https://nrich.maths.org/polyplugrectangles</p> <p>5) Geometry P&D/symmetry - Nrich - Coordinate Cunning - https://nrich.maths.org/1279</p>
Year 5	White Rose	Number: Place Value Number: Addition and Subtraction Statistics Number: Multiplication and Division Perimeter and Area	Number: Multiplication and Division Number: Fractions Number: Decimals and Percentages	Number: Decimals Geometry: Properties of Shapes Geometry: Position and Direction Measurements: Converting Units Measurement: Volume
	Explore Activities	<p>1. Whole School Challenge - Skittles (Statistics)</p> <p>2. NRICH - Remainders (I'm Thinking of a Number)</p> <p>3. NRICH - Shape Star</p> <p>4. Measuring the perimeter and area of a room in the classroom/playground/house... compare the perimeter and area - what do you notice?... convert between measurements - what is x centimetres in metres? (Perimeter and Area)</p> <p>I See Maths (Multiplication and Division) http://www.iseemaths.com/wp-content/uploads/2017/07/I-See-Reasoning-UKS2-Multiplication.pdf</p> <ul style="list-style-type: none"> Explain the mistakes <ul style="list-style-type: none"> I Know... so... Rank by difficulty Matching number sentences <ul style="list-style-type: none"> Is it the same? Find x ways to... 	<p>1. Whole School Challenge - Let's Count (Statistics)</p> <p>2. NRICH - Remainders (I'm Thinking of a Number)</p> <p>3. NRICH - Factor-multiple Chains (Factors and Multiples)</p> <p>4. NRICH - More Fraction Bars (Fractions)</p> <p>5. NRICH - Fractions in a Box (Factors, Multiples and Fractions)</p> <p>6. Domino Game - I have... Who has? (Equivalent Fractions, Decimals and Percentages)</p> <p>7. NRICH - Donut Percents (Equivalent F, D and P)</p>	<p>1. Whole School Challenge - Sports Maths (Measure/Statistics)</p> <p>2. NRICH - Remainders (I'm Thinking of a Number)</p> <p>3. NRICH - A Puzzling Cube (Geometry)</p> <p>4. NRICH - Six Places to Visit (Geometry)</p> <p>5. NRICH - National Flags (Position and Direction)</p> <p>6. NRICH - Orange Drink (Ratio/Converting Units)</p> <p>7. NRICH - Planning a School Trip (Investigation)</p> <p>8. NRICH - At the Pumps (Converting between Measure)</p>
Year 6	White Rose	Number: Place Value Number: Addition, Subtraction, Multiplication and Division Fractions Geometry: Position and Direction	Number: Decimals Number: Percentages Number: Algebra Measurement: Converting Units Measurement: Perimeter, Area and Volume Number: Ratio	Geometry: Properties of Shapes Problem solving Statistics Investigations
	Explore Activities	<p>NRICH - Which Scripts? (PV)</p> <p>NRICH - Coded Hundred Square (PV)</p> <p>NRICH - Dacey Operations (Fractions)</p> <p>NRICH - Andy's marbles (Fractions)</p> <p>NRICH - Peaches today, peaches tomorrow... (Fractions)</p> <p>NRICH - Eight hidden squares (Geometry)</p>	<p>NRICH - Route product (Decimals)</p> <p>NRICH - Doughnut percents (%)</p> <p>NRICH - Gran, how old are you? (Algebra)</p> <p>NRICH - Weighing fruit & Temperature (Measurement)</p> <p>NRICH - Making boxes (P, A, V)</p> <p>NRICH - Mixing Lemonade (Ratio)</p>	<p>Transition unit: Spirals (Investigation)</p> <p>Transition unit: Golden Number (Investigation)</p> <p>NRICH - What's the weather like (Stats)</p> <p>NRICH - Cut nets (Geometry)</p> <p>NRICH - Nine-pin triangles & Triangles all round (Geometry)</p> <p>NRICH - Some secret codes (Investigation)</p>