

Year 6, Block 1, Medium Term Plan, Mathematics, 2021 – 2022

Block 1, Year 6	
National Curriculum Attainment Targets Pupils should be taught to:	Lesson Objectives Pupils will be taught to:
Number – Number and place value	Week 1
<ul style="list-style-type: none"> • read, write, order and compare numbers up to 10 000 000 and determine the value of each digit • round any whole number to a required degree of accuracy • solve number and practical problems that involve all of the above 	<ul style="list-style-type: none"> • Read and write numbers up to 10 000 000 and determine the value of each digit
	<ul style="list-style-type: none"> • Order and compare numbers up to 10 000 000 and determine the value of each digit
	<ul style="list-style-type: none"> • Round any whole number to a required degree of accuracy
	<ul style="list-style-type: none"> • Solve number problems and reason mathematically
Number – Addition and subtraction	Week 2
<ul style="list-style-type: none"> • perform mental calculations, including with large numbers • solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why • solve problems involving addition, subtraction, multiplication and division • use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy 	<ul style="list-style-type: none"> • Add mentally, including with large numbers • Use estimation to check answers
	<ul style="list-style-type: none"> • Subtract mentally, including with large numbers • Use estimation to check answers
	<ul style="list-style-type: none"> • Add and subtract decimals mentally
	<ul style="list-style-type: none"> • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why • Use estimation to check accuracy of answers
Geometry – Properties of shapes	Week 3
<ul style="list-style-type: none"> • recognise, describe and build simple 3-D shapes, including making nets 	<ul style="list-style-type: none"> • Recognise, describe and build simple 3-D shapes
	<ul style="list-style-type: none"> • Identify and build different nets for a cube
	<ul style="list-style-type: none"> • Construct nets for a cube and a cuboid
	<ul style="list-style-type: none"> • Construct nets for 3-D shapes with one or more triangular faces
Number – Multiplication and division	Week 4
<ul style="list-style-type: none"> • practise multiplication for larger numbers, using the formal written methods of short and long multiplication * • perform mental calculations, including with large numbers • solve problems involving addition, subtraction, multiplication and division <ol style="list-style-type: none"> 1. use estimation to check answers to calculations 	<ul style="list-style-type: none"> • Multiply mentally, including with large numbers • Use the formal written method of short multiplication to calculate $ThHTO \times O$ • Estimate and check the answer to a calculation
	<ul style="list-style-type: none"> • Use the expanded written method to calculate $TO \times TO$ • Estimate and check the answer to a calculation
	<ul style="list-style-type: none"> • Use the formal written method of long multiplication to calculate $TO \times TO$ • Estimate and check the answer to a calculation
	<ul style="list-style-type: none"> • Solve problems involving addition, subtraction, multiplication and division
	Week 5
	<ul style="list-style-type: none"> • Use common factors to simplify fractions; use common multiples to express fractions in the same denomination • Compare and order fractions, including fractions > 1 <ol style="list-style-type: none"> 2. add and subtract fractions with same denominators and mixed numbers.
<ul style="list-style-type: none"> • Compare and order fractions, including fractions greater than 1 	
<ul style="list-style-type: none"> • Add fractions with same denominators and mixed numbers 	

	<ul style="list-style-type: none"> • Subtract fractions with same denominators and mixed numbers
Geometry – Position and direction	Week 6
<ul style="list-style-type: none"> • describe positions on the full coordinate grid (all four quadrants) <ol style="list-style-type: none"> 3. draw and translate simple shapes on the coordinate plane, and reflect them in the axes 	<ul style="list-style-type: none"> • Use coordinates to describe the positions of shapes in all four quadrants
	<ul style="list-style-type: none"> • Plot and label rectangles, squares, parallelograms and rhombuses in the four quadrants; use the properties of shapes to predict missing coordinates
	<ul style="list-style-type: none"> • Use coordinates to translate shapes into all four quadrants; use the properties of shapes to predict missing coordinates
	<ul style="list-style-type: none"> • Use coordinates to reflect shapes in the axes into all four quadrants; use the properties of shapes to predict missing coordinates
Consolidation	Week 7
	<ul style="list-style-type: none"> • review and consolidate topic 1-6
	<ul style="list-style-type: none"> • use Mathematics and TTR for consolidation
	<ul style="list-style-type: none"> • focus on problem solving