Emmanuel Junior Academy — Maths MTP 2022-23 — Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Place Value** • Numbers to 1,000,000 • Numbers to 10,000,000 • Read and write numbers to 10,000,000 • Powers of 10 • Number line to 10,000,000 • Compare and order any integers • Round any integer • Negative numbers		**Addition, subtraction, multiplication and division** • Add and subtract integers • Common factors • Common multiples • Rules of divisibility • Primes to 100 • Square and cube numbers • Multiply up to a 4-digit number by a 2-digit number • Solve problems with multiplication • Short division • Division using factors • Introduction to long division • Long division with remainders • Solve problems with division • Solve multi-step problems • Order of operations • Mental calculations and estimation • Reason from known facts					**Fractions** • Equivalent fractions and simplifying • Equivalent fractions on a number line • Compare and order (denominator) • Compare and order (numerator) • Add and subtract simple fractions • Add and subtract any two fractions • Add mixed numbers • Subtract mixed numbers • Multi-step problems • Multiply fractions by integers • Multiply fractions by fractions • Divide a fraction by an integer • Divide any fraction by an integer • Mixed questions with fractions • Fraction of an amount • Fraction of an amount – find the whole				**Converting Measures** • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures
Spring	**Ratio** • Use ratio language • Introduction to the ratio symbol • Ratio and fractions • Scale drawing • Use scale factors • Similar shapes • Ratio problems • Proportion problems • Recipes		**Algebra** • 1-step function machines • 2-step function machines • Form expressions • Substitution • Formulae • Form equations • Solve 1-step equations • Solve 2-step equations • Find pairs of values • download • Solve problems with two unknowns		**Decimals** • Place value within 1 • Place value – integers and decimals • Round decimals • Add and subtract • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers		**Fractions, decimals and percentages** • Decimal and fraction equivalents • Fractions as division • Understand percentages • Fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • download		**Area, perimeter and volume** • Shapes - same area • Area and perimeter • Area of a triangle – counting squares • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Volume - counting cubes			**Statistics** • Line graphs • Dual bar charts • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • download • The mean

				• Divide decimals by integers • Multiply and divide decimals in context	• Percentage of an amount – one step • Percentage of an amount – multi-step • Percentages – missing values	• Volume of a cuboid	
Summer	**Shape** • Measure and classify angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – special cases • Angles in a triangle – missing angles • Angles in quadrilaterals • Angles in polygons • Circles • Draw shapes accurately • Nets of 3-D shapes		**Position and direction** • The first quadrant • Read and plot points in four quadrants • Solve problems with coordinates • Translations • Reflections	National tests	Themed projects, consolidation and problem solving		