



St. Teresa's Catholic Primary School Maths Long Term Plan Class 7



Term	Maths Topics and Learning Objectives				
Autumn	<p><u>Number, Place Value and Rounding</u></p> <ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Recognise the place value of each digit in a 4-digit number. Order and compare numbers beyond 1,000. I can count in multiples of: <ul style="list-style-type: none"> ➤ 6, 7 and 9 ➤ 25 ➤ 1,000 Find 1,000 more or less than a given number. Round any number to the nearest 10, 100 or 1,000. Can count backwards through zero to include negative numbers. Solve number and practical problems with the above (involving increasingly large numbers). Read Roman numerals to 100 and know that over time the numeral system changed to include the concept of zero and place value. 	<p><u>Calculations (Addition and Subtraction)</u></p> <ul style="list-style-type: none"> I can add and subtract numbers with up to 4-digits using the formal written methods of columnar addition and subtraction. I can solve addition and subtraction 2-step problems in contexts, deciding which operations and methods to use and why. 	<p><u>Measurement: Conversion of Length and Perimeter</u></p> <ul style="list-style-type: none"> Convert between different units of measurements. (length) Measure and calculate the perimeter of a rectilinear figure in cm and m. 	<p><u>Calculations (Multiplication and Division)</u></p> <ul style="list-style-type: none"> Use place value, known and derived facts to multiply and divide mentally, including: <ul style="list-style-type: none"> ➤ multiplying by 0 and 1 ➤ dividing by 1 ➤ multiplying together three numbers. Recall multiplication and division facts up to 12x12 (Ongoing) Recognise and use factor pairs and commutativity in mental calculations. Multiply 2-digit numbers by a 1-digit number using formal written layout. 	<p><u>Geometry – Properties of Shapes and Position and Direction (Double Maths Day)</u></p> <ul style="list-style-type: none"> Compare and classify geometric shapes, including quadrilateral and triangles based on their properties and sizes. Complete a simple symmetric figure with respect to a specific line of symmetry. Identify lines of symmetry in 2D shapes presented in different orientations. Identify acute and obtuse angles and compare and order angles up to two right angles by size. 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. Describe positions on a 2D grid as coordinates in the first quadrant.
Spring	<p><u>Calculations (Multiplication and Division)</u></p>	<p><u>Measurement Area</u></p>	<p><u>Calculations Fractions</u></p>	<p><u>Calculations Decimals</u></p> <ul style="list-style-type: none"> Recognise that hundredths arise when dividing an object 	<p><u>Measurement: Time and Money (Double Maths Day)</u></p>

	<ul style="list-style-type: none"> Solve problems involving multiplying and adding, including: <ul style="list-style-type: none"> using the distributive law to multiply 2-digit numbers by 1-digit e.g. $49 \times 6 = 40 \times 6 + 9 \times 6 = 240 + 54 = 294$ integer scaling problems harder correspondence problems such as n objects are connected to m objects. Estimate and use inverse operations to check answers in a calculation. 	<ul style="list-style-type: none"> I can find the area of rectilinear shapes by counting squares. 	<ul style="list-style-type: none"> Recognise and show using diagrams, families of common equivalent fractions. Add and subtract fractions within the same denominator. Solve problems involving increasingly harder fractions and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 	<p>by a hundred and dividing tenths by ten.</p> <ul style="list-style-type: none"> Count up and down in hundredths. Find the effect of dividing a 1-digit or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Recognise and write decimal equivalents of any number of tenths or hundredths. Compare numbers with the same number of decimal places up to 2 decimal places. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. 	<ul style="list-style-type: none"> I can read, write and convert time between analogue and digital 12 hour clocks. I can read, write and convert time between analogue and digital 24 hour clocks. I can solve problems involving: <ul style="list-style-type: none"> converting from hours to minutes minutes to seconds years to months weeks to days.
Summer	<p style="text-align: center;"><u>Calculations</u> <u>Decimals</u></p> <ul style="list-style-type: none"> Solve simple measure and money problems involving fractions and decimals to 2 decimal places. Round decimals with one decimal place to the nearest whole number. 	<p style="text-align: center;"><u>Measurement:</u> <u>Conversion of Mass and Capacity</u></p> <ul style="list-style-type: none"> I can convert between different units of measurements. (kg and ml) 	<p style="text-align: center;"><u>Measurement:</u> <u>Money</u></p> <ul style="list-style-type: none"> I can: <ul style="list-style-type: none"> compare different measures, including money in £ and p. estimate different measures, including money in £ and p. calculate different measures. Including money in £ and p. 	<p style="text-align: center;"><u>Statistics</u></p> <ul style="list-style-type: none"> I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. I can solve comparison, sum and difference problems using information presented in: <ul style="list-style-type: none"> bar charts pictograms tables other graphs 	<p style="text-align: center;"><u>Revision and Consolidation</u> <u>(Double Maths Day)</u></p>