



St Augustine's Catholic Academy
Maths Intent Lent 2

Year 1	Place Value (2 Weeks) Length and Height (2 weeks) Mass and Volume (2 weeks)
National Curriculum	<p>Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Given a number, identify 1 more and 1 less.</p> <p>Compare, describe and solve practical problems for: lengths and height; mass/weight; capacity and volume; time. Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume; time.</p>
Core Knowledge	<p>To count forwards and backwards between 20 and 50. Counting in multiples of 10 up to 50. Count by making groups of tens. Represent numbers as groups of tens and ones. Partition numbers into tens and ones. To use a number line to count within and to 50. To estimate numbers to 50 on a number line. To find one more and one less (up to and including 50).</p> <p>To compare lengths and heights. To measure length using objects. To measure length in centimetres.</p> <p>To compare mass using heavier and lighter. To measure mass using non-standard objects. To compare mass using non-standard units of measure. To describe volume using full, nearly full, nearly empty and empty. To compare volume using more than and less than. To measure capacity using non-standard units of measure. To compare capacity.</p>
Skills	<p>Counting forwards and backwards within 50. Using a number line. Using a tens frame. Subitise using concrete objects. Identify tens and ones. To measure using non-standard objects. To measure using cm. Using a ruler. Using a balance scale. Using a measuring cylinder. Pouring water.</p>
Vocabulary	<p>Number ten frame count forwards backwards different tens ones numerals words part whole same different less more change represent mark number line start end greater less jump estimate compare greatest smallest notice number bonds doubles near doubles objects number sentence pattern.</p>



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Year 2	Length and Height (2 Weeks) Mass, Capacity and Temperature (3 Weeks)
National Curriculum	<p>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.</p> <p>Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$</p> <p>Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p>
Core Knowledge	<p>To measure in centimetres. To measure in metres. To compare length and height. To order length and height. To use all four operations to solve problems involving length and height.</p> <p>To compare mass. To measure in grams. To measure in kg. To use all four operations to solve problems involving mass. To compare volume and capacity. To measure in ml. To measure in L. To use all four operations to solve problems involving volume and capacity. To measure the temperature and solve problems involving $^{\circ}\text{c}$.</p>
Skills	<p>Using a ruler. Using a tape measure. Use $<>$ and $=$ To use a balance and circular scale. To read a scale using 1,2,5 and 10, 100. To pour water accurately. To use and read a measuring cylinder. To read a thermometer.</p>
Vocabulary	<p>Ruler cm measure object lined up length height metre short different greater than less than longer shorter compare longest tallest add subtract multiply divide Heavier lighter balance scale mass scale arrow pointing gram kilogram volume capacity container holding estimate efficient litres millilitres thermometer degrees Celsius.</p>

Year 3	Fractions A (3 Weeks) Mass and Capacity (3 Weeks)
National Curriculum	<p>Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</p>



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	<p>Recognise and show, using diagrams, equivalent fractions with small denominators.</p> <p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</p>
Core Knowledge	<p>Understand the denominators of unit fractions. Compare and order unit fractions. Understand the numerators of non-unit fractions. Understand the whole. Compare and order unit fractions and non-unit fractions. Identify and place fractions on a scale or number line. Count fractions on a number line. Identify equivalent fractions on a number line. Represent equivalent fractions using a bar model.</p> <p>Use and read scales (with intervals of 2,4,5 and 10 equal parts). To measure mass in grams. To measure mass in kg and g. To identify equivalent masses (g and kg). To compare mass. To solve problems involving mass (+ and -). To measure capacity and volume in L and ml. To identify equivalent capacities and volumes (L and ml). To compare capacity and volume. To solve problems involving capacity and volume (+ and -).</p>
Skills	<p>Identify equal parts. Read/Measure using a scale/measuring equipment. Use a number line. Use measuring scales (balance, circular) to calculate mass. Use measuring cylinders/jugs to measure volume and capacity.</p>
Vocabulary	<p>Diagram equal parts shaded denominator fraction divided equally same different compare numerator bar model unit fraction non-unit fraction pattern equivalent scale measure interval number line mass measurement grams kilograms half quarter exact heavier lighter total mass container volume capacity liquid.</p>

Year 4	Fractions (4 Weeks) Decimals A (3 Weeks)
National Curriculum	<p>Fractions Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3). Recognise and show, using diagrams, families of common equivalent fractions Add and subtract fractions with the same denominator.</p> <p>Decimals Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3). 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. Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</p>



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	<p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10.</p> <p>Recognise and show, using diagrams, families of common equivalent fractions.</p> <p>Compare numbers with the same number of decimal places up to 2 decimal places.</p>
Core Knowledge	<p>Fractions</p> <p>Understand the whole and identify how many parts are needed to make it (how many more).</p> <p>Count beyond one in fractions.</p> <p>Partition a mixed number in a variety of ways.</p> <p>Representing mixed numbers on a number line.</p> <p>Compare and order mixed numbers.</p> <p>Understanding improper fractions.</p> <p>Convert mixed numbers to improper fractions.</p> <p>Convert improper fractions to mixed numbers.</p> <p>Find equivalent fractions on a number line.</p> <p>Calculate equivalent fraction families.</p> <p>Add two or more fractions.</p> <p>Add and subtract fractions and mixed numbers.</p> <p>Subtract from whole and mixed numbers.</p> <p>Decimals</p> <p>To understand, represent and calculate tenths as fractions and decimals (including greater than 1).</p> <p>To represent tenths on a place value chart.</p> <p>To explore the relationships between tenths and whole numbers on a number line.</p> <p>To divide a one digit number by ten.</p> <p>To divide a two digit number by ten.</p> <p>To understand, represent and calculate hundredths as fractions and decimals (including greater than 1).</p> <p>To represent hundredths on a place value chart.</p> <p>To divide a 1 or 2 digit number by 100.</p>
Skills	<p>Split number and shapes into equal parts.</p> <p>Partition numbers.</p> <p>Use part whole models.</p> <p>Use a number line.</p> <p>To use a number line.</p> <p>To use a place value chart.</p> <p>To use part whole models.</p> <p>Divide by 10 and 100.</p>
Vocabulary	<p>Divided equal parts whole shaded fraction numerator denominator sequence forwards backwards proper fraction improper fraction mixed number partition diagram part whole intervals labelling previous compare integer fractional part remainder equivalent represent connection.</p> <p>Tenths hundredths decimal fraction equal equal parts value similar represent model column digit exchange number line intervals sequence start point end point equivalent greater smaller.</p>



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Year 5	Decimals and Percentages (3 weeks) Perimeter and Area (2 weeks) Statistics (1 week)
National Curriculum	<p>Read, write, order and compare numbers with up to 3 decimal places. Read and write decimal numbers as fractions. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Solve problems involving numbers up to 3 decimal places. Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place. Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per 100", and write percentages as a fraction with denominator 100, and as a decimal fraction.</p> <p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes.</p> <p>Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables, including timetables.</p>
Core Knowledge	<p>Represent decimals to 2 decimal places. Identify equivalent fractions and decimals (tenths). Identify equivalent fractions and decimals (hundredths). Identify equivalent fractions and decimals (halves, quarters, fifths and tenths). Understand and represent thousandths as fractions and decimals. Represent thousandths on a place value chart. Order and compare decimals. (up to 3 decimal places). Round to the nearest whole number. Round to one decimal place. Understand and calculate percentages. Represent percentages as fractions and decimals. Recognise equivalent fractions, decimals and percentages.</p> <p>Calculate the perimeter of rectangles. Calculate the perimeter of rectilinear shapes. Calculate the perimeter of polygons. Calculate the area of rectangles. Calculate the area of compound shapes. Estimate the area of shapes.</p> <p>Draw line graphs. Read and interpret line graphs. Read and interpret tables.</p>



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	<p>Read and interpret two way tables. Read and interpret timetables.</p>
Skills	<p>Use number lines, place value chart, bar models and part whole models.</p> <p>Partition numbers. Represent numbers using concrete objects. Multiply and divide by 10 and 100. Multiply and divide by a one digit number.</p> <p>Identify 2d shapes. Use a ruler.</p> <p>Read a line graph, two way table and a timetable. Create scales using knowledge of multiples. Multiply one digit numbers (and related facts).</p>
Vocabulary	<p>Represent place value chart same different tenth hundredth thousandth value digit column partition fractions decimals equivalent part whole equal to equivalent ascending descending integer round whole number percentage shaded</p> <p>Measure perimeter ruler length sides efficient method properties square rectangle rectilinear regular irregular area calculate approximate estimate combine covered half covered.</p> <p>Line graph vertical horizontal axis graph represent information solid dashed multiples summarise exact estimate column row heading table similar different information timetable blank space.</p>

Year 6	<p>Fractions, decimals and percentages (2 Weeks) Area, Perimeter and Volume (2 Weeks) Statistics (2 Weeks)</p>
National Curriculum	<p>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Compare and order fractions, including fractions > 1. Solve problems involving the calculation of percentages and the use of percentages for comparison.</p> <p>Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other unit.</p> <p>Interpret and construct pie charts and line graphs and use these to solve problems.</p>



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	<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (Year 4). Calculate and interpret the mean as an average.</p>
<p>Core Knowledge</p>	<p>To find equivalent fractions and decimals. To explore fractions as divisions. To use bar models to calculate and represent percentages. To find and calculate equivalent fractions and percentages. To find and calculate equivalent fractions, decimals and percentages. To order fractions, decimals and percentages. To calculate the percentage of an amount (one step). To calculate the percentage of an amount (multi-step). To use percentages to calculate missing values.</p> <p>Identify shapes with the same area by calculation. Calculate area and perimeter of rectilinear shapes efficiently. Calculate the area of triangles by counting squares. Calculate the area of right angled triangles. Calculate the area of any triangle. Calculate the area of a parallelogram. Calculate volume by counting cubes. Calculate the volume of cuboids.</p> <p>Draw, read and interpret line graphs. Draw, read and interpret dual bar charts. Draw, read and interpret pie charts. Read and interpret pie charts with percentages. Calculate and interpret the mean.</p>
<p>Skills</p>	<p>Use a bar model. Multiply and divide by 10 and 100. Separate numbers and shapes into equal groups. Represent numbers using concrete and pictorial representations. Use a place value chart. Partition numbers. Measure accurately. Identify 3d shapes. Identify fractions of shapes. Draw and measure using a ruler. Calculate fractions and percentages.</p>
<p>Vocabulary</p>	<p>Whole equal part fraction decimal convert numerator denominator equivalent percentage recurring shaded relationship simplified convert.</p> <p>Area perimeter polygon rectilinear shape factor pairs length right angled triangle perpendicular base height measurement units volume cubic centimetre equal layers efficiently.</p> <p>Line graph pie chart bar chart dual information axis represent data intervals direction sets vertical horizontal section popular value part equal percentage half quarter angle scale mean calculate share equally.</p>