Responsible
Respectful
Ready

Great Alne Primary School – Reception, Year 5 and 6

Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Maths	**Place Value** Base Line Assessment A Roman Numerals Numbers 10,000 Numbers to 100,00 Numbers to one million Numbers to ten million Compare and order to 100,000. Compare and order to 1,000,000, Compare and order. Round to 10, 100 and 1,000. Round withing 100,000 Round within one million. **Converting units** Base Line Assessment A Kilograms and kilometres Milligrams and millimetres Metric units Metric measures. **Statistics**	**Place Value** Round withing 10 million Counting in powers of 10 Negative numbers Negative numbers. Base line assessment B **Four Operations** Base Line Assessment A Add more than 4-digits. Subtract more than 4-digits. Inverse operations. Multi-step problems. Add and subtract integers. Multiples Common multiples Multiply by 10, 100 and 1,000. Divide by 10, 100 and 1,000. Multiples of 4-digits by 1 digit. Multiply 2-digits (part 1 and part 2) Multiple 2-digits by 2-digits. Multiple 3-digits by 2-digits. Multiple 4-digits by 2-digits. Factors. Common factors. Base Line Assessment B	**Fractions** Base Line Assessment A Equivalent fractions. Simplify fractions. Fractions on a number line. Improper fractions. Mixed numbers to improper. Number sequences. Compare and order less than. Compare and order more than. Compare and order (denominator). Compare and order (numerator). Add and subtract fractions. Add fractions within 1. Add 3 or more fractions. Add fractions. Add mixed numbers. Subtract fractions. Subtract mixed numbers. Subtract 2 mixed numbers. Mixed addition and subtraction. Multiply by an integer. Multiply fractions by integers.	**Ratio** Base Line Assessment A Using ratio language. Ratio and fractions. Introducing the ratio symbol. Calculating ratio. Use scale factors. Ratio and proportion problems. Base Line Assessment B **Decimals** Base Line Assessment A Decimals up to 2dp Decimals as fractions Understanding thousandths Thousandths as decimals Three decimal places Decimals as fractions Rounding decimals Order and compare decimals. Multiply by 10, 100 and 1,000. Divide by 10, 100 and 1,000. Multiply decimals by integers. Divide decimals by integers. Division to solve problems.	**Algebra** Base Line Assessment A Adding decimals within 1 subtracting decimals within 1 Complements to 1 Adding – crossing the whole Adding – same decimal places Subtracting – same decimal places **Properties of Shape** Vertically opposite angles. Lengths and angles in shapes. Angles in triangles. **Position and Direction** Base Line Assessment A Position in the first quadrant. The first quadrant Four quadrants Reflection Reflection with coordinates Reflections Reflection with coordinates Translation Translation with coordinates	**Algebra** Adding – different decimal places Subtracting – different decimal places Whole and decimals Decimal sequences Find a rule – one step. Find a rule – two step. Forming expressions. Substitution. Formulae. Forming expressions. One step equation two step equation Find pairs of values. Base Line Assessment B **Properties of Shape** Angles in triangles. Angles in quadrilaterals. Regular and irregular polygons. Drawing accurately. Drawing shapes accurately Reasoning about 3D shapes Nets of 3D shapes. Base Line Assessment B **Perimeter, Area and Volume** Estimate Volume

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	Base Line Assessment A Read and interpret graphs. Draw a line graph. Problems with line graphs.	Converting units Converting metric measures. Calculate metric measures. Miles and kilometres Imperial units Imperial measures Converting units of time Base Line Assessment A **Statistics** Read and interpret line graphs. Draw line graphs. Line graph problems	Multiply fractions by fractions. Base Line Assessment B **Statistics** Read and interpret tables. Two-way tables Timetables **Perimeter, Area and Volume** Base Line Assessment A Measure perimeter Calculate perimeter. Area and Perimeter. Area of rectangle. Area of compound shapes. Area of irregular shapes.	Fractions to decimals Understand percentages. Percentages as fractions and decimals. Equivalent FDP Fractions to percentages. Base Line Assessment B **Properties of Shape** Base Line Assessment A Measure angles in degrees Measuring with a protractor Angles on a straight line Angles around a point. Calculate angles. Statistics Circles. Read and interpret pie charts. Base Line Assessment	Base Line Assessment B **Perimeter, Area and Volume** Shapes – same area. Area of a triangle Area of a parallelogram. What is volume? Compare volume.	Volume – counting cubes. Volume of a cuboid Estimate capacity. Base Line Assessment B
	Continuous Provision <u>Money: Year 5</u> use all four operations to solve problems involving measure [for example, money]. <u>Time: Year 5</u> solve problems involving converting between units of time. <u>Time Year 6</u> Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa.					