ALP Year 6 Overview of Curriculum Content

Autumn	Spring	Summer
Ready to Progress Criteria **6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).** **6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.** **6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.** **6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.** **6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.** **6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions.** **6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value.** **6F-3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.**	**Ready to Progress Criteria** **6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.** **6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).** **6AS/MD-3 Solve problems involving ratio relationships.** **6AS/MD-4 Solve problems with 2 unknowns**	**Ready to Progress Criteria** **6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.**
Place Value **Step 1 Numbers to 1,000,000** **Step 2 Numbers to 10,000,000** **Step 3 Read and write numbers to 10,000,000** **Step 4 Powers of 10** **Step 5 Number line to 10,000,000** **Step 6 Compare and order any integers** **Step 7 Round any integer** Step 8 Negative numbers	**Decimals** Step 1 Place value within 1 Step 2 Place value – integers and decimals Step 3 Round decimals Step 4 Add and subtract decimals Step 5 Multiply by 10, 100 and 1,000 Step 6 Divide by 10, 100 and 1,000 Step 7 Multiply decimals by integers Step 8 Divide decimals by integers Step 9 Multiply and divide decimals in context	**Shape** Step 1 Measure and classify angles Step 2 Calculate angles Step 3 Vertically opposite angles Step 4 Angles in a triangle Step 5 Angles in a triangle – special cases Step 6 Angles in a triangle – missing angles Step 7 Angles in a quadrilateral Step 8 Angles in polygons Step 9 Circles Step 10 Draw shapes accurately Step 11 Nets of 3-D shapes
Operations Step 1 Add and subtract integers Step 2 Common factors Step 3 Common multiples Step 4 Rules of divisibility Step 5 Primes to 100 Step 6 Square and cube numbers Step 7 Multiply up to a 4-digit number by a 2-digit number **Step 8 Solve problems with multiplication** Step 9 Short division **Step 10 Division using factors** Step 11 Introduction to long division Step 12 Long division with remainders **Step 13 Solve problems with division** **Step 14 Solve multi-step problems** Step 15 Order of operations Step 16 Mental calculations and estimation **Step 17 Reason from known facts**	**Fractions, Decimals and Percentages** Step 1 Decimal and fraction equivalents Step 2 Fractions as division Step 3 Understand percentages Step 4 Fractions to percentages Step 5 Equivalent fractions, decimals and percentages Step 6 Order fractions, decimals and percentages Step 7 Percentage of an amount – one step Step 8 Percentage of an amount – multi-step Step 9 Percentages – missing values	**Position & Direction** Step 1 Language of position Step 2 Describe movement Step 3 Describe turns Step 4 Describe movement and turns Step 5 Shape patterns with turns

ALP Year 6 Overview of Curriculum Content

Fractions A **Step 1 Equivalent fractions and simplifying** **Step 2 Equivalent fractions on a number line** **Step 3 Compare and order (denominator)** **Step 4 Compare and order (numerator)** Step 5 Add and subtract simple fractions Step 6 Add and subtract any two fractions Step 7 Add mixed numbers Step 8 Subtract mixed numbers Step 9 Multi-step problems	**Area, Perimeter & Volume** **Step 1 Shapes – same area 6G-1** **Step 2 Area and perimeter 6G-1** **Step 3 Area of a triangle – counting squares 6G-1** **Step 4 Area of a right-angled triangle 6G-1** **Step 5 Area of any triangle 6G-1** **Step 6 Area of a parallelogram 6G-1** Step 7 Volume – counting cubes Step 8 Volume of a cuboid	**Statistics** Step 1 Line graphs Step 2 Dual bar charts Step 3 Read and interpret pie charts Step 4 Pie charts with percentages Step 5 Draw pie charts Step 6 The mean
Fractions B Step 1 Multiply fractions by integers Step 2 Multiply fractions by fractions Step 3 Divide a fraction by an integer Step 4 Divide any fraction by an integer Step 5 Mixed questions with fractions Step 6 Fraction of an amount Step 7 Fraction of an amount – find the whole	**Ratio** **Step 1 Add or multiply? 6AS/MD-1** **Step 2 Use ratio language** **Step 3 Introduction to the ratio symbol (combine step 1-3 if possible)** Step 4 Ratio and fractions **Step 5 Scale drawing 6AS/MD-1/ 6AS/MD-3** **Step 6 Use scale factors 6AS/MD-1/ 6AS/MD-3** **Step 7 Similar shapes 6AS/MD-1/ 6AS/MD-3** **Step 8 Ratio problems 6AS/MD-1/ 6AS/MD-3** **Step 9 Proportion problems 6AS/MD-1/ 6AS/MD-3** **Step 10 Recipes 6AS/MD-1/ 6AS/MD-3**	
Converting Units Step 1 Metric measures Step 2 Convert metric measures Step 3 Calculate with metric measures Step 4 Miles and kilometres Step 5 Imperial measures	**Algebra** Step 1 1-step function machines Step 2 2-step function machines Step 3 Form expressions Step 4 Substitution Step 5 Formulae Step 6 Form equations Step 7 Solve 1-step equations Step 8 Solve 2-step equations **Step 9 Find pairs of values 6AS/MD-4** **Step 10 Solve problems with two unknown 6AS/MD-4**	