

Maths Yearly Overview – Year 6

	Year 6			
WRS mall Steps	**Number: 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	**Number: Four Operations** • 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 multi-step problems • Order of operations • Mental calculations and estimation • Reason from known facts	Number: 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	**Measurement: Converting Units** • Measure metric • Convert metric • Calculate with metric measures • Miles and kilometres • Imperial measures



Vocabulary	**Number: Place Value**	**Number: Four Operations**	Number: Fractions	**Measurement: Converting Units**
	ten million millions thousands hundreds tens ones zero place value greater than order round rounded negative number partition digit interval sequence linear sequence	add total make plus sum more altogether difference leave subtract difference between less minus take away mentally/orally column addition/ column subtraction estimate inverse operation problem solving number facts place value complex	numerator denominator proper fraction improper fraction factor highest common multiple lowest common multiple equivalents common numerator common denominator decimal equivalent simplify simplest form mixed number whole number	mass gram kilogram capacity volume millilitre litre millimetre centimetre kilometre foot inch ounce pound stone pint gallon

Autumn Term

Spring Term

Year 6



WRSmall Steps	**Number: Ratio** • Add or multiply • Use ration language • Introduction to the ratio symbol • Ratio and Fractions • Scale Drawing • Use scale factors • Similar shapes • Ratio problems • Proportion problems • Recipes	**Number: Algebra** • 1-step function machines • 2-step function machines • Form expressions • Substitution • Formulae • Form equations • Solve 1-step equations • Solve 2-step equations • Find parts of values • Solve problems with two unknowns	**Number: Decimals** • Place value within 1 • Place value - integers and decimals • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context	**Number: 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 • Percentage of an amount - one step • Percentage of an amount - multi-step • Percentages - missing values	**Measurement: Area, Perimeter and Volume** • Shapes – same area • Area and perimeter • Area of a triangle - counting squares • Area of a triangle - angled triangle • Area of any triangle • Area of parallelogram • Volume – counting cubes • Volume of a cuboid	**Statistics** • Line graphs • Dual bar charts • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean
Vocabulary	**Number: Ratio** ratio proportion 'for every … there are…' part whole scale factor enlargement similar shapes length width perimeter	**Number: Algebra** term to term rule variable unknown expression equation formula one-step equation two-step equation pairs of unknowns enumerate substitution	**Number: Decimals** decimal place decimal fraction recurring decimal equivalent fraction tenth sharing partitioning exchanging rounding to 3d.p. hundredth thousandth equal to remainder grouping	**Number: Fractions, Decimals and Percentages** equivalent equal percent % out of 100 percentage discount equivalent fraction equivalent decimal convert compare order whole	**Measurement: Perimeter, Area and Volume** perimeter area volume cubic units squared units cuboid width length rectangle rectilinear parallelogram perpendicular height	**Statistics** bar chart pictogram frequency table tally chart pie chart discrete data line graph sum difference comparison interpret mean average



Summer Term

	Year 6		
WRSmallSteps	**Geometry: Properties of 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	**Geometry: Position and Direction** • The first quadrant • Read and plot points in four quadrants • Solve problems with coordinates • Translations • Reflections	**Revision** **Themed projects, consolidation and problem solving**
Vocabulary	**Geometry: Properties of Shape** angle right angle acute obtuse reflex protractor horizontal/ vertical/ parallel/ perpendicular polygon regular/ irregular two-dimensional (2D)/ three-dimensional (3D) flat face curved surface edge curved edge vertex/ vertices/ apex radius/ diameter/ circumference	**Geometry: Position and Direction** translate translation reflect reflection up down right left coordinates quadrant x-axis y-axis horizontal vertical	