Key Maths

6

SACRISTON ACADEMY

For each year group there is maths 'knowledge' that should be learnt off by heart. This key number knowledge and facts help children to calculate more efficiently and quickly. They also support children when they face maths problems, open ended questions and develop their confidence and ability in the subject.

Please help your child to practice and learn these facts, your support is greatly appreciated!

TIME		
KM1 - Time	**KM2 - Time**	**KM3 – Time**
Solve problems converting between units of time	Read time using Roman numerals	Read and understand timetables
Key vocabulary: 12-hour clock, 24-hour clock, analogue, digital	*Key vocabulary: 12-hour clock, 24-hour clock, analogue, digital*	*Key vocabulary: timetables*

FRACTIONS		
KM4 – Fractions	**KM5 – Fractions**	
Equivalent fractions, decimals and percentages	Simplifying fractions	
Key vocabulary: fractions, decimals, percentages, equivalents	*Key vocabulary: fractions, factors, multiples, simplify, times tables,*	

NUMBER

KM6 - Number Round any whole number to any required number of accuracy *Key vocabulary – rounding, place value, estimate*	**KM10 - Number** Know the value of each digit up to 10, 000, 000 *Key vocabulary: ones, tens, hundred, thousands, tens thousands, hundred thousands, millions*	**KM14- Number** Compare and order numbers up to at least 10, 000, 000 *Key vocabulary: ones, tens, hundred, thousands, tens thousands, hundred thousands, millions*
KM7 - Number Mentally add and subtract large numbers (including decimals) *Key vocabulary – addition, subtraction, plus, sum , total, find the difference, minus, take away*	**KM11 - Number** Know the order of operations e.g. BODMAS *Key vocabulary: brackets, multiplication, division, subtraction, multiplication*	**KM15 - Number** Identify common factors and multiples *Key vocabulary: factors, multiples*
KM8 - Number Identify prime, square and cube numbers *Key vocabulary – multiples, factors, square numbers, square-root, prime numbers, cube numbers*	**KM12 - Number** Identify prime and square numbers *Key vocabulary – multiples, factors, square numbers, square-root, prime numbers*	**KM16 – Number** Know division facts (up to 12 times tables) and have instant re-call *Key vocabulary: division, facts,*
KM9– Number Multiply decimals by 10, 100 and 1000 *Key vocabulary: multiply, decimal point, place value*	**KM13– Number** Divide decimals by 10, 100 and 1000 *Key vocabulary: divide, decimal point, place value*	

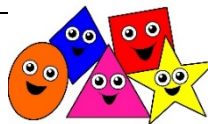| SHAPES and GEOMETRY	MEASURES
KM17 - Angles Know the total of angles around a turn and on a straight line *Key vocabulary: angle, turn, right-angle, reflex, obtuse, acute*	**KM24- Measures** Know the conversion between kilometres (Km) and miles. *Key vocabulary: metric, imperial*
KM18 - Angles Know the total of angles in triangles and quadrilateral. *Key vocabulary: angle, right-angle, reflex, obtuse, acute, 360° and 180°*	**KM25 – Measures** Know and convert units of measure for mass/weight (kg / g) *Key vocabulary: heavy, light, heavier, lighter, kilograms, grams*
KM19 - Shapes Know the properties and nets of 3D shapes *Key vocabulary: vertices, edges, faces, nets*	**KM26 - Measures** Know and convert units of measure for capacity and volume (l / ml) *Key vocabulary: holds, full, half full, empty, quarter, litres, millilitres*
KM20 – Shapes Know the algorithm for the area of a triangle i.e. bxh÷2 or $\frac{1}{2}$ breadth x height) *Key vocabulary: area, squared, base, height, multiply, divide*	**KM27 – Measures** Know and convert units of measure for capacity and volume (l / ml) *Key vocabulary: holds, full, half full, empty, quarter, litres, millilitres*
KM21 - Shapes Know the algorithm for the area of a parallelogram i.e. breadth x height (b x h) *Key vocabulary: area, squared, base, height, multiply*	
KM22 - Shapes Know the algorithm for the volume of a cuboid i.e. breadth x width x height (b x w x h) *Key vocabulary: volume, cubed, base, width, height*	
KM23– Shapes Know circle terminology *Key vocabulary: radius, diameter, circumference*	