

Maths Overview – Spring 1 2018[Type here]

Spring Term 1			
Wk	Yr	Strands	Weekly Summary
12	5	Number and place value (NPV); Mental addition and subtraction (MAS); Mental multiplication and division (MMD); Statistics (STA)	Explore place value in 6-digit numbers (PV additions and subtractions, compare numbers); add and subtract 1, 10, 100, 1000, 10 000 and 100 000 to/from 6-digit numbers; place 6-digit numbers on number lines and round to the nearest 100 or 1000; use negative numbers in the context of temperature and calculate rises and falls in temperature; find differences between temperatures
	6	Number and place value (NPV); Mental addition and subtraction (MAS); Mental multiplication and division (MMD); Statistics (STA)	Explore place value in 7-digit numbers (PV additions and subtractions, compare numbers); add and subtract 1, 10, 100, 1000, 10 000, 100 000 and 1 000,000 to/from 7-digit numbers; place 7-digit numbers on number lines and round to the nearest 10 000, 100 000 or 1 000 000; use negative numbers in the context of temperature and calculate rises and falls in temperature; calculate intervals across zero
13	5	Number and place value (NPV); Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Written multiplication and division (WMD)	Use place value to add and subtract; add and subtract near multiples of 100 and 1000; use counting up (Frog) to subtract 4-digit numbers from multiples of 1000; subtract pairs of 2-digit numbers with one decimal place; use Frog to find change from £100; use column addition to add amounts; use Frog to find the difference between amounts of money
	6	Number and place value (NPV); Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Written multiplication and division (WMD); Problem solving, reasoning and algebra (PRA)	Add and subtract near multiples of powers of 10, including decimals (e.g. +/- 2.99, 3.02); use knowledge of the order of operations and brackets to carry out calculations; explore the order of operations using brackets (e.g. $2 + 1 \times 3 = 5$ and $(2 + 1) \times 3 = 9$); use Frog to find change from £100 and use column addition to add several amounts; solve multi-step word problems and use brackets to record the necessary calculations
14	5	Number and place value (NPV); Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Decimals, percentages and their equivalence to fractions (DPE); Measurement (MEA)	Carry out place value additions and subtractions of numbers with one or two decimal places; multiply and divide by 10, 100 and 1000 (answers from two decimal places to 6-digit whole numbers); round decimals to the nearest whole and tenth; use written addition to add numbers with one or two decimal places and use rounding to estimate totals; add two or three numbers with two decimal places
	6	Number and place value (NPV); Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Decimals, percentages and their equivalence to fractions (DPE); Problem solving, reasoning and algebra (PRA); Measurement (MEA)	Carry out place value additions and subtractions of numbers with three decimal places; multiply and divide by 10, 100 and 1000 (answers from three decimal places to 7-digit whole numbers); round decimals to the nearest whole, tenth and hundredth; use written addition to add numbers with three decimal places in the context of measures (litres, km, kg); use rounding to estimate totals
15	5	Mental multiplication and division (MMD); Geometry: properties of shapes (GPS); Geometry:	Plot points and draw polygons in two quadrants; work out new co-ordinates after a translation; reflect a shape and write the new co-ordinates;

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		position and direction (GPD); Measurement (MEA); Statistics (STA)	draw line graphs of times tables; draw a conversion graph of imperial to metric units and use it to read off equivalent measures
	6	Mental multiplication and division (MMD); Geometry: properties of shapes (GPS); Geometry: position and direction (GPD); Measurement (MEA); Statistics (STA)	Plot points and draw polygons in all four quadrants; work out new co-ordinates after a translation or reflection; interpret and construct pie charts; draw a conversion graph of imperial to metric units and use it to read off equivalent measures
16	5	Number and place value (NPV); Mental multiplication and division (MMD); Written multiplication and division (WMD); Fractions, ratio and proportion (FRP); Problem solving, reasoning and algebra (PRA); Statistics (STA)	Find lowest common multiples and highest common factors; use mental strategies (factors and multiples) to multiply and divide by 5, 20, 6, 4 and 8; use short multiplication to multiply 4-digit numbers by 1-digit numbers; use rounding to approximate and use the commutativity of multiplication
	6	Number and place value (NPV); Mental multiplication and division (MMD); Written multiplication and division (WMD); Fractions, ratio and proportion (FRP); Problem solving, reasoning and algebra (PRA); Statistics (STA)	Solve problems involving rate; use mental strategies (factors and multiples) to multiply and divide by 5, 20, 6, 4 and 8; solve scaling problems; multiply and divide numbers with up to two decimal places (e.g. 0.4×6 , $3.5 \div 7$, 5×0.03 , $0.15 \div 3$); use long multiplication to multiply 3-digit then 4-digit numbers by numbers between 10 and 35 and use rounding to approximate