## Year 7 SOW - Middle

		Y7 Middle - HT1			
Chapter	Lesson	Learning objective	R	Α	G
		Read and write whole numbers in figures and words.	IX	_	
Using whole numbers	- Mental and written	Know what each digit represents			
	strategies	Add/subtract any pair of two-digit numbers.			
	Strategies	use a number line to add two numbers			
		use a number line to add two numbers			
		Approximate first and use informal pencil and paper methods to support,			
		record or explain addition and subtraction.			
		Develop calculator skills and use a calculator effectively, interpret the			
		display in different contexts			
	Ordering numbers	Use symbols ≥, ≤,< and >			
	Ordering numbers	Use the vocabulary of comparing, ordering, estimating and			
		approximating.			
		Order positive and negative integers (number line, temperature)			
	Multiplication and	Recall multiplication facts to 12 x 12 and quickly derive associated			
	Division-Mental and	division facts			
	written strategies	Recognise squares to at least 12 x 12 and the corresponding square			
	WhiteH strategies	roots			
		Use repeated doubling and halving; double any two-digit number			
		Partition to multiply mentally, for example, 46 x 7			
		To multiply and divide whole numbers/decimals by 10, 100 and 1000			
		Extend written methods to HTU x U and HTU x TU			
		Know and apply tests of divisibility of 2,3, 5, 10 or 100			
		Extend written methods to HTU ÷ U and HTU ÷ TU			
		Develop calculator skills and use a calculator effectively, interpret the			
		display in different contexts			
	Managing money	Use all four operations to solve money or 'real life' word problems			
	Managing money	To work out everyday money problems			
Working with	Ordering decimals	To order decimal numbers according to size			
_	Gracing accimals	Know what the digits of a decimal number stand for			
Decimal	Adding and subtracting	To add and subtract decimal numbers			
numbers	decimals	To add and Subtract decimal numbers			
	Multiplying and dividing	To multiply and divide decimal numbers by 10, 100 and 1000			
	by 10, 100 and 1000	1.0			
	Multiplying and dividing	To be able to multiply and divide decimal numbers by any whole number			
	decimals				
	Calculations with	To convert between common metric units			
	measurements	To use measurements in calculations			
		To recognise and use appropriate metric units			
Using numbers	The 12-hour and 24-	To read and use 12-hour and 24-hour clocks			
in real life	hour clocks	To convert between the 12-hour and 24-hour systems			
	The calendar	To read and use calendars			
Negative numbers	Negative numbers	To use a number line to order positive and negative whole numbers			
		To use a number line to calculate with negative numbers			
		Calculate temperature rises across 0°C and solve problems involving			
		negative temperatures			
		To carry out additions and subtractions involving negative numbers			L
		To carry out multiplications / Division involving negative numbers			<u> </u>
Order of	BIDMAS	To use the conventions of BIDMAS to carry out calculations			
operations		<u> </u>			L
		Review			

		Y7 Middle -HT2			
Chapter	Lesson	Learning objective	R	Α	G
Rounding /	Rounding and	To round numbers to the nearest whole number, 10, 100 or 1000			
Estimation	estimation	To round numbers to 1 dp ,2dp, 3dp			
		To round numbers to 1 sf ,2sf, 3sf			
		To estimate calculations in order to spot possible errors			
Perimeter, area	Perimeter	To work out the perimeter of 2D shapes.			
and volume		To work out the perimeter of compound shapes			
	Area	To work out the area of 2D shapes by counting the squares			
		To use a simple formula to calculate the area of a rectangle / triangle			
		To work out the area of compound shapes			
	Surface area of cuboids	To work out the surface area of cubes and cuboids			
		To work out the volume of cubes and cuboids			
	Volume of cuboids	To work out the volume of a cube and cuboid, using a simple formula			
		To work out the capacity of a cube or cuboid			
Expressions	Expressions and	To use algebra to write expressions			
	substitution	To substitute numbers into expressions / formulae			
	Simplifying expressions	To be able to simplify expressions			
	Using formulae	To use formulae	Î		
Multiples and	Multiples	To understand multiples and find the lowest common multiple			
factors	Factors	To understand factors and find the highest common factor			
	Prime numbers	To understand what prime number is			
		Review			

		Y7 Middle -HT3			
Chapter	Lesson	Learning objective	R	Α	G
Sequences	Function machines	To use function machines to generate inputs and outputs			
	Sequences and rules	To recognise, describe and generate sequences that use a simple rule			
		To find missing terms in a sequence			
		To work out the nth term			
	Other sequences	To know and understand the sequences of numbers known as the			
		square numbers, triangular numbers and the Fibonacci sequence			
Equations	Solving equations	To understand what an equation is			<u> </u>
q		To solve equations involving one operation			
		To solve equations involving two operations			
		To use algebra to set up and solve equations			
Coordinates and graphs	Drawing graphs	To understand and use coordinates to locate points in all four quadrants			
gιαριί <del>ο</del>		To generate a table of values using a calculator and draw the corresponding graphs			
		To draw a graph from a table of values (without a calculator)			
		To recognise and draw lines of the form y= mx+ c using the y-			
		intercept and the gradient			
	Graphs from the real	To learn how graphs can be used to represent real-life situations			
	world	To draw and use real-life graphs			
		Review			
		Y7 Middle -HT4		<u> </u>	
Chapter	Lesson	Learning objective	R	Α	G
Fractions	Equivalent fractions	To shade a fraction of a shape			
	1 '	To find a fraction of a quantity			
		To find equivalent fractions			
		To write fractions in their simplest form			
		To compare and order two fractions			
	Mixed numbers and	To convert mixed numbers to improper fractions			
	improper fractions	To convert improper fractions to mixed numbers			
	Adding and subtracting	To add and subtract fractions with the same / different denominator			
	fractions	(including mix numbers)			
	Multiplying and	To multiply/divide fractions			
	dividing fractions				
	Using a calculator	The four operations with fractions using a calculator			
Percentages	Percentages / Fractions	To understand the equivalence between a fraction, a decimal and a			
	of a quantity	percentage			
		To find a percentage / fraction of a quantity			
	Percentages of a	To find a percentage of a quantity with/without a calculator			
	quantity	To work out the result of a simple percentage increase/decrease			
Ratio	Introduction to ratios	To use ratio notation			
		To use ratio to compare quantities			
	Simplifying ratios	To write a ratio as simply as possible			
	Ratios and sharing	To use ratios to find missing quantities			
		To share an amount using a ratio			
		To understand the connections between fractions and ratios			
	Solving problems	To understand how ratios can be useful in everyday life			

Averages    Mode, median and range   To understand and calculate the mode, median and range of data   To understand and calculate the mean average of data   To use the mean and range of comparing mean and range   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range to compare data   To use the mean and range of data   To use the mean average of the mean average of the talk   To understand use grouped data   To use the mean average of data   To use the mean average of the talk   To use the mean average of the mean average of the mean average of the mean average of the			Y7 Middle -HT5			
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