

Core Knowledge			
1	Function		A function is a mathematical relationship between 2 sets of numbers.
2	Function machine		A function machine is a visual representation of a function. It consists of inputs, rules and outputs.
3	Input		Numbers that go into a function machine.
4	Output		Numbers that come out of a function machine.
5	Variable	x	Any letter used to stand for an unknown number.
6	Term	$3x$	Part of an expression, it may be a number, a letter or a product of both.
7	Expression	$3(2x - 4)$	An expression is one or a group of terms and may include variables, constants, operators and brackets.
8	Like terms	$2y \quad 10y \quad y \quad -y$	Like terms are terms which have the same variable, they can have a different number or sign. Like terms can be collected together by adding or subtracting.
9	Sum	$3 + 5 = 8$	To find the sum, you add.
10	Product	$4 \times 6 = 24$	To find the product, you multiply.
11	Index form	$4 \times 4 = 4^2$ (4 squared)	The index is the small number written up and to the right of a number. It shows the power of the number.
12	Distributive law	$6 \times (4 + 5) = (6 \times 4) + (6 \times 5)$ $6 \times 9 = 24 + 30$ $54 = 54$	The Distributive Law says that multiplying a number by a group of numbers added together is the same as doing each multiplication separately.
13	Expand brackets		To expand expressions with brackets, multiply everything inside the bracket by the number outside.
14	Formula	$E = mc^2$	A formula shows the relationship between different variables.
15	Substitute		Replace variables with known values.
Depth			
16	Coefficient	$3y$ has a coefficient of 3	The number which multiplies a variable
17	Equivalent expressions	$4(a + 4)$ and $4a + 16$ are equivalent For example, if $a = 2$: $4(2 + 4) = (4 \times 2) + 16$ $8 + 16 = 8 + 16$ $24 = 24$ The value of both expressions is 24.	Expressions which simplify to an equal value.