National 4 Expressions and Formulae 1.1	NS	ОТ	VG
Substitution		1	
I can substitute numbers into an expression and calculate an answer			
TJ Nat 4-2 Ch 14			
Expanding Brackets		1	
I can collect like terms in expressions such as $3a + 4b - a + 6c$			
I can expand brackets in the form $5(a \pm 2c)$ or $3(4x \pm 2)$			
I can expand brackets in the form $x(2x \pm 3)$			
TJ Nat 4-1 Ch 7, TJ Nat 4-2 Ch 17			
Factorising		1	
I can remove common factors from expressions in the form $9c + 27$, $6a - 8$, $x^2 - 3x$			
TJ Nat 4-2 Ch 17			
Patterns and Formulae		r	[
I can extend a straightforward number pattern (1,3,5,7,)			
I can determine the formula for a number pattern			
I can evaluate a pattern formula for a given value			
TJ Nat 4-1 Ch 16, TJ Nat 4-2 Ch 15			
Gradient		r	[
I can calculate gradient as <u>V / H</u>			
TJ Nat 4-2 Ch 4			
National 4 Expressions and Formulae 1.2	NS	ОТ	VG
Perimeter, Circumference and Area			
Perimeter, Circumference and Area I can calculate the perimeter and area of a composite shape			
I can calculate the perimeter and area of a composite shape			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 Surface Area and Volume			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 Surface Area and Volume I can draw the net of a prism I can calculate the surface area of a prism I can calculate the volume of a cylinder and other prisms if given the			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 Surface Area and Volume I can draw the net of a prism I can calculate the surface area of a prism I can calculate the volume of a cylinder and other prisms if given the area of the base TJ Nat 4-2 Ch 6 and 8			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 <u>Surface Area and Volume</u> I can draw the net of a prism I can calculate the surface area of a prism I can calculate the volume of a cylinder and other prisms if given the area of the base TJ Nat 4-2 Ch 6 and 8 <u>Symmetry</u>			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 Surface Area and Volume I can draw the net of a prism I can calculate the surface area of a prism I can calculate the volume of a cylinder and other prisms if given the area of the base TJ Nat 4-2 Ch 6 and 8 Symmetry I can reflect a shape in the x and y-axes			
 I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 Surface Area and Volume I can calculate the surface area of a prism I can calculate the surface area of a prism I can calculate the volume of a cylinder and other prisms if given the area of the base TJ Nat 4-2 Ch 6 and 8 Symmetry I can reflect a shape in the x and y-axes I can reflect a shape in the line y = x 			
I can calculate the perimeter and area of a composite shape I can calculate the area of a parallelogram, kite and trapezium I can calculate the circumference of a circle I can calculate the area of a circle TJ Nat 4-1 Ch 8, TJ Nat 4-2 Ch 11 Surface Area and Volume I can draw the net of a prism I can calculate the surface area of a prism I can calculate the volume of a cylinder and other prisms if given the area of the base TJ Nat 4-2 Ch 6 and 8 Symmetry I can reflect a shape in the x and y-axes			

National 4 Expressions and Formulae 1.3	NS	ОТ	VG
Mean, Median and Mode			
I can calculate mean, median, mode and range from a data sample			
I can use mean, median, mode and range to compare data sets			
TJ Nat 4-1 Ch 12 and Ch 24			
Frequency Tables			
I can calculate construct a frequency table from raw data			
I can use a frequency table to calculate mode, mean and median			
TJ Nat 4-2 Ch 16			
Graphs and Charts			
I can interpret Scattergraphs and Pie Charts			
I can draw Scattergraphs, Bar Charts and Pie Charts			
TJ Nat 4-1 Ch 12 and Ch 24			
Probability			
I can calculate the probability of an event happening			
TJ Nat 4-1 Ch 17			