3.3 Logarithmic and Exponential Functions

	At the end of this outcome I should	l can do	Revised
3.3.1	know that $a^y = x \Leftrightarrow \log_a x = y \ (a > 1, x > 0)$		23
3.3.2	know the laws of logarithms $\log_a 1 = 0, \log_a a = 1$ $\log_a bc = \log_a b + \log_a c$ $\log_a \frac{b}{c} = \log_a b - \log_a c$		
	$\log_a b^n = n \log_a b$	BOHA!	***************************************
3.3.3	simplify numerical expressions using laws of logs		
3.3.4	solve simple logarithmic and exponential equations e.g. $3.4^{x} = 5$	Kiley	not no
3.3.5	solve for a and b equations of the following forms, given two pairs of corresponding values of x and y $log y = a log x + b$		
	$y = ax^b$ $y = ab^x$		100
3.3.6	use a straight line graph to confirm relationships of the form $y = ax^{b}, \text{ also } y = ab^{x}$	188	
3.3.7	model mathematically situations involving the logarithmic or exponential function		
	from experimental data draw graph of logy against logx	r	

N.B. **Bold** type indicates Level A/B content.