

## Unit 4 - Exponential and Logarithmic Functions (approximately 15 days)

Reference Materials: MH 11 = Mathematics 11 (McGraw-Hill Ryerson 2001)  
 AW 12 = Mathematics 12 (Addison-Wesley 1988)  
 AWC = Advanced Functions and Calculus (Addison-Wesley 2003)  
 C = Advanced functions and Introductory Calculus (Harcourt 2002)  
 WC = Worked examples in Calculus (Tam 2000)

Other Resources: **TI-84** = Texas Instruments graphing calculator  
 E = MS Excel program on computer

Lesson	Topic	Practice work & Assessment
4.1	Exponents Review	C – 6.1 AW 11 – 1.1 & 1.2
4.2	Exponential equations	AW 11 – 1.3
4.3A	Investigating Exponential Functions - $f(x) = b^x$	C – 6.2 AW 12 – 10.1
4.3B	Transforming Exponential - $f(x) = ab^x + c$	C – 6.3
4.4	Applications of Exponential Function	C – 6.4 AW 11 – 1.3
4.5	Modeling Exponential Data	C – 6.5
4.6	Introduction to Logarithms	AW 12 – 11.1
4.7	Investigating Log Functions - $f(x) = a \log_b x + c$	C – 7.1 AW 12 – 11.4
4.8A	Properties of Logarithms - day 1	C – 7.2 AW 12 – 11.2
4.8B	Properties of Logarithms - day 2	C – 7.2 AW 12 – 11.3
4.9	Change of Base	C – 7.5 AW 12 – 11.7
4.10	Solving Logarithmic Equations	C – 7.3
4.11	Uses of Logarithms	C – 7.4
4.12	Review	C – chapter 6 & 7 AW 11 – chapter 1 AW 12 – chapter 10
	TEST	