

## Unit 5 - Trigonometric Functions (approximately 16 days)

Reference Materials: MH 11 = Mathematics 11 (McGraw-Hill Ryerson 2001)  
 AW 12 = Mathematics 12 (Addison-Wesley 1988)  
 R = Relations (Gage Publishing 1979)

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

Lesson	Topic	Practice work & Assessment
5.1	Radians and Degrees	MH 11 – 5.1
5.2	Trigonometric Ratios for any angle	MH 11 – 5.2 AW 12 – 7.3, 7.4
5.3	Special triangles and the Unit Circle	Investigations on Unit Circle
5.4	Equivalent Trigonometric Ratios (cofunction identities)	
5.5A	Compound Angle Formulas	R – 3.1, 3.2
5.5B	Compound & Double Angle Formulas	R – 3.3
5.6	Sketching basic trig functions (amplitude, period, phase shift, displacement)	$f(x) = \sin x$ , $f(x) = \cos x$ , $f(x) = \tan x$
5.7	Sketching Reciprocal Functions	$f(x) = \csc x$ , $f(x) = \sec x$ $f(x) = \cot x$
5.8A	Transforming Periodic Functions - day 1	MH 11 – 5.5 AW 12 – 8.9, 8.10, 8.11
5.8B	Transforming Periodic Functions - day 2	MH 11 – 5.6 AW 12 – 8.9, 8.10, 8.11
5.9A	Modeling Periodic Behavior - day 1	MH 11 – 5.4 AW 12 – 8.12
5.10	Trigonometric Identities	MH 11 – 5.7 AW 12 – 9.9
5.11A	Trigonometric Equations - day 1	MH 11 – 5.8
5.11B	Trigonometric Equations - day 2	MH 11 – 5.8
5.12	Review	
	TEST	