

## Unit 6 – Consolidation of Function Characteristics (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)  
 GA = Geometry and Algebra (Harcourt 2002)  
 R = Relations (Gage Publishing 1979)  
 WC = Worked examples in Calculus (Tam 2000)  
 WA = Worked examples in Algebra (Tam 2002)  
 PDT = Peter D. Taylor Questions in Advanced functions (2007)  
 OAME = Ontario Association of Mathematics Educations (2007)

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

| Lesson | Topic  | Practice work & Assessment     |
|--------|--|--------------------------------|
| 6.1    | Revisiting Function Concepts                       | OAME – 6.1                     |
| 6.2    | Real World Functions                               | OAME – 6.1 & 6.2               |
| 6.3A   | Combing Functions<br>(Addition & Subtraction)      | AW12 – 1.6<br>OAME – 6.3 & 6.4 |
| 6.3B   | Combing Functions<br>(Multiplying & Dividing)      | AW12 – 1.6<br>OAME – 6.5 & 6.6 |
| 6.4A   | Composite Functions                                | OAME – 6.7, 6.8 & 6.9          |
| 6.4B   | Composite Functions Problems                       | OAME – 6.7, 6.8 & 6.9          |
|        | MS Excel Lab<br>(Combined and Composite Functions) | Excel                          |
| 6.5A   | Average vs Instant Rates                           | OAME – 6.10, 2.5 & 3.8         |
| 6.5B   | Average and Instant Rate Problems                  | OAME – 6.10, 2.5 & 3.8         |
| 6.6A   | Regression Models                                  | OAME - 6.10                    |
| 6.6B   | Regression Models with Technology                  | OAME – 6.10 & 6.11             |
| 6.7    | Review   | OAME                           |
|        | Assessment   |                                |