**3UI - Unit 2 Introduction to Functions**

At the end of the unit students will be able to:

* demonstrate an understanding of functions, their representations, and their inverses, and make connections between the algebraic and graphical representations of functions using transformations

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| **Date** | **Topic** | **Learning Goals****By the end of today I will be able to…** | **Practise** |
| Thurs. Sept. 18 | **Ch 1 Intro to Functions**1.1 Relations & Functions1.4 Domain & Rangehttp://www.aperfectworld.org/clipart/office/printer02.gif | recognize functions & to use tables and graphs to find domain and range | p. 10 #1 –3, 6, 7a, 8, 9b [p13 #1-3]p. 35 #1 – 3, 5 |
| Fri. Sept. 19 | **P.D. Day** |  | No School |
| Mon. Sept. 22 | 1.2 Function Notation | use function notation to represent linear and quadratic functions | p. 22 #1, 2, 4 – 7, 9, 10 |
| Tues. Sept. 23 | **Quiz**1.3 Exploring Parent Functions1.4 Domain & Range cont… | to compare the graphs of 5 functions | p. 28 #1 - 3p. 35 #4, 9, 11 [16, 17] |
| Wed. Sept. 24 | 1.6 Exploring Transformations1.8 Graphing y=af[k(x-d)]+c | apply transformations to sketch graphs | p. 70 #1 – 5 |
| Thurs. Sept. 25 | 1.7 Investigating k & d1.8 Graphing y=af[k(x-d)]+c cont…2.5 Holes | to apply stretches and compressions to mother functions and to understand holes of a function | p. 52 A-Hp. 58 #1 – 5, 8, 10 [14, 15]p. 70 #6, 7 – 9ac, 10, 12, 16, 18 [20, 22] |
| Fri. Sept. 26 | **Quiz**1.5 Inverse Functions | to determine the inverse of a function and their properties | p. 46 #2 – 4, 5 – 7ace, 12 [19, 20] |
| Mon. Sept. 29 | Review |  | p. 76 #1 – 5, 7, 8, 10, 12 - 19 |
| Tues. Sept. 30 | **UNIT TEST** |  | p. 138 #1 – 3(If any of these understandings are missing, get help ASAP!) |

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