HONORS PRECALCULUS
UNIT 1: FUNCTIONS

DAY	LESSON	ASSIGNMENT
1	• Introductions • Problem Set – Preview of Concepts Learned	Classwork: Function Grid Homework: Finish Problem Set **This Will Be Graded**
2 **(1-1)**	• Determine whether relations between two variables are functions • Use function notation and evaluate functions • Find the domain and range of functions • Use functions to model and solve real world problems.	Optional: p. 82-87: 51, 61, 65, 81, 85, 87, 93-95 Homework: p. 82-87: 2, 5, 9, 12, 19, 20,34,35, **43**, 54, 55, 64, **70**, **80**,84, 88, 89, **94**, **95**, 97, **101**, 103
3 **(1-2)**	• Find the domain and range of a function • Use the vertical line test for functions • Determine intervals where a function is increasing or decreasing • Determine the relative maximum and relative minimum of functions • Identify and graph step functions and other piecewise functions • Determine whether a function is even or odd	Classwork: Review Problem Set Homework: p. 96-99: 1, 3, 9, 11, 16, 22, 27, **29**, 34, 36, 43, 46, 49, 66, **71**, **80**, **87**, **91-94**, 113 Piecewise Function
4 **(1-3)**	• ***Quiz 1: Problem Set Topics*** • To recognize the graphs of common functions • To use vertical and horizontal shifts to sketch graphs • To use non-rigid transformations to sketch graphs	Classwork: Mortimer Worksheet Homework: p. 106-108: **13**,39-44, 45, 55, 59, 65, 73, 77, 78, 80-83 **Function Worksheet Graded**
5 **(1-4)**	• ***Quiz 2: 1-1 through 1-3*** • To add, subtract, multiply and divide functions • To find the domain of a composition of functions • To use combinations of functions to model and solve real world problems	Optional: p. 116-119: 2-16 even, 23, 37, 39, 49, 51, 53, 58-64 even, 79 Homework: ***Anatomy of Functions*** p. 116-119: 45-48, 52-56 even, 65-70, 73, **76**, **77**, 81, **83**, **86**
6 **(1-5)**	• To find the inverse of a function algebraically • To use the graphs of functions to determine whether have inverses	Classwork: Homework: p. 127-129: 79-83 odd, 89, **90**, **92**, 93 **Composition & Inverses Worksheet**
7	• ***Quiz 3: 1-4 through 1-5*** • Applications using Word Problems 1	Classwork: p. 131: 1-79 odd Homework: p. 134: 1-21 Word Problems Wksht
8	• To clear up all misconceptions concerning the learning goals in unit 1	Classwork: Review Sheet
9	• ***Unit 1 Test***	Homework: Problem Set # 1 Read section 2-1