Unit 3: Quadratics (Vertex/Factored Form)

Q1/Q2: Determine the basic properties of quadratics relations. Relate transformations of the graph of $y = x^2$ to the algebraic representation $y = a(x - h)^2 + k$.

	Topic	Check Your Understanding
3.1	Investigating Non-Linear Relationships	p. 166 #C1,2,3,5 p. 172 #3
3.2	Properties of Quadratic Relations	**Set 1:** p. 172 #1 (graph by hand) #2, 6, 9 (with Desmos) **Set 1:** p. 172 #1 (graph by hand) #2, 5, 6, 9 (with technology)
3.3A	Investigating Transformations	p. 178 #2,3,6,7,9
3.3B	Investigating Transformations	p. 178 #C2,4,8,13,14
3.4A	Graphing: Vertex Form	**Set 1:** p. 185 #C3,1adh, 2bdfg, 3, 4, 6 **Set 2:** p. 185 #C3,1adh, 2bdfg, 3, 4, 6, 7
3.4B	Graphing Practice	Handout 3.4
3.5	Applications: Vertex Form	Handout: 3.5 Word Problems - Vertex Form
3.6	Creating Quadratic Equations	**Set 1:** p. 186 # 7b, 8, 9, 10a, 18 **Set 2:** p. 186 # 8, 9, 10, 13, 15, 18
3.7	Graphing: Factored Form (need technology)	**Set 1:** p.192 #3,4,5,7,8,10,11 **Set 2:** p.192 #3,4,5,7,8,10,11
	Review	p.202 #1-10 & p.204 #1-11

Test Date:_____