Unit 7, Chapter 11

GRAPHS OF QUADRATIC FUNCTIONS

Cornell Notes/Summary Sheet

Name: _____

Period: _____

Lesson 11.1 – Big Ideas

- Standard form of quadratic functions
- Parabola
- Direction of opening
- Absolute maximum or minimum
- Area & quadratic functions

Your Notes

Lesson 11.2 – Big Ideas

LINEAR			QUADRATIC	
		FUNCTION EQUATION		
		FIRST DIFFERENCES		
		SECOND DIFFERENCES		
		GRAPH		
		WHAT DOES THE LEADING COEFFICIENT TELL YOU ABOUT THE GRAPH?		

Lesson 11.3 – Big Ideas

- Interval notation
- Domain & range
- Zeros/x-intercept
- y-intercept
- Absolute maximum or minimum
- Intervals of increase & decrease

Your Notes

Lesson 11.4 – Big Ideas	**Your Notes**
• Factoring the greatest common factor (GCF) • Factored form of quadratic functions • *x*-intercepts	-
Lesson 11.5 – Big Ideas	**Your Notes**
• Vertical motion model • Axis of symmetry • Vertex • Using symmetric points to find the axis of symmetry & the vertex	
Lesson 11.6 – Big Ideas	**Your Notes**
• Vertex form of a quadratic function • All 3 forms of quadratic functions • Direction of opening • *y*-intercept • *x*-intercepts/zeros • vertex	
Lesson 11.7 – Big Ideas	**Your Notes**
• Transformations • Vertical & horizontal translations • Reflections • Dilations	