Algebra	Unit 7, Chapter 11 GRAPHS OF QUADRATIC FUNCTIONS Cornell Notes/Summary Sheet	Name: Period:
<ul> <li>Lesson 11.1 - Big Ideas</li> <li>Standard form of quadratic functions</li> <li>Parabola</li> <li>Direction of opening</li> <li>Absolute maximum or minimum</li> <li>Area &amp; quadratic functions</li> </ul>	<u>Your Notes</u>	

## Lesson 11.2 - Big Ideas

LINEAR			QUAD	DRATIC
		FUNCTION EQUATION		
		FIRST DIFFERENCES		
		SECOND DIFFERENCES		
		GRAPH		
		WHAT DOES THE LEADING COEFFICIENT TELL YOU ABOUT THE GRAPH?		
<ul> <li>Lesson 11.3 - Big Ideas</li> <li>Interval notation</li> <li>Domain &amp; range</li> <li>Zeros/x-intercept</li> <li>y-intercept</li> <li>Absolute maximum or minimum</li> <li>Intervals of increase &amp; decrease</li> </ul>	Y	<u>our Notes</u>		

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<u>Lesson 11.4 – Big Ideas</u>	Your Notes
• Factoring the greatest common factor (GCF)	
• Factored form of quadratic	
functions	
• <i>x</i> -intercepts	
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Lessen 11 5 Did Ideas	Vour Notos
<u>Lesson 11.5 – Big Ideas</u>	Your Notes
Vertical motion model	
Axis of symmetry	
• Vertex	
• Using symmetric points to find	
the axis of symmetry & the vertex	
<u>Lesson 11.6 – Big Ideas</u>	Your Notes
• Vertex form of a quadratic function	
All of an and from 1 at	
All 3 forms of quadratic functions	
<ul><li> All 3 forms of quadratic functions</li><li> Direction of opening</li></ul>	
functions	
<ul><li>functions</li><li>Direction of opening</li></ul>	
<ul><li>functions</li><li>Direction of opening</li><li><i>y</i>-intercept</li></ul>	
<ul> <li>functions</li> <li>Direction of opening</li> <li>y-intercept</li> <li>x-intercepts/zeros</li> </ul>	
functions <ul> <li>Direction of opening</li> <li>y-intercept</li> <li>x-intercepts/zeros</li> <li>vertex</li> </ul>	Your Notes
<ul> <li>functions</li> <li>Direction of opening</li> <li><i>y</i>-intercept</li> <li><i>x</i>-intercepts/zeros</li> <li>vertex</li> </ul>	Your Notes
functions Direction of opening <i>y</i> -intercept <i>x</i> -intercepts/zeros vertex <u>Lesson 11.7 – Big Ideas</u> Transformations	Your Notes
<ul> <li>functions</li> <li>Direction of opening</li> <li><i>y</i>-intercept</li> <li><i>x</i>-intercepts/zeros</li> <li>vertex</li> </ul>	Your Notes
functions Direction of opening <i>y</i> -intercept <i>x</i> -intercepts/zeros vertex <u>Lesson 11.7 – Big Ideas</u> Transformations Vertical & horizontal	Your Notes
functions Direction of opening <i>y</i> -intercept <i>x</i> -intercepts/zeros vertex <u>Lesson 11.7 – Big Ideas</u> Transformations Vertical & horizontal translations	Your Notes
<ul> <li>functions</li> <li>Direction of opening</li> <li><i>y</i>-intercept</li> <li><i>x</i>-intercepts/zeros</li> <li>vertex</li> </ul> Lesson 11.7 – Big Ideas <ul> <li>Transformations</li> <li>Vertical &amp; horizontal translations</li> <li>Reflections</li> </ul>	<u>Your Notes</u>
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