Topic: IM2 – 3.1 (N – 1) Key Characteristics of Quadratic Graphs		Standard(s): F.IF.4, F.IF.5	Notes
Essential Question: How can I identify the key characteristics of quadratic graphs?		DINGHS	
Questions / Big Ideas	Key Terms		
	$\underline{Parabola} \equiv a$ symmetrical open plane curve.		
	• The path of a projectile under the influence of gravity ideally follows a curve of this shape.		
	$\underline{Extrema} \equiv$ any point at which the value of a function is largest (a maximum) or smallest (a minimum).		
	 Minimum ≡ the lowest point on a graph. Maximum ≡ the highest point on a graph. 		
	<u>Vertex</u> \equiv This maximum or minimum point on a parabola.		
		2	4 6
	<u>Axis of Symmetry (AoS)</u> \equiv a line that passes the showing each side as a mirror image.	hrough the verte	ex of a parabola,
	 Each point on a parabola is equidistan side of the axis of symmetry. 	it from a point c	on the opposite
	 <u>Concavity</u> ≡ the directionality of a curve, such Convex ≡ parabola opens UP (smiles) Concave ≡ parabola opens DOWN (free 	h as a parabola.	



