

**Kari Emblem**

Student: \_\_\_\_\_

Grade: \_\_\_\_\_

## Rubric: angry birds project Pre-AP

Students will use quadratics to create and solve a problem situation based upon the angry birds game.

<b>Angry birds</b> Enter rubric description		<b>Excellent</b> <b>5 pts</b>	<b>Good</b> <b>4 pts</b>	<b>Fair</b> <b>2 pts</b>	<b>Poor</b> <b>1 pts</b>
<b>Design game picture</b> Enter description	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
	*picture includes sling shot (starting point) and original building with complex design (more than two geometric shapes involved) *picture has been colored	*picture includes sling shot (starting point) and original building (two geometric shapes involved) *picture is colored	*picture includes (starting point) and original building (one or two geometric shapes involved) *picture is colored	*picture is incomplete (missing building structure or starting point) *picture is not colored	
<b>determine paths of birds</b> Parabolic paths represent trajectories of birds	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
	*4 or more parabolic paths  *Parabolic paths are smooth and pass through starting point (sling shot) and vertex before hitting target and include ending point	*3 parabolic paths  *Parabolic paths are smooth and pass through starting point (sling shot) and vertex before hitting target and include ending point	*2 parabolic paths  *Parabolic paths are smooth and pass through starting point (sling shot) and vertex before hitting target and include ending point	*1 parabolic path  *Parabolic path is not smooth and does not pass through starting point (sling shot) and vertex before hitting target	
<b>data points</b> data points are clearly marked and are used to create parabolas	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
	*data points are clearly marked and labeled and are used to create parabolas * Data points include starting point (sling shot), vertex, and ending point (where bird hits the target)	*data points are clearly marked (but not labeled) and are used to create parabolas * Data points include starting point (sling shot), vertex, and ending point (where bird hits the target)	*data points are clearly marked (but not labeled) and are used to create parabolas * Data points include only 2 of the following: starting point (sling shot), vertex, and ending point (where bird hits the target)	*data points are not clearly marked, not labeled, and/or are not used to create parabolas	
<b>quadratic equations</b> Quadratic equations are created using vertex form	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	
	*Quadratic equations (in vertex form) accurately pass through all 3 points (sling shot, vertex, and target) *4 quadratic equations are present	*Quadratic equations (in vertex form) accurately pass through all 3 points (sling shot, vertex, and target) *3 quadratic equations are present	*Quadratic equations (in vertex form) accurately pass through 2 points (sling shot, vertex, and target) *2 quadratic equations are present	*Quadratic equation (in vertex form) does not pass through more than 1 point (sling shot, vertex, and target) *1 quadratic equation is present	

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