

Name: _____

Algebra 2: Midterm Project

Angry Birds Game Design Midterm Project Recording Sheet

Each student will hand in their own recording sheet.

This will count as a 100 point Test.

Keep your work neat and organized.

1.) Collect your data here: (In Step 6)

Step 6: Data Dump: Enter all your points. Pay attention to the COLOR.

X-Red	Y-Red	X-Blue	Y-Blue

X-Orange	Y-Orange	X-Green	Y-Green

2.) Record each equation here. Round to 2 decimal places:

<u>Angry Bird's Color</u>	<u>Angry Bird's Path Equation (round to 2 decimals)</u>
Red	
Orange	
Blue	
Green	

3.) Tell me the integer coordinates of your two PIGS: (In Step 9)

Pig 1: _____ Pig 2: _____

4.) Prove your bird hit your pig: (In Step 11)

What color bird hit Pig 1? _____

Write the equation of the bird that hit Pig 1: _____

Now, plug X from Pig 1 into the equation and solve for Y.

It should be close to the Y value of Pig 1. Show each step here. Then, take a picture and upload it into Step 8 of Desmos.

5.) Prove your bird hit the other pig: (In Step 12)

What color bird hit Pig 2? _____

Write the equation of the bird that hit Pig 2: _____

Now, plug Y from Pig 2 into the equation and solve for X using the Quadratic

Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$