Angry Birds Project

In this project you will create an Angry Bird level. You can construct the level using any number of pigs, wood, glass, balloons, etc. The level must be designed in such a way as it will take 2 Angry Birds to clear the level. You will use your understanding of quadratic expressions to calculate the trajectories of the birds as they hit the objects in the level.

You will be given two equations. Both equations should be graphed on the same coordinate plane. For each equation you must:

- ✓ Graph the parabola on graph paper. You will then glue your equation to the top left corner of the page.
- ✓ Find the launching point. You will then glue your bird on the launching point
- ✓ Find the landing point. You will then glue your pig on the landing point
- ✓ Find the maximum height the bird reaches during its flight and label it on your graph.

After you have completed the above for BOTH equations, decorate the rest of your graph paper to look like a level of angry birds. Include the slingshot the birds are being shot from. <u>Coloring does count!!!!</u>

DUE THURSDAY 2/27/2014

This project will be worth 30 points. The rubric is as follows:

_____Both equations glued to top left corner (2 points)

_____Birds glued correctly at launching points with coordinates labeled correctly. (5 points each)

_____Pigs glued correctly at landing points with coordinates labeled correctly. (5 points each)

_____Maximum height labeled correctly on graph (5 points)

_____Rest of graph colored and drawn to reflect Angry Birds level (3 points)