**Pre-AP Algebra 2 Inequality Project**

Inequalities Artwork

Due Date: September 30, 2014

\* You will receive one extra credit point if you turn in your project on September 26.

\*\*Every day the project is late, 1 point will be taken off. No projects will be accepted after October 6.

**Objective**

Create an original artwork using linear equations and a system of Inequalities

**Instructions**

* You are required to draw a picture made up of only lines and shaded regions. The picture should be drawn on a graph paper with the origin in the middle of your graph.
* You must write the equation or inequality for anything that you draw.
* You have to then determine the equations of the boundary lines and the system of inequalities that describe each region.
* Your project should comprise of at least 10 lines and 4 shaded regions. The 10 lines can not be part of any of the shaded regions. No more than half of these lines can be horizontal or vertical.
* The equations and shaded regions should be written on a separate piece of paper with the correct labels (numbers or letters). The lines on the rough draft should be similarly labeled. For the shaded regions, give the system of inequalities that form that region.
* You must turn in a rough draft that has all lines and shaded regions clearly labeled.
* You must also turn in all algebraic work on a separate piece of paper.
* Must turn in rubric with your project.

**Pre-AP Algebra 2 Artwork Project Grading Rubric**

**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Completion** | You have less than 10 lines and 4 shaded regions clearly shown on the project**1 Points** | You have 10 lines and 4 shaded regions but they are not clear**2 Points** | You have 10 lines and 4 shaded regions clearly shown on the project**3 Points** |
| **Accuracy** | *The Linear equations and inequalities are correctly written.* *You must have algebraic work for your lines and inequalities.***Up to 3 Points** |
| **Appearance** | The project is contains very little color and is not neat. It appears as if you spent very little time working on it-not creative. **1 Points** | . | The project is colorful and neat. It appears as if you spent some time working on it.**2 Points** | The Project is colorful, creative and neat. It appears as if you spent a lot of time thinking, creating and working on it. **3 Points** |
| **Rough Draft** | Your rough draft should include labels on lines and shaded regions.**Up to 3 Points** |
| **Final Grade****\_\_\_\_\_/ 12** | **Comments** |