Geometry

Line Design Project

Date Assigned: \_\_\_\_\_\_\_\_\_\_ Due Date: A-Day \_\_\_\_\_\_\_\_\_\_ Due Date: B-Day\_\_\_\_\_\_\_\_\_\_

*Grade:* One Test grade.

*Objectives:*

* To create a line design to develop the students’ awareness that straight line segments can produce the illusion of a curve.
* To experience the beauty of mathematics and to use geometric concepts and skills learned this year in geometry.

*General Instructions:*

* Have a plan and sketch a draft on a piece of paper.
* Draw the line design lightly with a pencil on poster board or card stock.
* When finished, go over with a pen. Be careful not to smudge the ink as you go over the line design.
* The size should be no smaller than 8.5x11 inches.
* The patterns provided are for guidelines. Do not trace them. You must draw them yourself using the tools listed.
* Try to include a variety of angle measures.
* Angles need to be measured precisely and lines evenly spaced.

* Be creative! Coloring and shading can add interest to a somewhat plain design. Add more angles to frame your design.
* In order to receive an A, the line design must be done in pen with a straight edge, have at least 6 angles, and be on the appropriate paper.
* *Neatness is a must!!!!!!*

Suggested Tools:

* Poster board or heavy weight card stock, in any color.
* Pencil, pen, straight edge, protractor, compass.