## Jack-O'-Lantern Geometry Application Project

**Objective:** In the spirit of Halloween, you will decorate your pumpkin using geometric 2-d shapes and other vocabulary words we learned in this unit (Unit 2: Triangles) in order to create a Jack-O'-Lantern. You may use pencil, pen, crayon, colored pencil, marker, etc... to complete this assignment. Your Jack-O'-Lantern does NOT have to be a face; however, it must be of an appropriate Halloween theme. A brainstorm on another piece of paper is recommended (this explains the second attached pumpkin). Please be neat! You should use a ruler or straight edge and if available, a protractor.

**Requirements:** You will draw at least one example of each vocabulary term on the graph paper pumpkin. You must label each geometric object on the as described below. Please include *at least*:

- 1 Right Triangle ( $\Delta ABC$ )
- 1 Isosceles Triangle (ΔDEF)
- 3 *Unique* Scalene Triangle ( $\Delta$ GHI,  $\Delta$ JKL,  $\Delta$ MNO)
- 3 Altitude on any triangle (Depends on the triangle you choose. Please write label on the rubric below)
- 3 Medians on the same triangle (Depends on the triangle you choose. Please write label on the rubric below)
- 1 Circumcenter of any triangle (Point P)
- 1 Incenter of any triangle (Point Q)
- 3 Other non-triangle shapes (Include their names on the rubric, no label necessary).

Object	Description (Properly Labeled)	Points (10 pts each*)
1 Right Triangle	ΔΑΒC	
1 Isosceles Triangle	ΔDEF	
3 unique Scalene Triangle	ΔGHI, ΔJKL, ΔMNO	
3 Altitude on any triangle		
3 Medians on the same triangle		
1 Circumcenter of any triangle	Point P	
1 Incenter of any triangle	Point Q	
3 Other non-triangle shapes		
*30 pts, 10 pts for each shape.		
	Total	

## Date Assigned: Friday, October 28, 2011 Date Due: Tuesday, November 1, 2011

## Rubric: