**Coordinate Axes and Folding Parallelograms Name**

Begin with a square sheet of paper.

1. To create the *valley folds, fold each of the following, unfolding again after each fold.* 
   1. *Down the center along the vertical line of symmetry.*
   2. *Diagonally, from vertex to vertex, along the two diagonal lines of symmetry.*
   3. *From each upper vertex to the center point O.*

A

C

D

E

F

G

H

B

K

O

J

L

1. What are the coordinates of each of the following points?

O A B

C D E

F G H

J K L

1. Place the following points on the grid above: Point M at (-2, 3) and Point N at (3, -2).

Next, take your square sheet of paper, and fold point A to the origin, and point C to the origin, making the shape below.



Next, fold the figure in half, along the center line, producing the trapezoid pictured below.



Next, fold the figure along the longer fold line, resulting in folding the larger triangle up so point F meets D & H. This should produce a parallelogram, as shown below.

