PROCEDURE

1. Using a ruler, draw on a sheet of paper one horizontal and one vertical line to divide the paper into four equal quadrants. Label the lines near the edges north, south, east, and west.

2. Draw a small circular or oval shape, the peak of your mountain, in the center of the map where the lines intersect.

3. Draw 6-8 contour lines surrounding your peak, making sure each line meets where you started drawing. Draw different shapes for each line, with some contour intervals coming close and some far apart, making sure not to cross lines. Create features such as a steep areas, ridges, or flatter glacial valleys.

4. Trace a copy of, or photocopy, your topographic map.

5. Draw quadrant lines, just as you did in step 1, on a sheet of tagboard or posterboard and set aside.

6. Keeping your original topography map, cut out the largest contour of the copy.

7. Select a piece of corrugated cardboard to fit that shape. Draw quadrant lines on it as in step 1.

8. Match up the lines of your contour shape and the lines on your cardboard.

9. Carefully trace the shape onto the cardboard. Cut the cardboard so that it is the same shape. Glue the cardboard shape onto the sheet of tagboard, carefully matching up the lines.

10. With the copied paper again, repeat steps 7, 8, and 9 with the second largest shape: cut, draw quadrant lines, trace, cut, and glue. Continue with each contour shape, being careful to line up the north, south, east, and west lines perfectly. You will stack several cardboard pieces like layers of a cake, each smaller than the one before it. Note: You can glue small scraps of cardboard between each contour shape to boost your mountain’s height.

11. Write the name of your mountain at the base, and place it on a display table.