GEOMETRY ACTIVITIES

1. Greek geometry allows construction of geometric figures using only a straight edge and a compass. Using these two tools, make these constructions:

   a. a line that is perpendicular to another line
   b. two parallel lines
   c. bisect a line
   d. bisect an angle

2. Make a list of the important geometric shapes in two dimensions. Put these lists in order of importance to you. Repeat for shapes of three dimensions.

3. Build an animal using all the pieces in a set of tangrams.

4. Exploring toothpicks (or sticks): What kinds of shapes can you make with four (or five or six) toothpicks?

5. Make three different shapes on the geoboard that are symmetric with respect to each side of the geoboard (ie, that have an orbit of 4).

6. Explore these virtual manipulatives:

   http://illuminations.nctm.org

   -- Patch Tool
   -- Shape Cutter
   -- Shape Tool

   http://nlvm.usu.edu/

   > PreK-2 Geometry
   -- Tangrams

7. Color this map of the US west of the Mississippi. Each state must have a different color, no states with the same color can touch, and you have a maximum of four colors available.