HON 179 SketchUp Take Home Quiz

Overview:

Complete the 3-D puzzle design described below and submit your SketchUp model to moodle no later than the start of class on Friday September 17. You may discuss this problem verbally with your classmates, but the model that you submit **must be entirely your own work.**

Design Specifications:

1. The puzzle must be created from 27, 1" cubes.
2. The puzzle system must contain exactly five puzzle pieces.
3. Each individual puzzle piece must consist of at least three, but no more than six cubes that are permanently attached to each other.
4. No two puzzle pieces can be the same.
5. The five puzzle pieces must assemble to form a 3" cube.
6. Some puzzle parts should interlock.
7. Your model should show each of the five pieces in an "exploded view" of the puzzle.
8. Each of the 5 pieces should be a different color.

Suggested Procedure:

This is just a suggestion; you are free to choose your own procedure for solving this problem.

1. Create a 1" cube and save it as a component
2. Build a 3" cube from 27 instances of the 1" component cube.
3. Select and move different groupings of 1" cubes away from the 3" cube assembly to form the puzzle pieces.