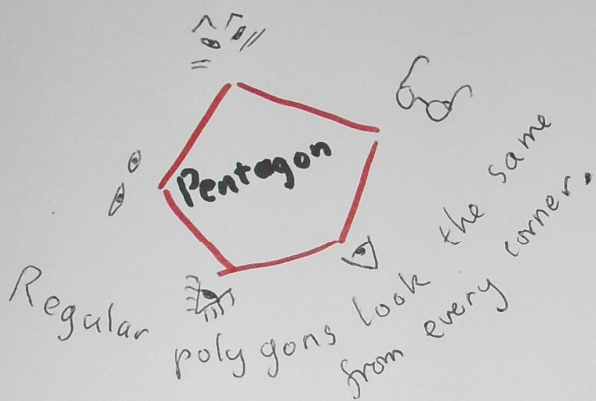
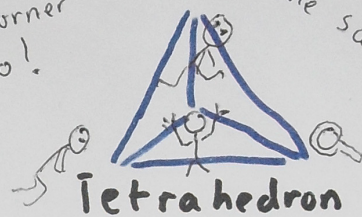


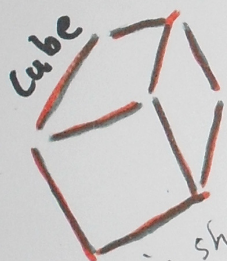
The soccer ball and other Archimedean solids



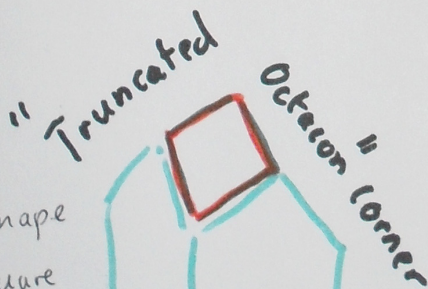
Archimedean solids are 3D shapes made from regular polygons. They look the same from every corner too!



- the smallest. 3 triangles meet at each corner.

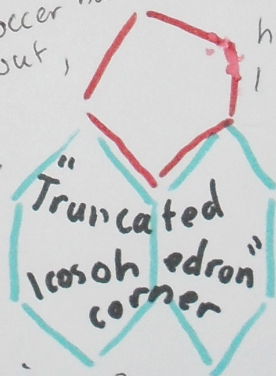


- the dice shape. 3 squares meet at each corner.



This shape has 1 square and 2 hexagons at each corner. It can be completed with 5 more squares and 6 more hexagons. Like cubes, these fit together if you make several!

The soccer ball shape, before it is rounded out, has 2 hexagons meeting each corner.



It contains 12 pentagons and 20 hexagons when finished.

Other Archimedean solids might make quite good balls, but this is the best. Probably?

For more easy-to-read geometry, try "Platonic & Archimedean solids," by David Sutton^x