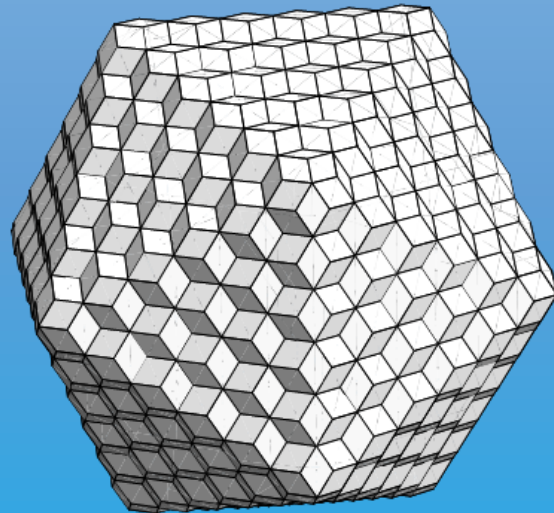


Making a rhombic 1080-hedron

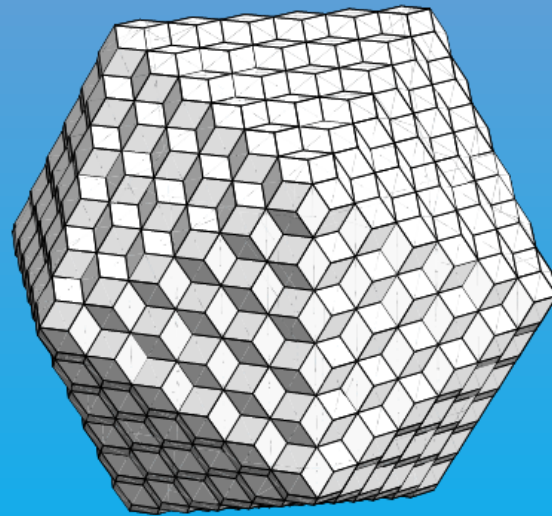


Izidor Hafner, PhD
Andreja Klančar, PhD



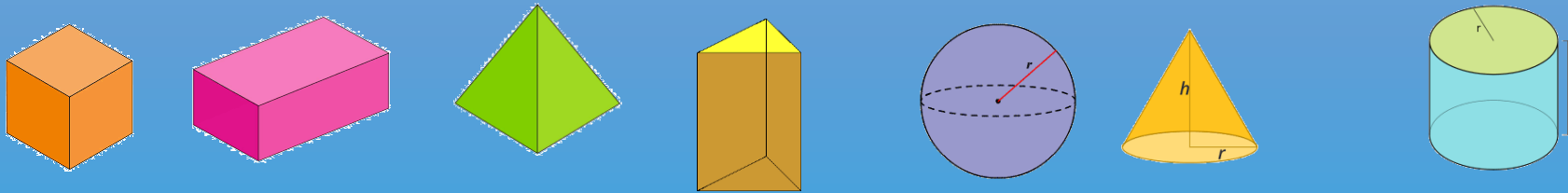
Making a rhombic 1080-hedron

- 1080 golden rhombuses as faces
- the symmetry of an icosahedron



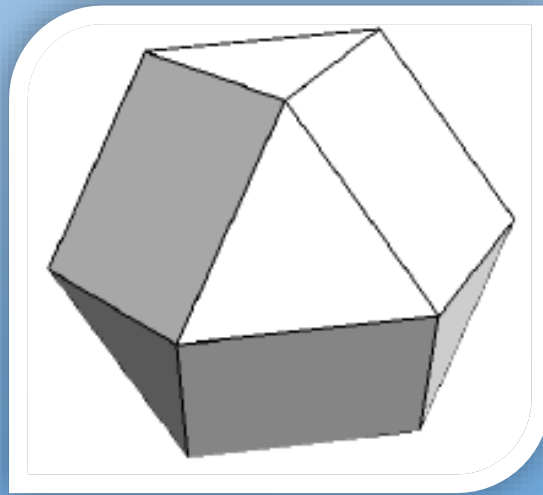
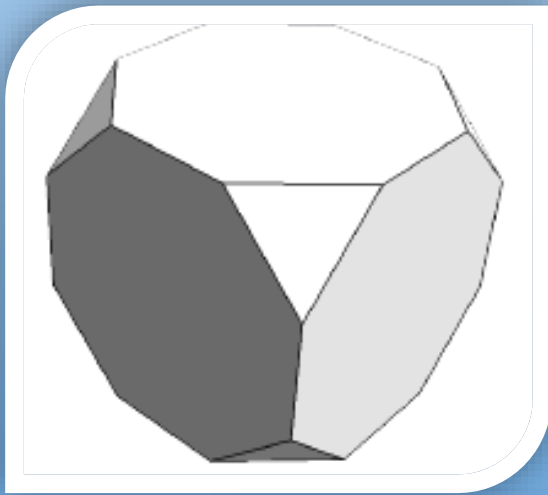
Geometrical solids in Elementary school curriculum

- basic concepts in geometry
- developing spatial sense, visualization
- solids in elementary school mathematics:
- cube, cuboid, pyramid, prism, sphere, cone and cylinder



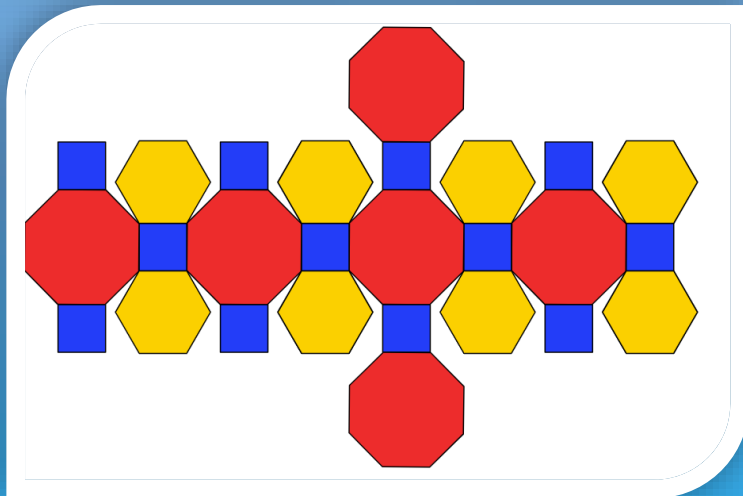
- other Platonic and Archimedean solids students meet in challenges for national competition in recreational mathematics





Paper models of polyhedra are attractive but difficult to make.

That is why in schools we prefer to make polyhedra from plastic parts (Polydron, Zometool)



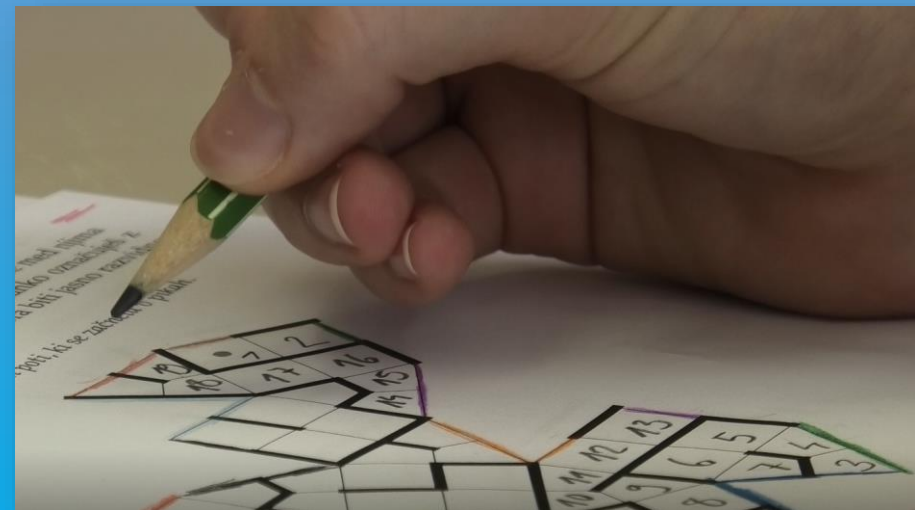
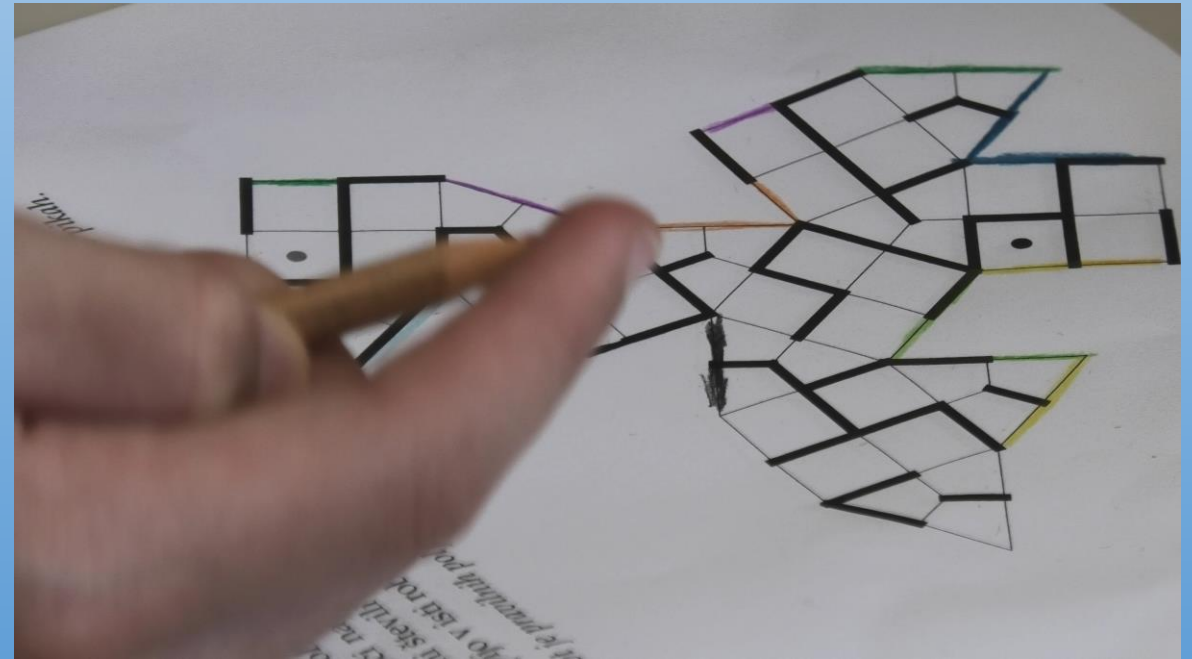
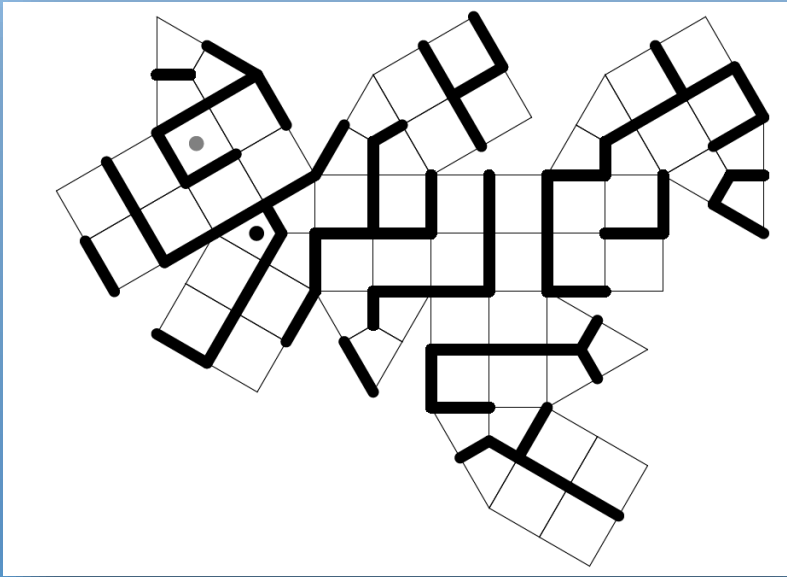
- faces
- vertices
- edges



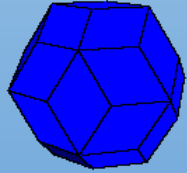
POLYDRON



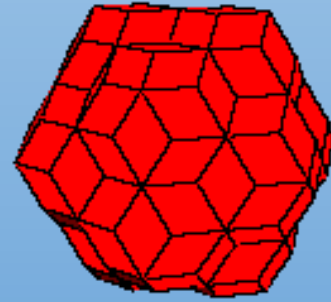
Labyrinths on Polyhedra



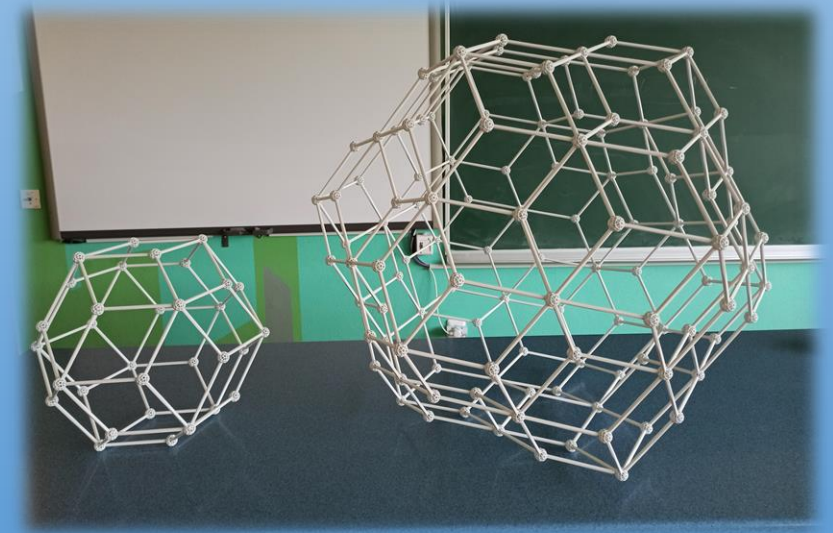
Preparation



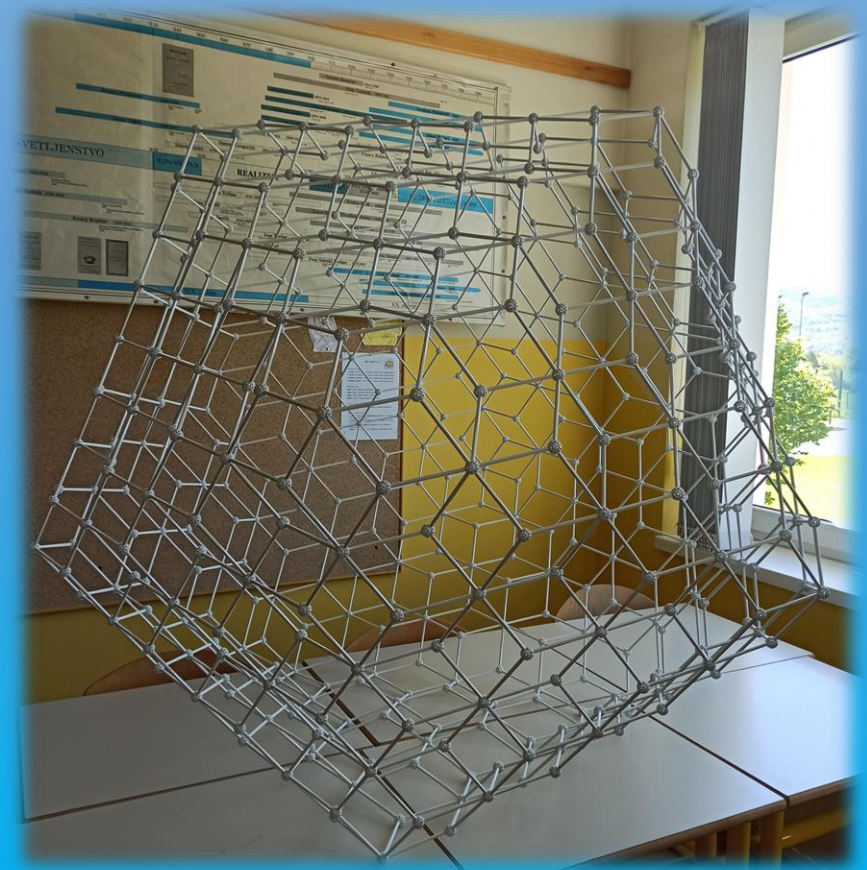
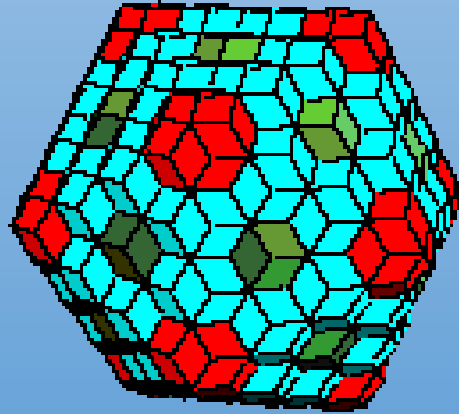
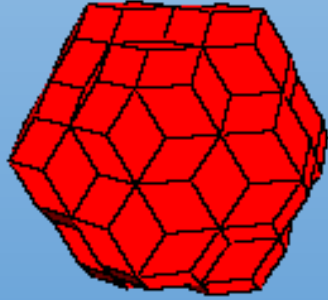
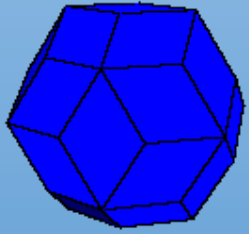
triacontahedron



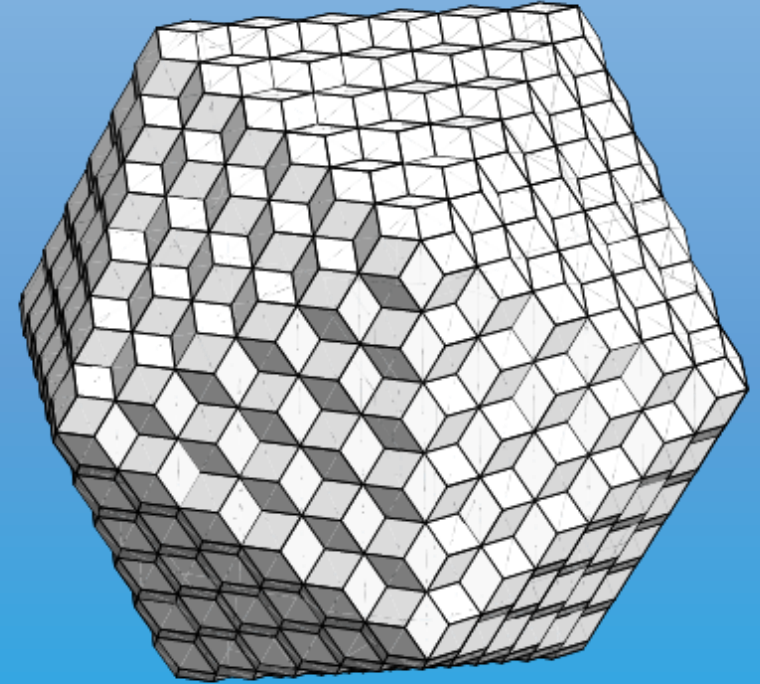
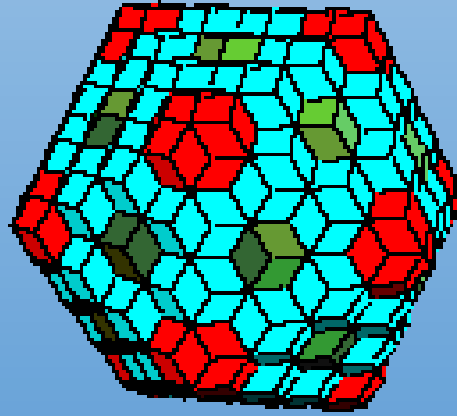
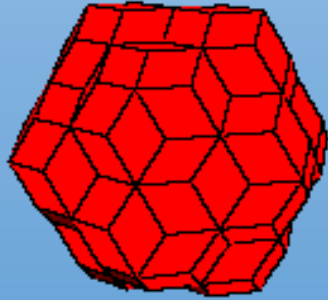
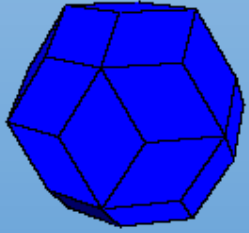
double triacontahedron



Preparation



Preparation



rhombic 1080-hedron

