

Rhombicosidodecahedron



Math Club

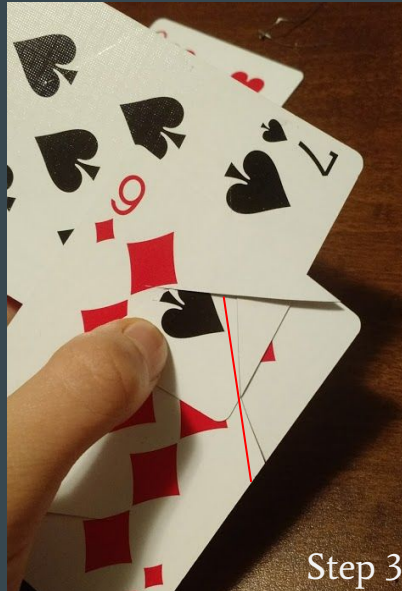


Instructions

1. Put the template on top of a card and cut the lines X 30
2. Take 2 cards. Slide a short slit into a long one (you should always be sliding slits of opposite length together, never ones that are the same)
3. Slide the cards until you form this line
4. Slide a long slit into the line
5. Flip the cards to the back and slide the corner of the new card in the slit
6. Wiggle the cards until this shape forms
7. Build on top of this shape



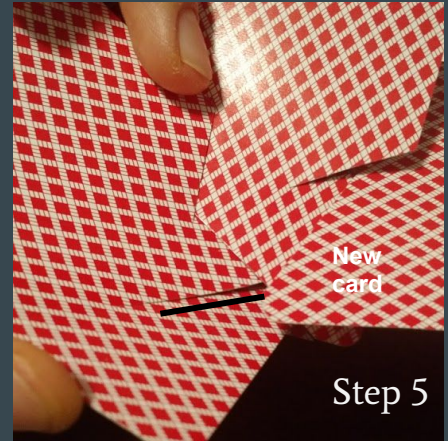
Step 2



Step 3



Step 4



New card

Step 5



Step 6



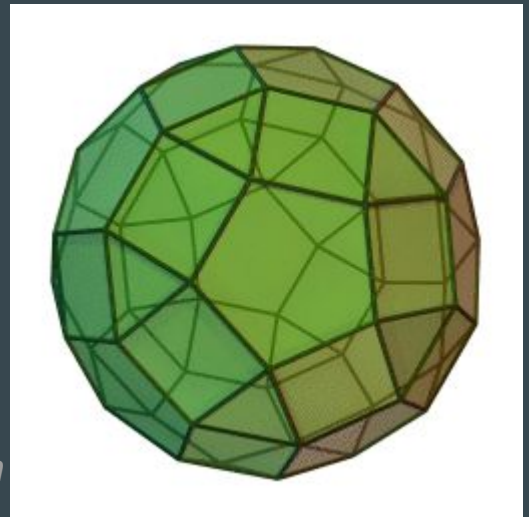
The Math Behind It

Rhombicosidodecahedron

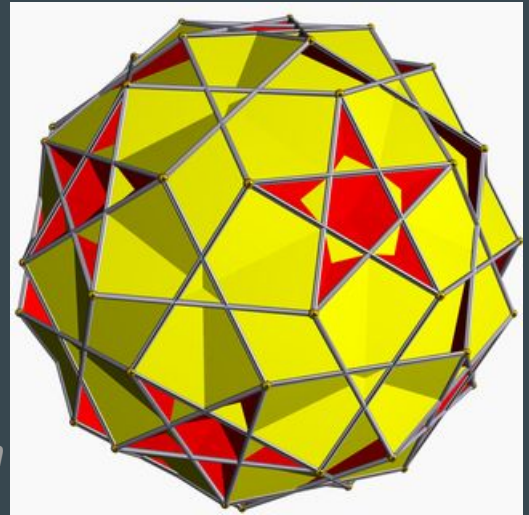
- 20 triangular faces
- 30 square faces
- 12 pentagonal faces
- 60 vertices
- 120 edges

Rhombicosahedron

- 50 faces
- 120 edges
- 60 vertices
- Non-convex (created by the cards)



Via wikipedia.com



Via wikipedia.com