

# Geometiles™

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Building Ideas



TM

[www.geometiles.com](http://www.geometiles.com)

Patent Pending

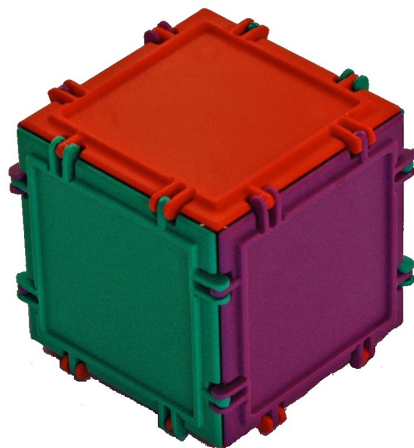
Geometiles™ is a product of



## Welcome to Geometiles™!

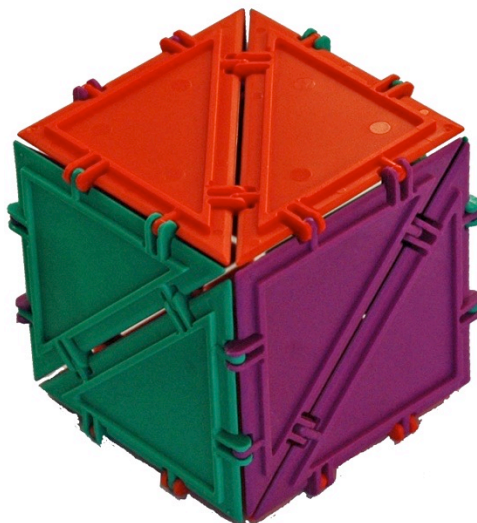
Here are some ideas of what you can build with your set. You can use them as a springboard for your imagination! Hints and instructions for making selected objects are in the back of this booklet.

### Platonic Solids



CUBE

6 squares



CUBE

12 isosceles triangles



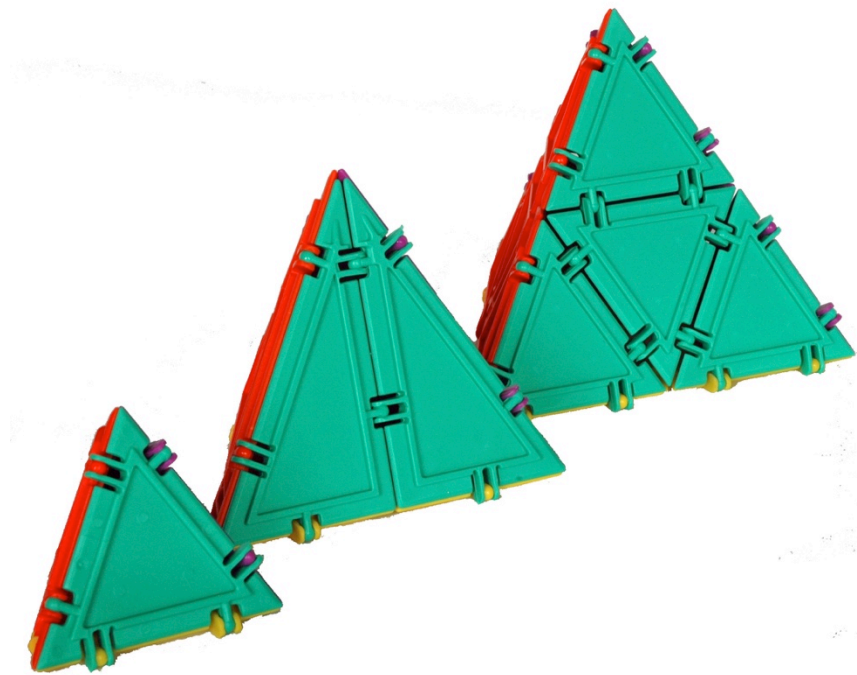
OCTAHEDRON

8 equilateral triangles



OCTAHEDRON

16 scalene triangles



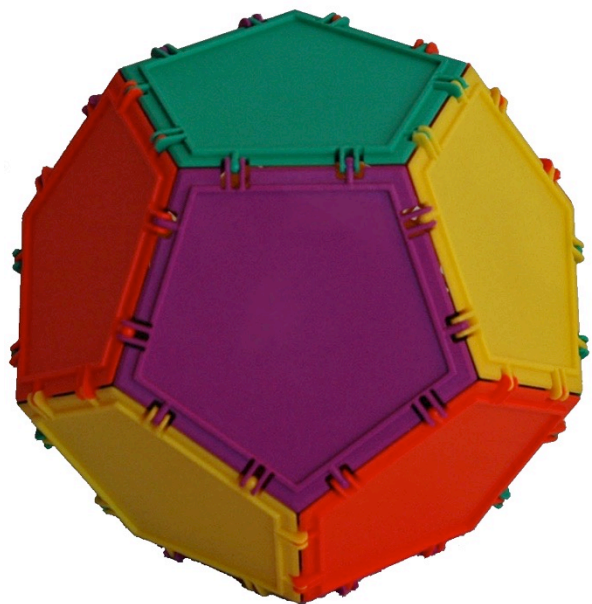
## REGULAR TETRAHEDRA

4 equilateral triangles; 8 scalene triangles; 16 equilateral triangles



## ICOSAHEDRON

20 equilateral triangles

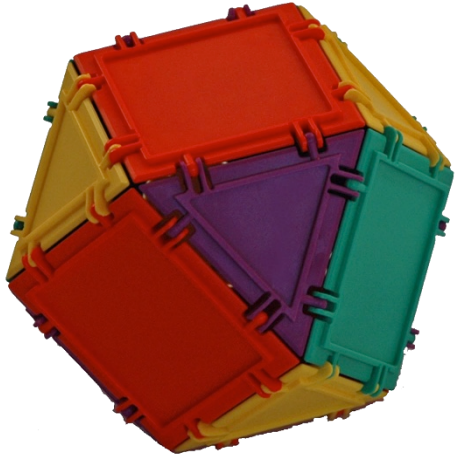


## DODECAHEDRON

12 pentagons



## Selected Archimedean Solids



CUBOCTAHEDRON

6 squares, 8 equilateral triangles



ICOSIDODECAHEDRON

20 equilateral triangles, 12 pentagons

## Miscellaneous Solids



DOUBLE TETRAHEDRON

12 scalene triangles



RHOMBIC PRISM

8 scalene triangles; 4 rectangles





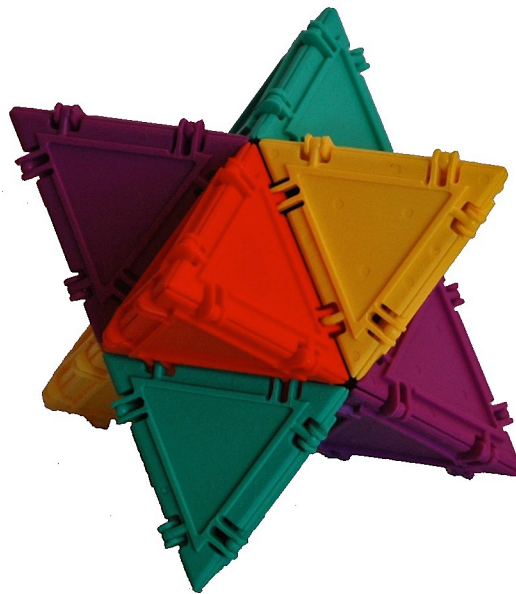
PENTAGONAL ANTIPRISM

10 equilateral triangles, 2 pentagons.



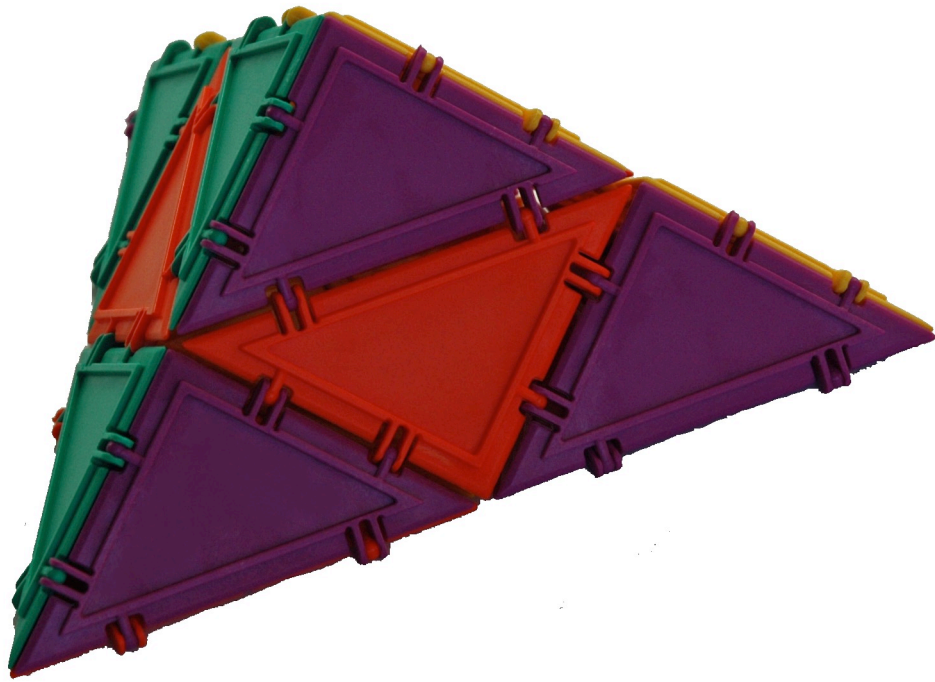
HEXAGONAL ANTIPRISM

24 equilateral triangles



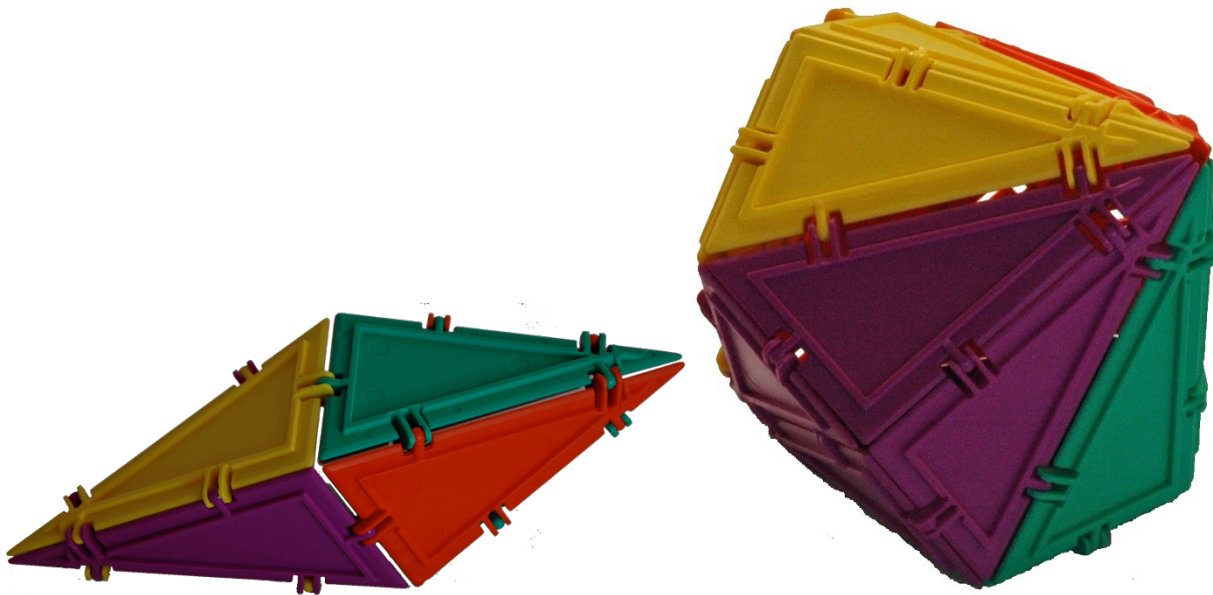
STELLA OCTANGULA, OR STELLATED OCTAHEDRON

24 equilateral triangles



## TRI RECTANGULAR TETRAHEDRON

12 isosceles triangles, 8 scalene triangles



## SCALENOHEDRON

8 scalene triangles

## TRAPEZOHEDRON

16 scalene triangles

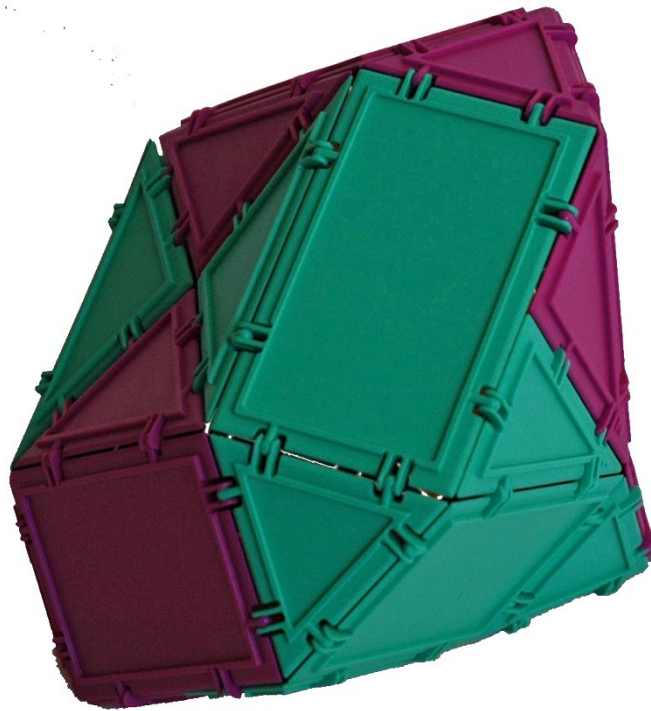
## Playful shapes



FLOWER

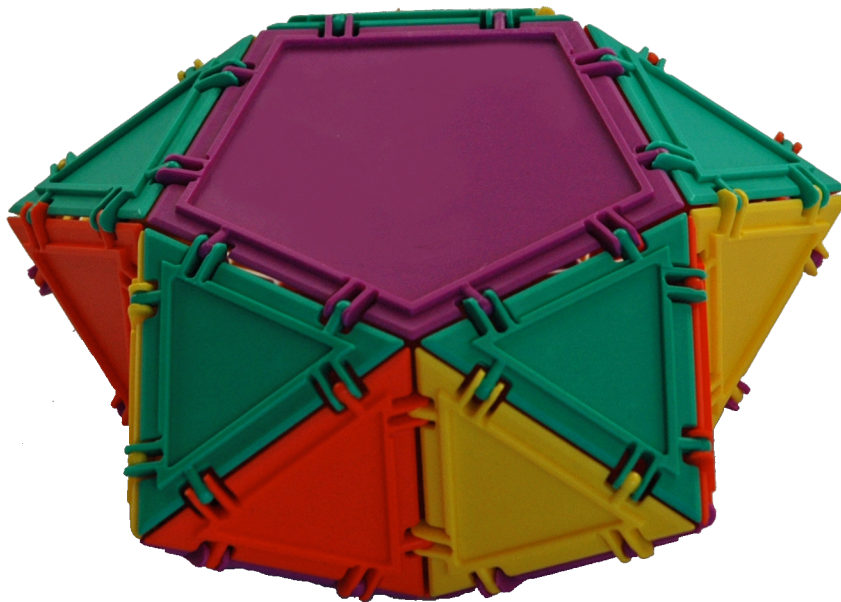
12 pentagons, 10 squares, 9 rectangles, 6 scalene triangles





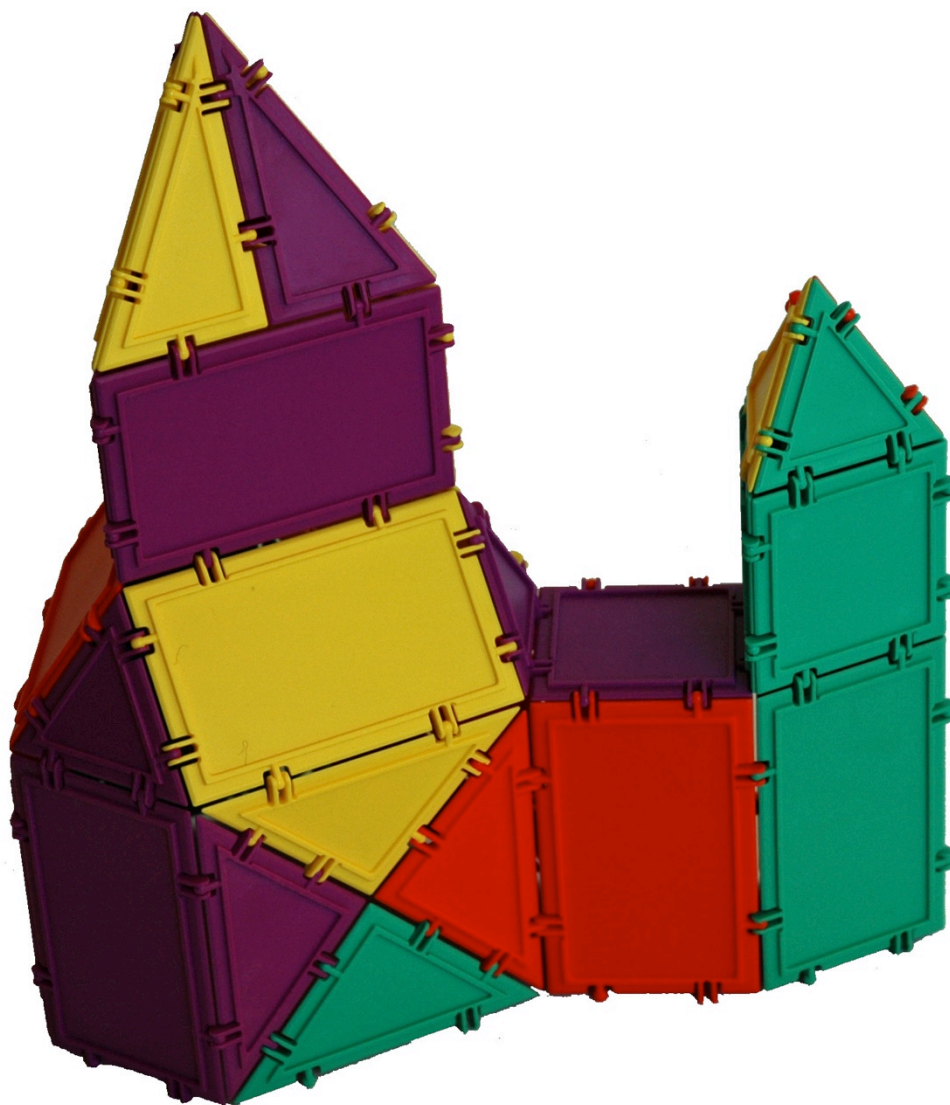
## GEMSTONE

8 equilateral triangles, 8 rectangles, 4 isosceles triangles, 8 scalene triangles



## STAR

20 equilateral triangles, 2 pentagons



## CASTLE

6 equilateral triangles, 12 rectangles, 12 isosceles triangles, 6 scalene triangles, 4 squares



## CUBE WITH WINDOWS

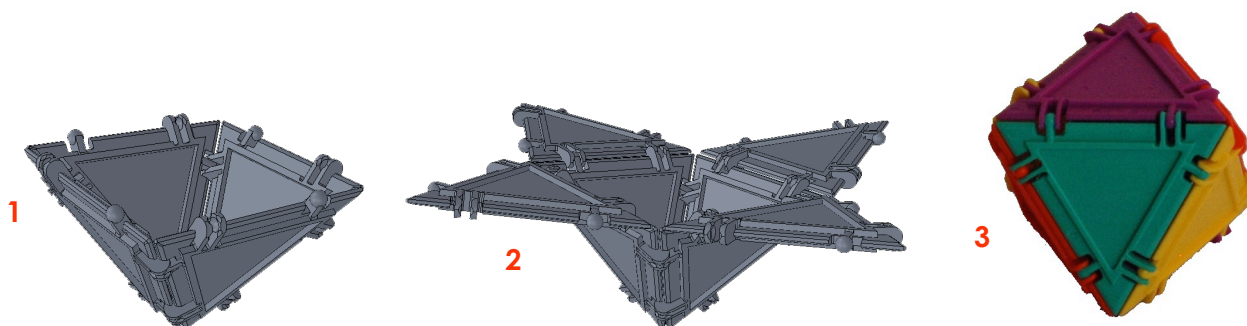
A.K.A. TISSUE BOX

24 scalene triangles

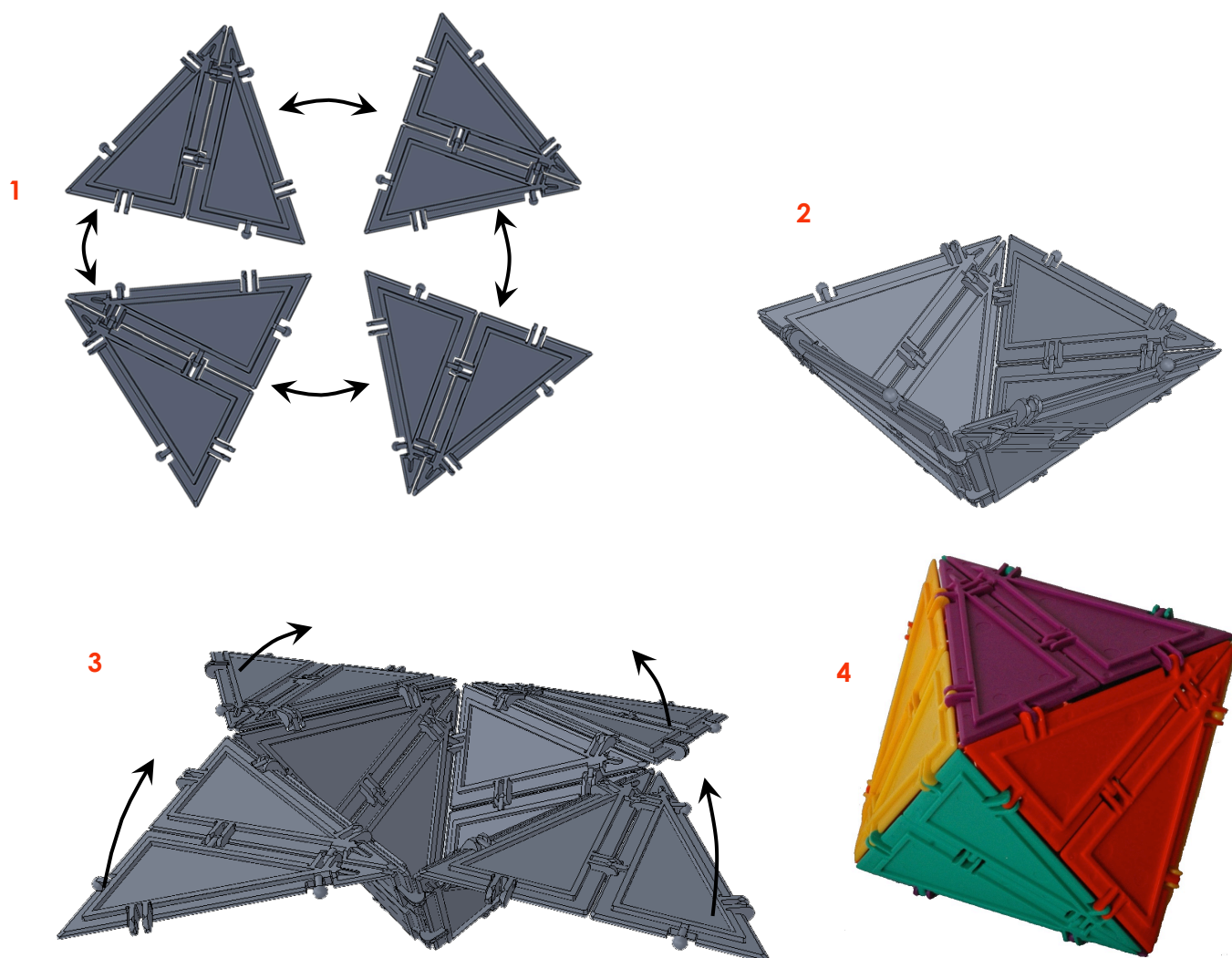


## Instructions and hints

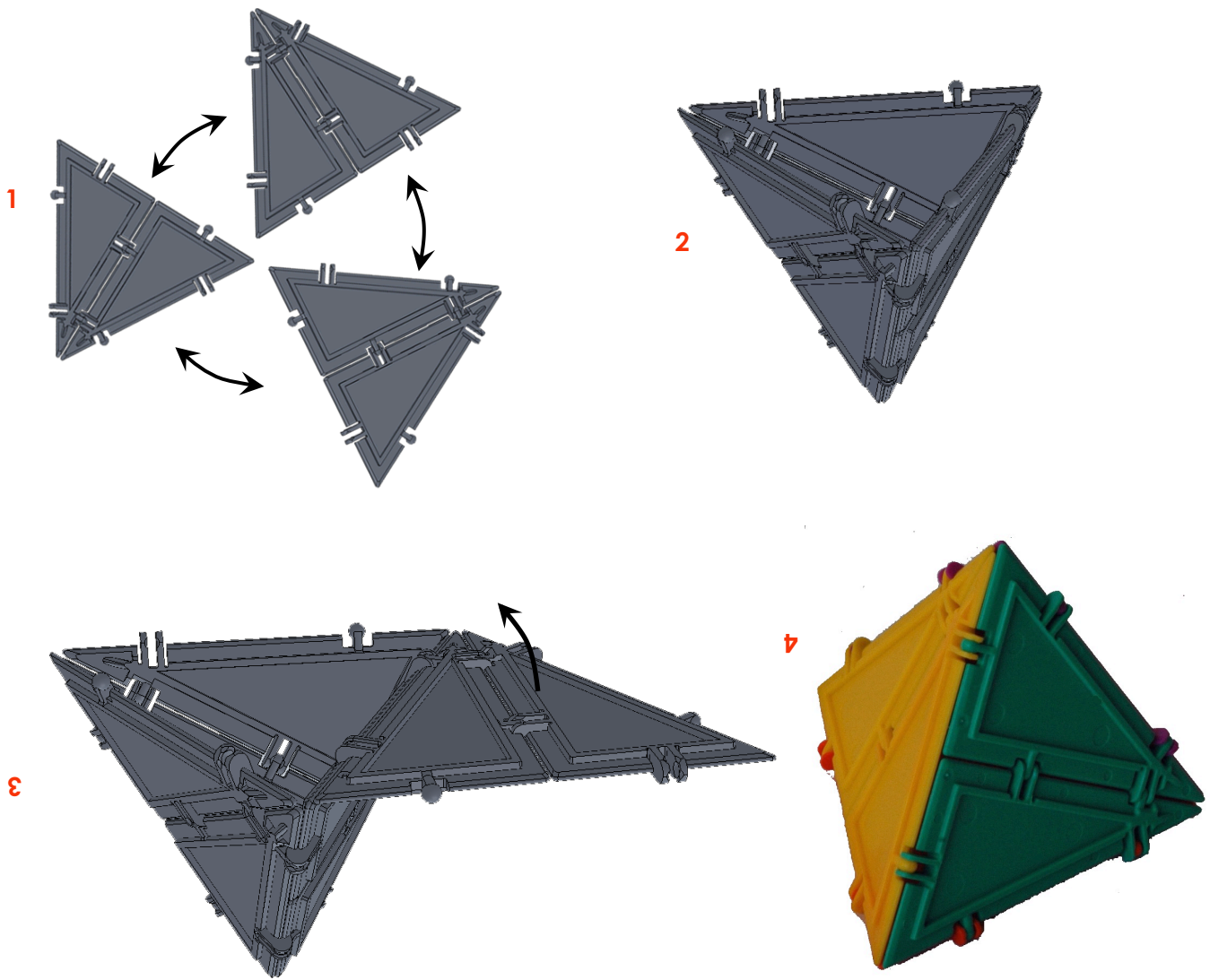
### Small Octahedron



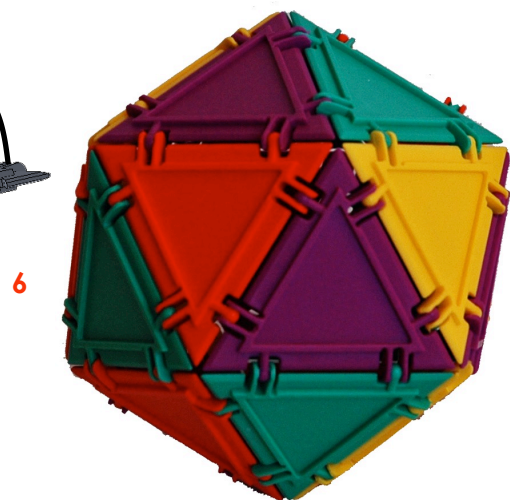
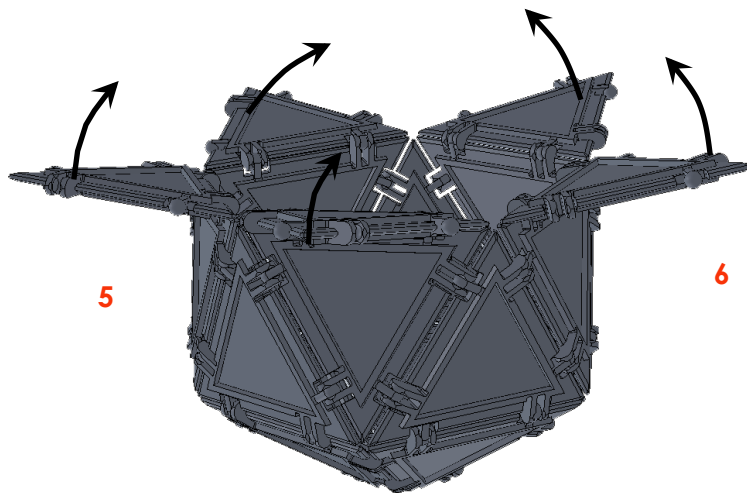
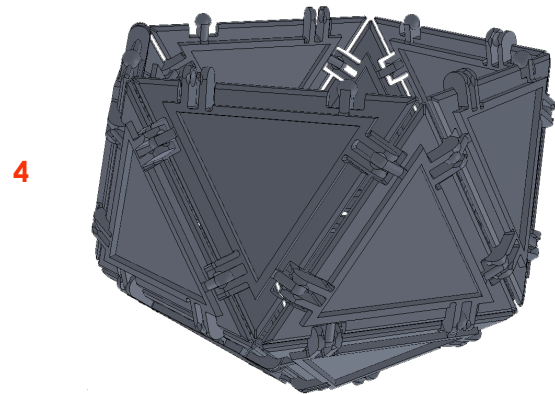
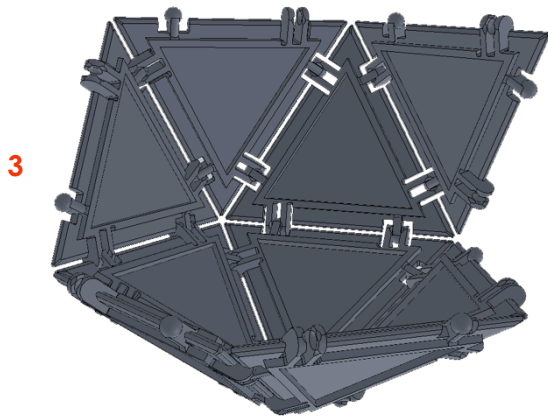
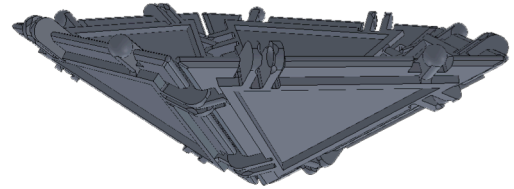
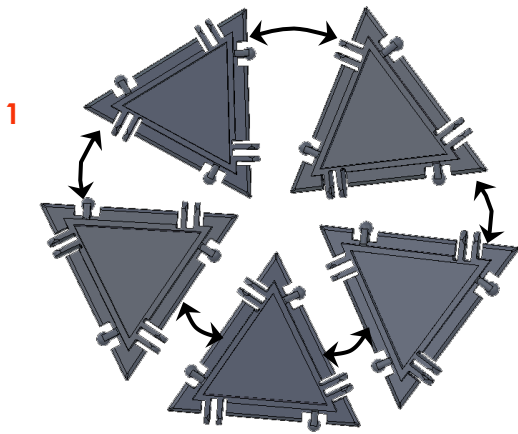
### Large Octahedron



## Medium Sized Tetrahedron

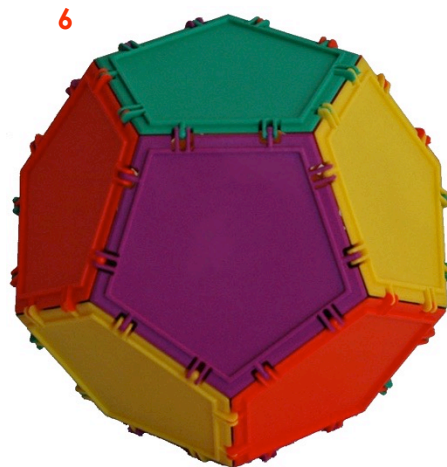
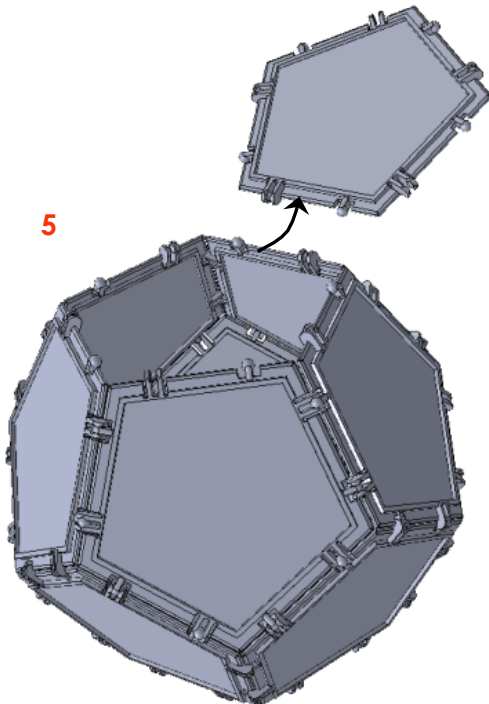
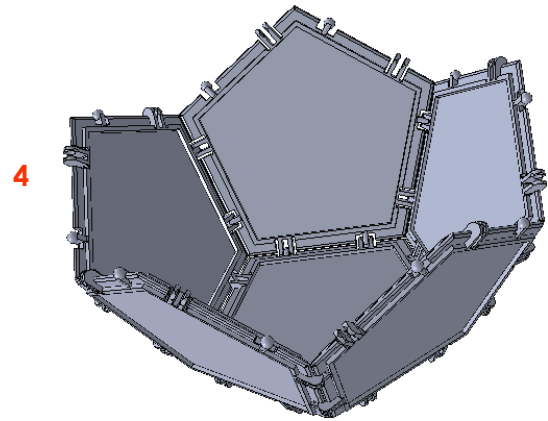
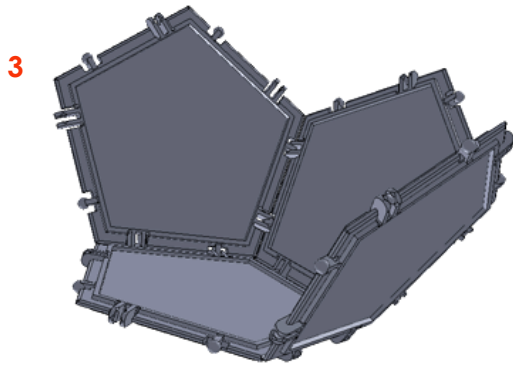
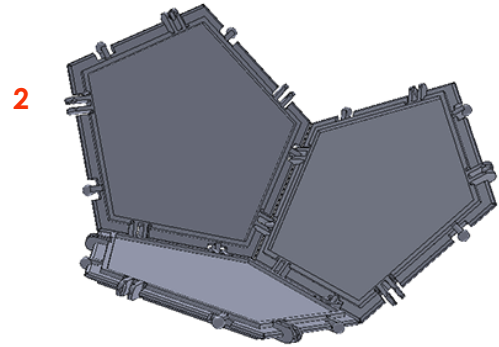
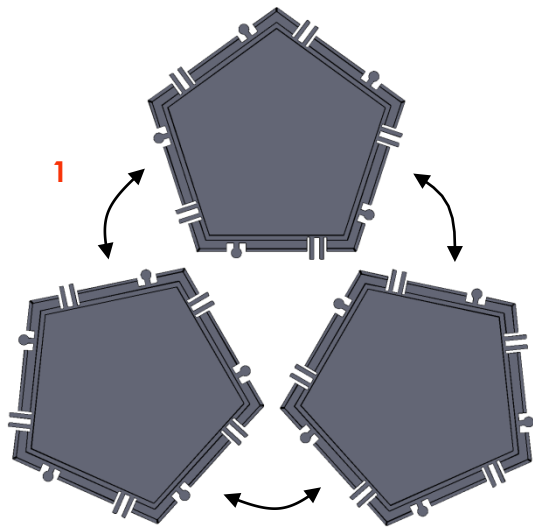


## Icosahedron

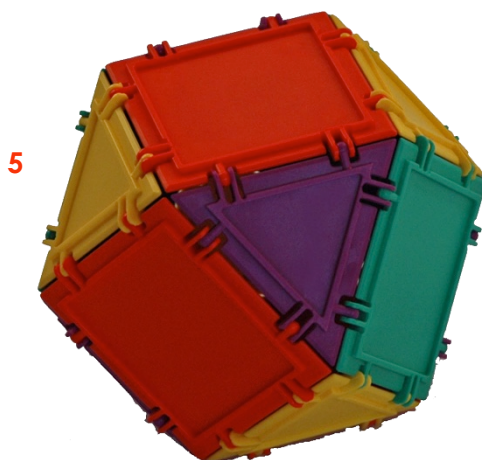
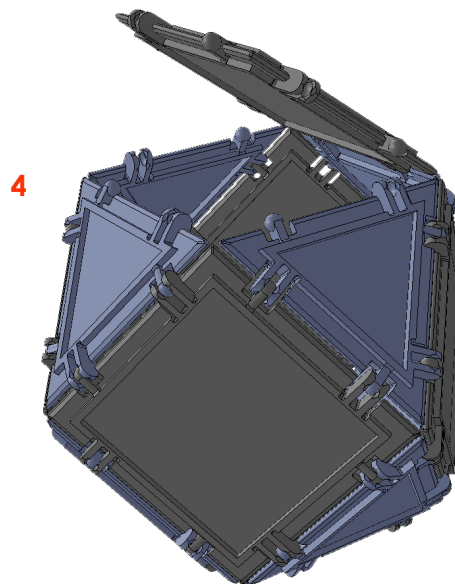
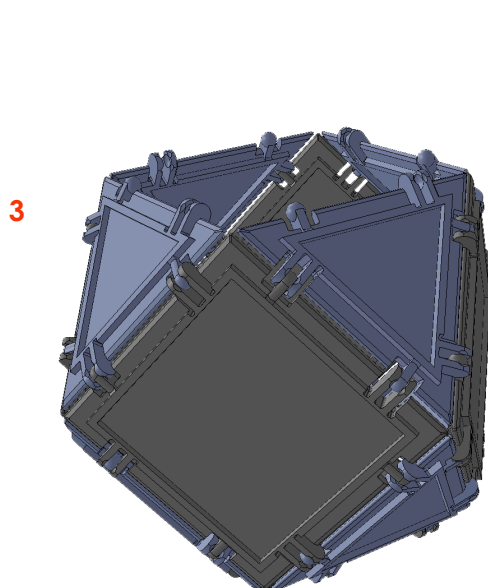
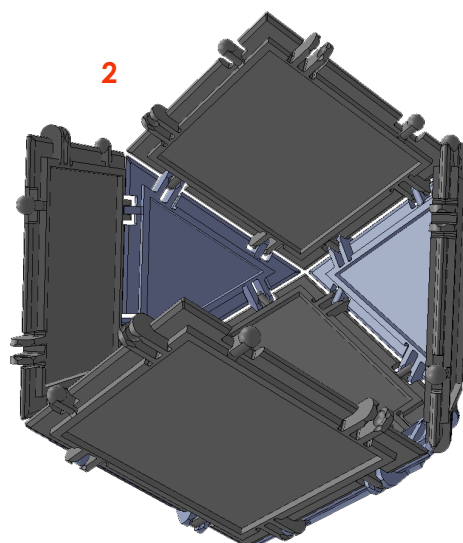
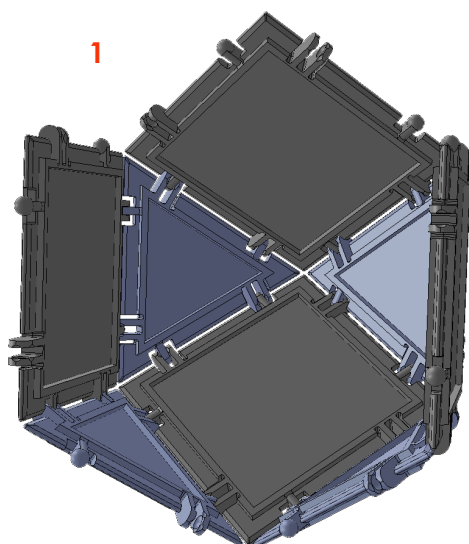




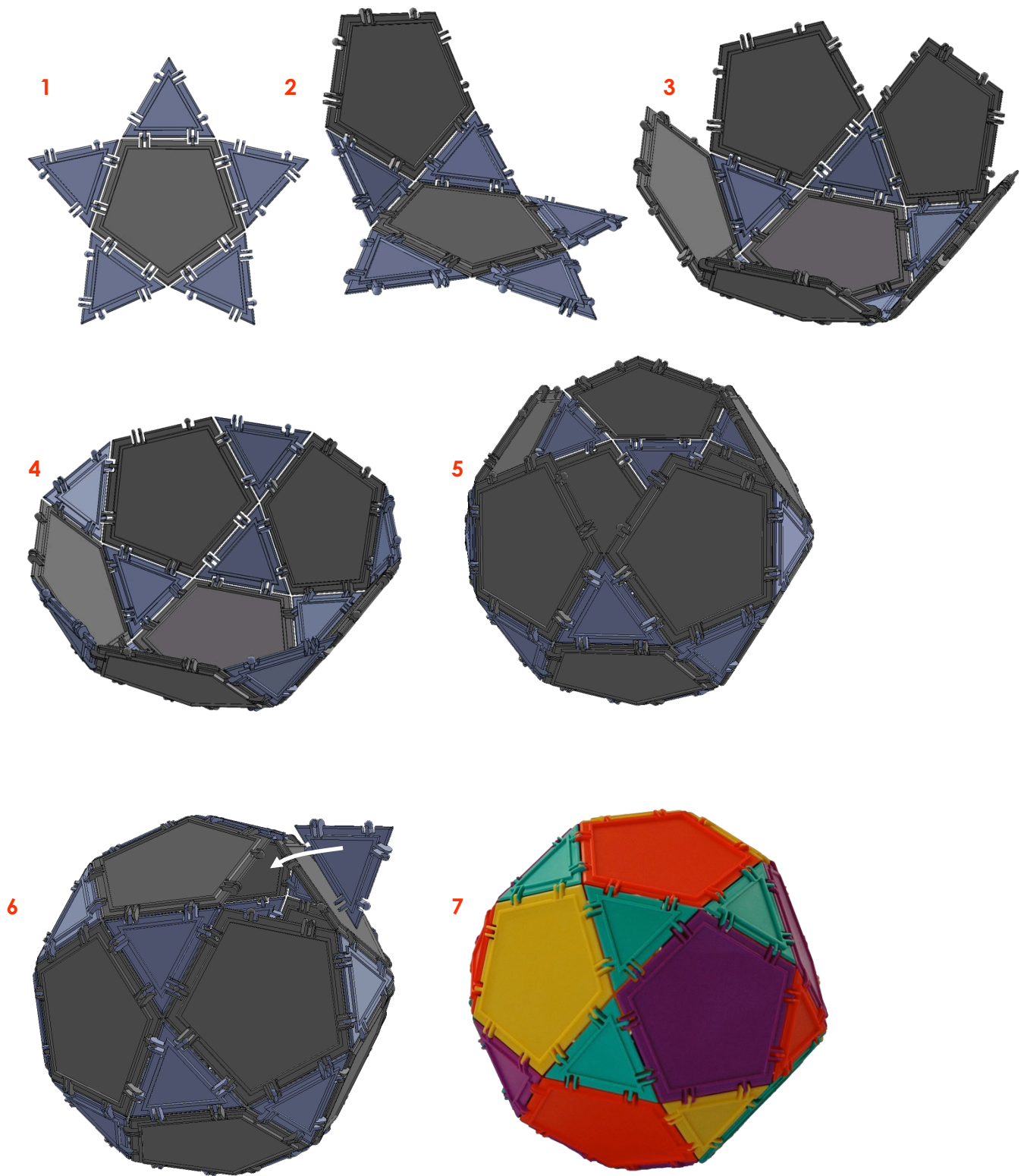
## Dodecahedron



## Cuboctahedron



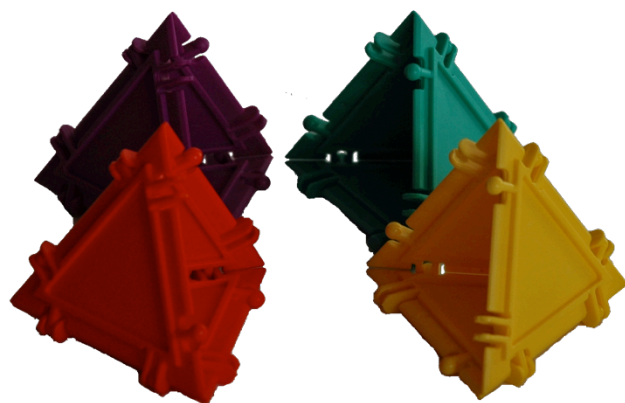
## Icosidodecahedron





## Stella Octangula

1



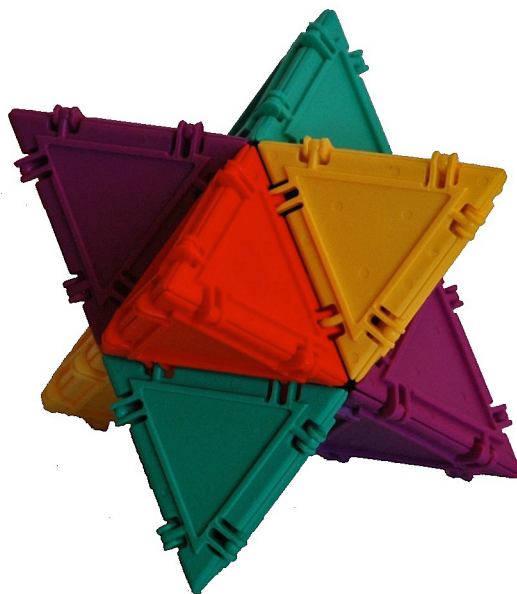
X 2

2

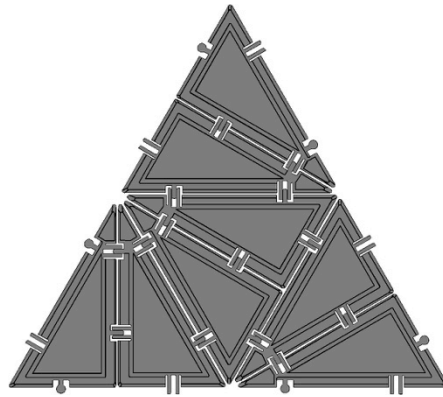


X 2

3

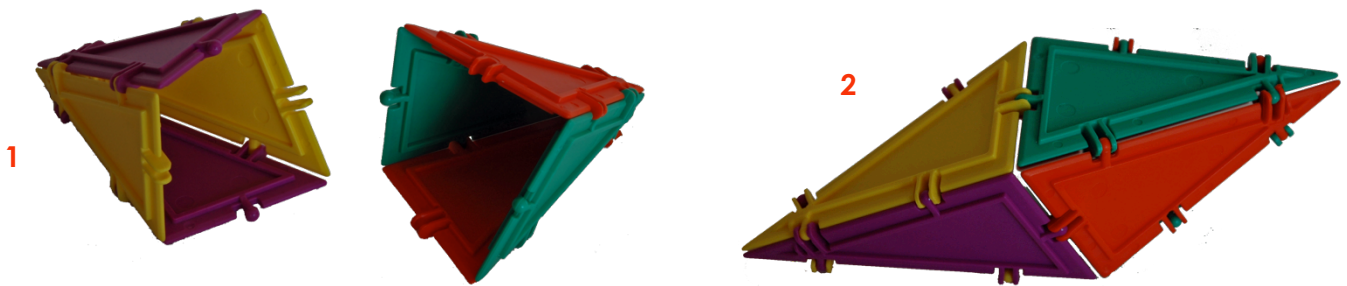


## Trirectangular Tetrahedron

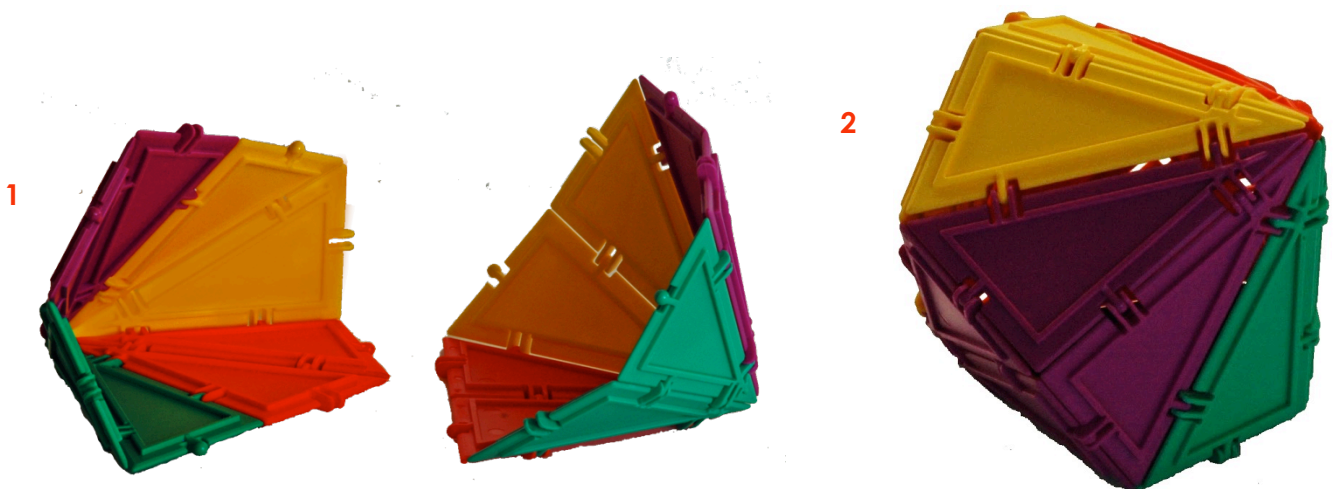


Bottom face

## Scalenohedron

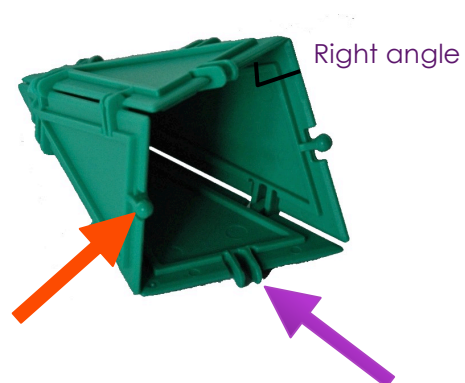


## Trapezohedron

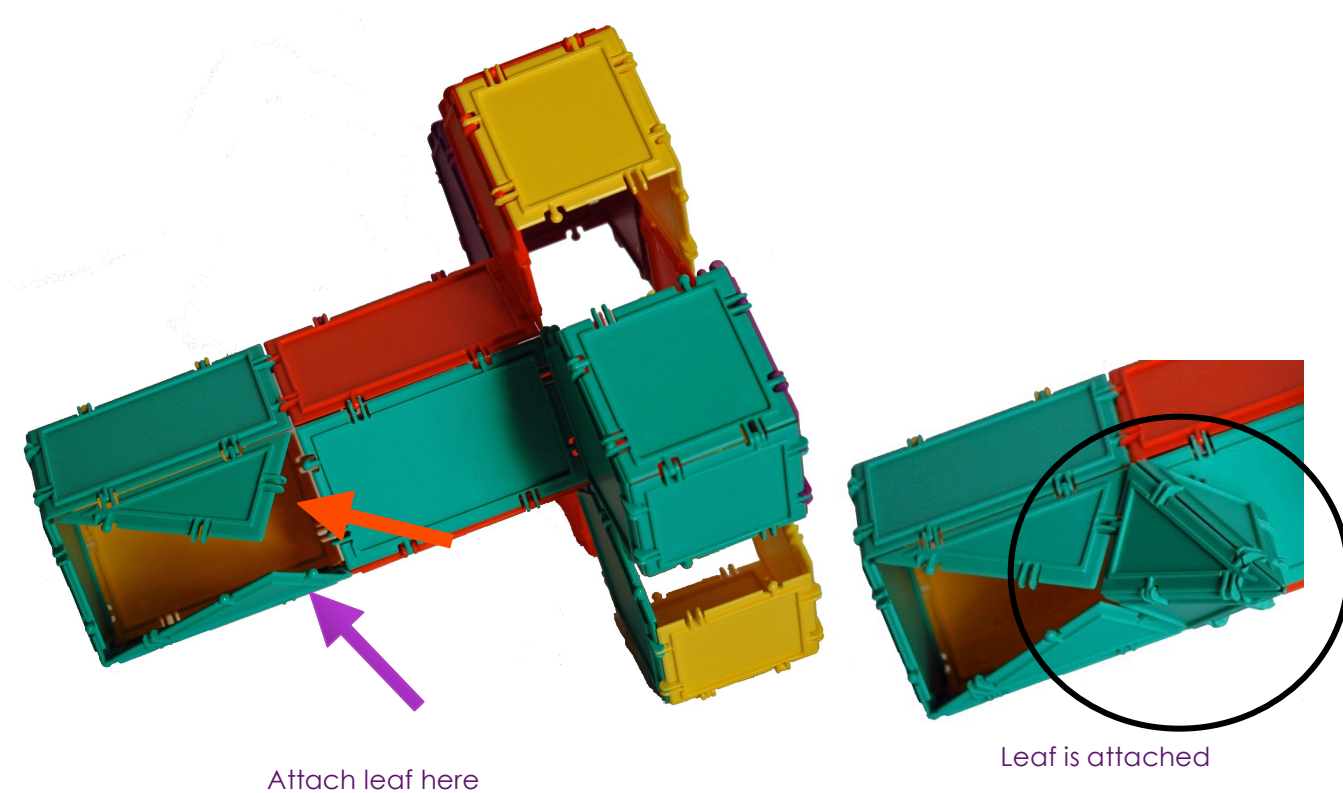


## Flower

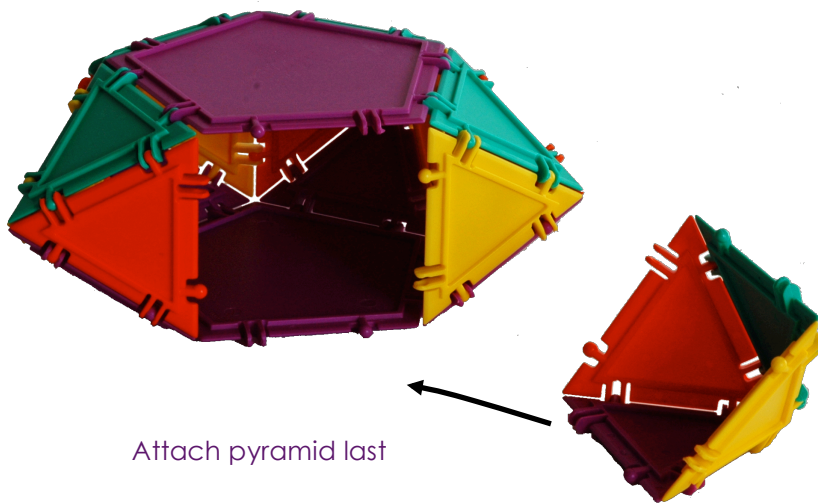
**Hint for making leaf for flower:** first make the leaf using 4 scalene triangles.



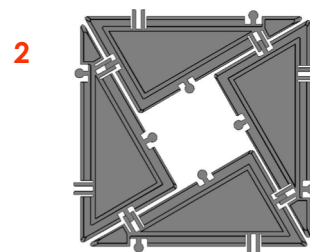
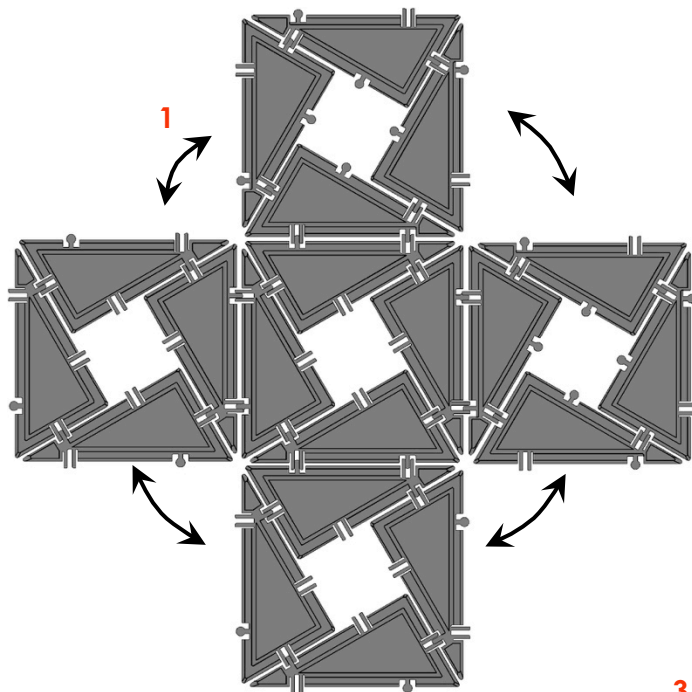
Then make the flower and attach leaf as shown with arrows:



## Star



## Cube with Windows



cover with lid

