

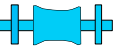

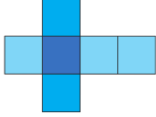




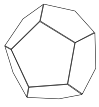

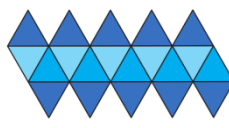





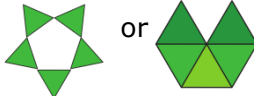


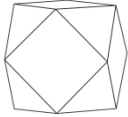
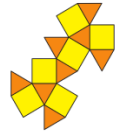
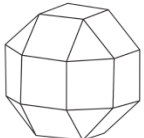
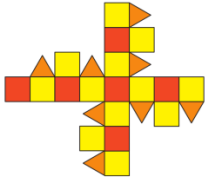

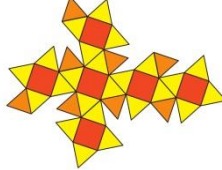
Solid Geometry Object

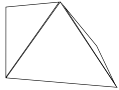
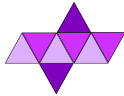
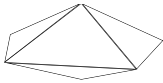
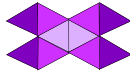
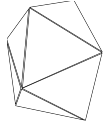
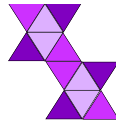
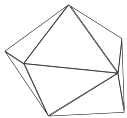
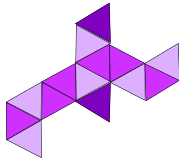
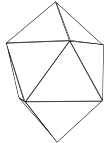
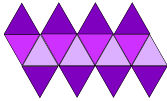
Instruction Manual

Fundamental Shapes



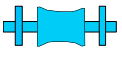


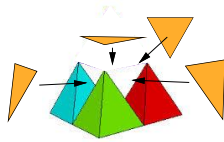



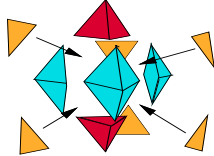


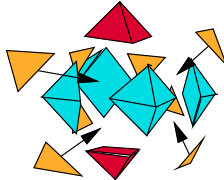
Type	Definition/Figure	2D Layout			
Platonic Solids	Edges all same length; same number edges at every vertex; all faces same shape and size.				
Cube				6	12
Tetrahedron			4		6
Octahedron			8		12
Dodecahedron		Cannot be made with one 74 piece Swivel-Snaps kit.			
Icosahedron			20		30


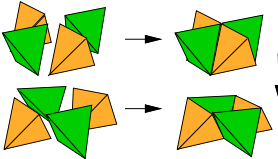
Pyramids	Triangular sides. Polygon base.				
Triangle Base Pyramid	For equilateral triangles, this is a tetrahedron.	See Platonic solids above			
Equilateral Square Base Pyramid			3	1	8
Pentagonal Base Pyramid	 (base not included)	 or	5		5

Archimedean Solids	Same as Platonic solids except two different face types.				
Cuboctahedron			8	6	24
Rhombicuboctahedron	 Two kits needed		8	18	48
Snub hexahedron	 Two kits needed		32	6	60
Others	Other Archimedean solids with pentagon faces cannot be made with the 74 piece Swivel-Snaps® kit.				

Convex Deltahedra	All faces equilateral triangles; no adjacent faces in same plane.				
Regular Deltahedra	tetrahedron, octahedron, icosahedron	These are also Platonic solids. See above.			
Johnson Deltahedra	Five shown below	These are not Platonic solids.			
Triangular Bipyramid			6		9
Pentagonal Bipyramid			10		15
Snub Disphenoid			12		18
Triaugmented Triangular Prism			14		21
Gyroelongated Square Bipyramid			16		24

Composite Shapes

Type	Definition/Figure	3D Layout			
Coplanar Convex Deltahedra	All faces equilateral triangles; two or more adjacent faces in the same plane. A few of an infinite number shown below. Combine fundamental shape convex deltahedra (see above)				
Triangular Frustrum		3 tetrahedrons + 4  	16		18
Tetrahedron Augmentation		Add a tetrahedron to the top of a triangular frustrum	19		24
Triangular Bipyramid Augmentation	 Two kits needed	2 tetrahedrons + 3 square base pyramids without squares + 6  	26		36
Tetrakis Cuboctahedron Augmentation	 Two kits needed	6 square based pyramids + 8  	32	6	48

<p>Non-convex Deltahedra</p>	<p>All faces equilateral triangles. One example of an infinite number shown below.</p>				
<p>Stella Octangula</p>	 <p>Two kits needed</p>	<p>8 tetrahedrons (without bottoms)</p> 	<p>24</p>		<p>48</p>

Other Solid Geometry Objects

Try making some of the other infinite number of coplanar convex, and non-convex, deltahedra mentioned above.

Try searching online for other solid geometry objects you can make with Swivel-Snaps®.