

# ORIGINAL POLYDRON<sup>®</sup>

Exploring Original Polydron Sphera



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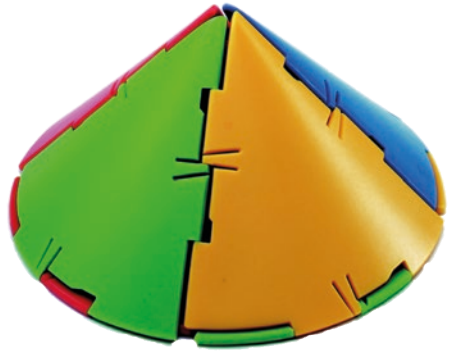
This publication is designed to show what can be achieved with Polydron Sphera.

Polydron materials have been widely used in education and in the home for over 30 years and have enriched the experiences of many thousands of children. Indeed, for many children Polydron has been their introduction to the wonderful world of 3-D geometry and construction.

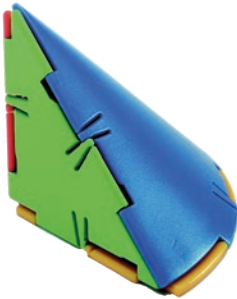
## Spherical Polydron

Sphera is the successful addition to the Polydron family of products. It connects to and brings all the benefits of Polydron and Frameworks to help understand spheres, cylinders and cones

- A cone is a solid with a circular base and curved sloping sides that meet at an apex.



- Make some fractions of a cone



One Quarter



Three Quarters



One Half



A Double Cone

- A cylinder has a circular base and top.



- Make some fractions of a cylinder.



One Half



One Quarter



Three Quarters

- Here is another way to make three quarters.



- Make some fractions of this sphere.
- This piece helps to make construction easier.



One Half  
This is called a  
Hemisphere



One Quarter



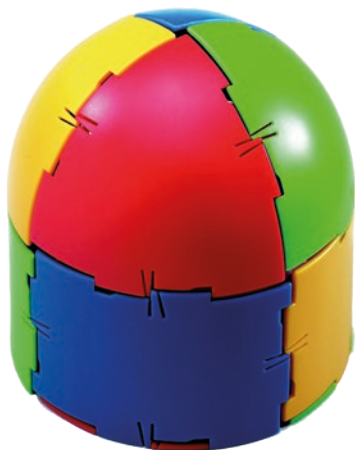
One Eighth



Use three eighths and one eighth to make one half



- You might start your dome by removing the base from the hemisphere.

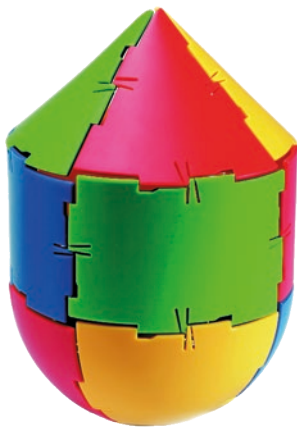


- You may find it helpful to use this piece to complete the capsule.





- Make each of these and explore what happens when they spin.



- Make houses.
- Make them taller.



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