

POLYDRON[®]

2025



POLYDRON®

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Welcome to our catalogue

We are pleased to let you know that our entire range of outdoor products are all made from recycled plastic, two of which are brand new! See our **Dinosaur Set** on pages 20-21 and **XL Octoplay** on pages 34-35. We also have vibrant new colour mixing sets (see pages 64-65) and we welcome new **Acrobats** to our magnetic range (see page 45). Our products continue to help teachers and pupils all across the world, and into every recognised educational setting, including nurseries, kindergarten, secondary, primary, elementary and even reaching into higher education.



Cyril Dowling
Sales Director



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Director



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All images & copy are available for your use in your catalogues or websites for the promotion of Polydron products.

Hannah Hoskins looks after our marketing department.

If you require images, videos, copy or safety documents, please call +44 (0) 1285 863980 or email marketing@polydron.com

Reasons to choose Polydron?

Pedagogically proven resources: trusted by teachers, our resources are educationally sound



We test to all relevant toy safety standards: safety is the key driver throughout our product development



Using sustainable materials is key for us. Look for our FSC® Certified products

Distribution hubs now fully operational in the UK, Europe and the USA

The Environment

Look out for these logos next to our products



100% RECYCLABLE



BPA FREE



RECYCLABLE CARTON



Safety Symbols



SMALL PARTS

CHOKING HAZARD DUE TO SMALL PARTS:
Not suitable for children under 3 years old



LONG CORDS

STRANGULATION HAZARD DUE TO LONG CORDS



MAGNETS

- This toy contains magnets or magnetic components.
- Magnets sticking together or becoming attached to a metallic object inside the human body can cause serious or fatal injury.
- Seek immediate medical help if magnets are swallowed or inhaled.



NEW products to keep a look out for!

65



20



43



34



45



Check out our socials for all of our latest news!



polydronuk



polydron



polydronvideos

POLYDRON KINDERMAG

Designed and tested for age 12 months+

- ▶ Explore the magic of magnetic construction and polarity.
- ▶ Super tough design.
- ▶ The magnetic pieces can be stuck together with a simple snap to construct and create a variety of 2D patterns and 3D models.
- ▶ Each square piece measures 7 x 7cm (2.76 x 2.76 inches)

Polydron KinderMag Set

48 piece set ideal for smaller groups of children.

24

Square

24

Triangle



BPA Free

Recyclable
Carton

Reference 57-5000

Contents 48 pieces

L x W x H 22.5 x 15 x 6cm -
8.86 x 5.91 x 2.36in

Weight 1.2 kg - 2.65 lbs



@our_life_our_play

Polydron KinderMag Class Set

Larger groups of children will love to engage in collaborative play when building their 2D and 3D shapes and constructions.

48

Square

48

Triangle



BPA Free

Recyclable
Carton

Reference 57-5010

Contents 96 pieces

L x W x H 23 x 21.5 x 7cm - 9.06 x 8.46 x 2.76in

Weight 2.3 kg - 5.07 lbs



VIDEO

96 Piece Set



Translucent Polydron KinderMag Set

48 piece set ideal for smaller groups of children.

24

Square

24

Triangle



BPA Free

Recyclable
Carton

Reference 57-5000T

Contents 48 pieces

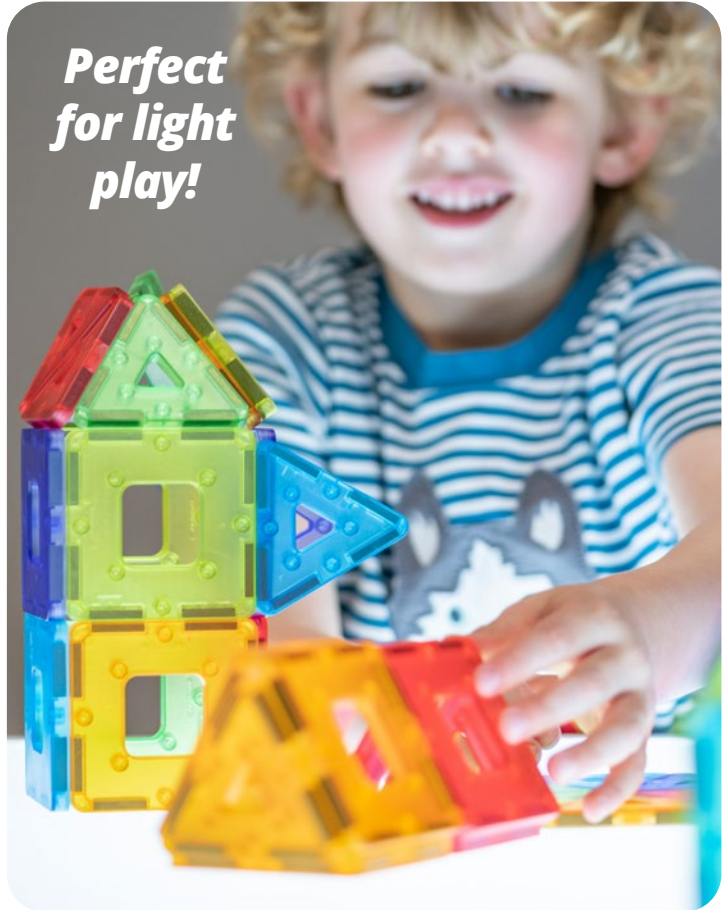
L x W x H 22.5 x 15 x 6cm - 8.86 x 5.91 x 2.36in

Weight 1.2 kg - 2.65 lbs



VIDEO

*Perfect
for light
play!*



creative
PLAY AWARDS 2023

WINNER





6
Vibrant
Colours

Translucent Polydron KinderMag Class Set

Ideal for larger groups of children.

48

Square

48

Triangle



BPA Free

Recyclable
Carton

Reference 57-5010T

Contents 96 pieces

L x W x H 23 x 21.5 x 7 cm - 9.06 x 8.46 x 2.76 in

Weight 2.3 kg - 5.07 lbs



VIDEO



Designed
for age
12 months+



MYfirst OCTOPLAY

Design amazing models with these easy to slot together pieces

- ▶ Each set includes a model guide for inspiration.
- ▶ Chunky pieces designed for small hands.
- ▶ The pole can be used both for building more intricate models and also for storing the pieces.
- ▶ Each piece measures 12 x 12 cm (4.72 x 4.72 inches).



4 natural
colours



My First Octoplay Set



Reference 81-1010

Contents 21 pieces

L x W x H 29 x 13.5 x 13cm -
11.42 x 5.31 x 5.12in

Weight 0.8 kg - 1.76 lbs



VIDEO



My First Octoplay Class Set



Reference 81-1020

Contents 42 pieces

L x W x H 29.5 x 25 x 13cm - 11.61 x 9.84 x 5.12in

Weight 1.5 kg - 3.31 lbs

"This product has been very popular with our children. They love the vibrant colours and using their imagination skills to build a wide range of structures with the sturdy pieces."

Eleanor Dodds, Carr Manor Community School, Leeds

Pole can be used for building models & storing the pieces



Translucent My First Octoplay Set

- 20 Flats
- 1 Pole
- BPA Free
- Recyclable Carton
- 100% Recyclable

Translucent My First Octoplay Class Set

- 40 Flats
- 2 Poles
- BPA Free
- Recyclable Carton
- 100% Recyclable

Reference	81-1010T	81-1020T
Contents	21 pieces	42 pieces
L x W x H	29 x 13.5 x 13 cm - 11.42 x 5.31 x 5.12in	29.5 x 25 x 13 cm - 11.61 x 9.84 x 5.12in
Weight	0.8 kg - 1.76 lbs	1.5 kg - 3.31 lbs

4 vibrant translucent colours



MYfirst POLYDRON

Easy to join together – ideal for younger builders

- ▶ Supplied in bright colours with white on reverse side.
- ▶ Pieces easily snap together to make a variety of 2D and 3D shapes.
- ▶ Ideal for little hands due to chunky pieces.
- ▶ Square piece measures 12 x 12cm (4.72 x 4.72 inches).

My First Polydron

Contains 10 squares, 10 frame squares,
10 triangles & 10 frame triangles.



Reference 95-3000

Contents 40 pieces

L x W x H 34 x 23.5 x 6.75 cm - 13.39 x 9.26 x 2.66 in

Weight 1.5 kg - 3.31 lbs



Create stunning 2D & 3D models

My First Polydron Gears

This award winning 36 piece set is ideal for introducing younger children to gears. Children build their model and push the gears into the squares. Not only do the gears mesh together on a flat surface but also at an angle of 90 degrees. Turn one gear and see the rest move clockwise and anticlockwise. Includes 5 work cards.



Reference 95-3200

Contents 36 pieces

L x W x H 37.5 x 25.5 x 7.5 cm - 14.76 x 10.03 x 2.95 in

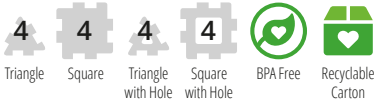
Weight 1.4 kg - 3.08 lbs

"This product is fantastic for supporting mathematics in the Early Years and beyond, encouraging critical thinking, imagination and developing the ability to follow instructions."



My First Polydron Mirrored Set

These stunning mirrored pieces are excellent for learning about reflection and symmetry. Younger children can look at themselves and the world around them. All the pieces are hard wearing and fully compatible with other My First Polydron sets.



Reference 95-3400

Contents 16 pieces

L x W x H 24.5 x 20 x 5 cm - 10 x 7.87 x 1.96 in

Weight 0.75 kg - 1.65 lbs



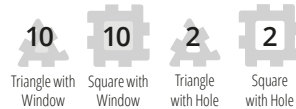
My First Polydron Windows

Supplied in 5 colours, these windows help children explore light, colour mixing and construction in a fun and engaging way. Creates amazing reflections when used with a light resource.

Reversible Pieces



Starter Set



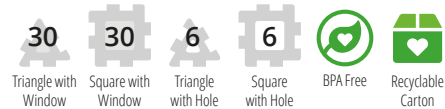
Reference 95-3100

Contents 24 pieces

L x W x H 34 x 23.5 x 4.5 cm -
13.38 x 9.25 x 1.77 in

Weight 0.97 kg - 2.2 lbs

Class Set



Reference 95-3110

Contents 72 pieces

L x W x H 34 x 23.5 x 10.5 cm -
13.38 x 9.25 x 4.13 in

Weight 2.6 kg - 5.73 lbs

Explore Colour Mixing

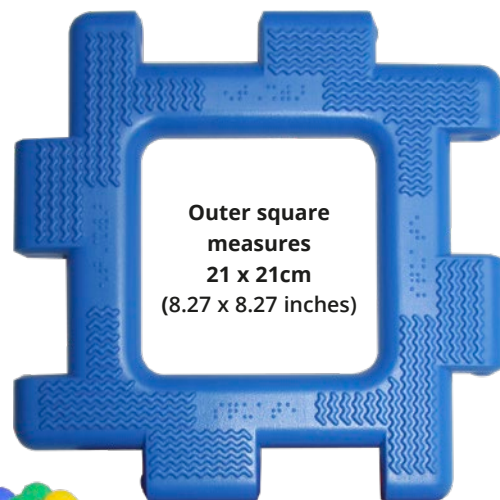


72 Pieces

GIANT POLYDRON

Helps young children understand spatial awareness

- ▶ Perfect introduction to 2D & 3D shapes.
- ▶ Ideal for indoor and outdoor use.
- ▶ Designed for little hands to manipulate easily.
- ▶ Heavily textured on one side.
- ▶ Includes braille for awareness of other methods of communication.
- ▶ A must for all early years and special needs environments.



VIDEO



Giant Polydron Set

20

Square

20

Equilateral



Guide



100% Recyclable



BPA Free

Reference 70-7000

Contents 40 pieces

L x W x H 47 x 47 x 23 cm - 18.5 x 18.5 x 9.06 in

Weight 3.2 kg - 7.05 lbs



What the experts say about Giant Polydron and braille:

"Finding Braille on toys designed for general use has the potential to improve the self-esteem of a visually impaired child, particularly when sharing these toys with sighted peers in a mainstream setting."

Karen Hirst, CYPF Specialist Development Officer (Early Years/Early Intervention),
RNIB (Royal National Institute of Blind People)

Includes Braille**Giant Polydron Class Set**

Ideal for a whole class to use at one time.

40

Square

40

Equilateral



Guide



100% Recyclable



BPA Free

Reference	70-7010
Contents	80 pieces
L x W x H	26 x 47 x 43 cm - 10.24 x 18.5 x 16.93 in
Weight	7.6 kg - 16.76 lbs



VIDEO



**BEST
SELLER**



Translucent Giant Polydron Set

This 60 piece set, suitable for several children to use at the same time, looks stunning when it captures the sunlight outdoors.

Reference	70-7016T
Contents	60 pieces
L x W x H	41 x 30 x 42 cm – 16.14 x 11.81 x 16.54 in
Weight	5 kg – 11.03 lbs



VIDEO



What the experts say about Giant Polydron:

“I like that the pieces are very bright and sturdy. The pieces are easy to connect to each other. Many different ages can enjoy playing with this product, older children would make more elaborate and difficult shapes and younger children can just connect the pieces together.”

“Motor skills are used, creative thinking, working together to create a project, problem-solving when pieces do not fit. It is a great product to use many parts of your brain.”



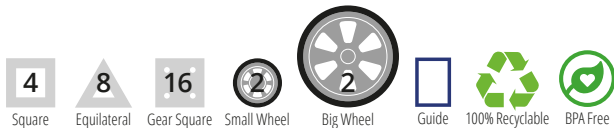
Giant Polydron Vehicle Builders Set

There are two different sized wheels, which allow for an exciting variety of models.

Children will learn to grab, pull and push their models, which helps with their co-ordination and synchronises movement. Comes complete with a picture guide which shows how to build different vehicles. Make all sorts of models such as a hot rod, a tractor, a bus or a racing car!

The easy to use, freely rotating wheels add a new dimension of movement to this very popular product.

**Big Wheels
are 36cm
(14.17 inches)
across!**



VIDEO

Reference	70-7400	Contents	32 pieces
L x W x H	42 x 42 x 40 cm – 16.54 x 16.54 x 15.75 in	Weight	4.6 kg – 10.14 lbs

Giant Polydron Add-on Wheels Set

Increase the play value of your Giant Polydron Sets with these add-on wheels. There are two different sized wheels, which allow for an exciting variety of models.

Compatible with all of the Giant Polydron and XL Polydron triangles and squares.

**Make more
models with
add-on wheels
or extra sets**



Reference	70-7410
Contents	8 pieces
L x W x H	43 x 43 x 30 cm – 16.93 x 16.93 x 11.81 in
Weight	1.66 kg – 3.66 lbs





**SUPER
VALUE**

Giant Polydron Super Value Set

This mega value set is designed to offer you a great saving and price per piece. The set will occupy several classrooms at the same time.

Reference 70-7025

Contents 160 pieces

L x W x H 76x43.5x45.5 cm – 29.92x17.13x17.91 in

Weight 13.5 kg – 29.77 lbs

80

Square

80

Equilateral



Guide



100% Recyclable



BPA Free

Giant Polydron House Builder

Budding young builders will love to construct their own house, skyscraper, church & many other buildings. They can look through the windows at each other and can also learn about shape and space whilst they play.

16

Square

8

Equilateral

30

Gear Square

16

Window

2

Door

Guide



100% Recyclable



BPA Free



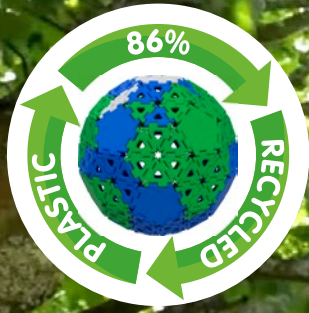
Reference 70-7060

Contents 72 pieces

L x W x H 73 x 40 x 22 cm – 28.74 x 15.75 x 8.66 in

Weight 6.8 kg – 14.99 lbs





Giant Polydron Giant Gears

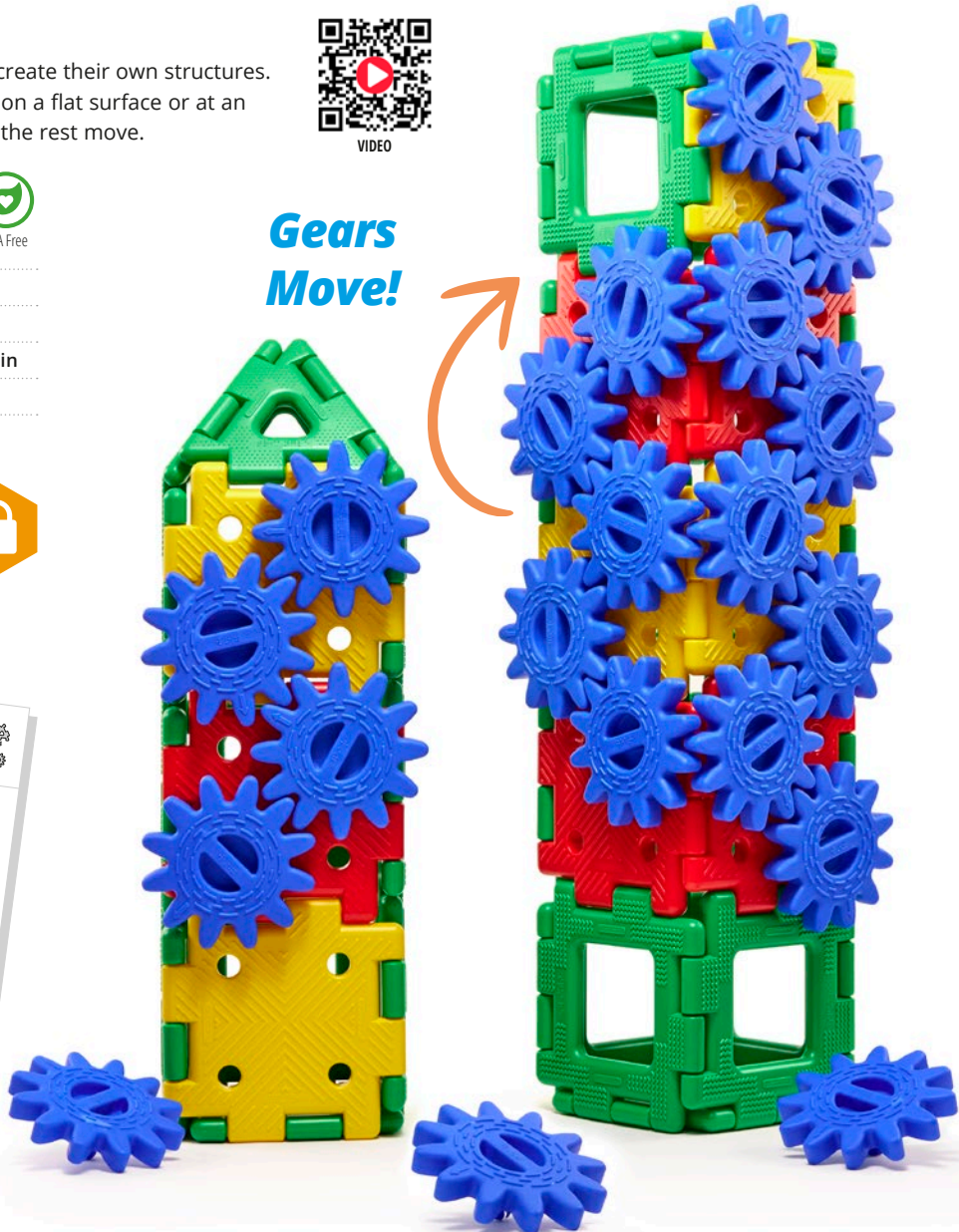
Children can push the gears into place and create their own structures. The gears ingeniously mesh together either on a flat surface or at an angle of 90 degrees. Turn one gear and see the rest move.

- 24 Square
- 4 Equilateral
- 10 Gear Square
- 20 Gear
- Guide
- 100% Recyclable
- BPA Free

Reference	70-7070
Contents	58 pieces
L x W x H	60 x 41 x 22 cm – 23.62 x 16.14 x 8.66 in
Weight	5 kg – 11.02 lbs



Gears Move!





Giant Polydron Platonic Solids Set

A great student set suitable for young children to investigate and for older children to build more advanced constructions. Build and explore the five Platonic Solids.



Reference	70-7056
Contents	52 pieces
L x W x H	46 x 46 x 34 cm - 18.11 x 18.11 x 13.39 in
Weight	4.8 kg - 10.58 lbs

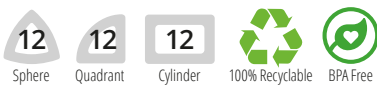


Giant Polydron Sphera Set

A great set to introduce the properties of 2D and 3D shapes and develop spatial awareness at an early age in a fun, engaging and hands-on way.

Children will love the tactile nature of Giant Polydron Sphera, and the chunky pieces mean it's ideal for little hands to build constructions with ease.

Heavily textured on one side and smooth on the reverse. The variety of pieces allows you to build dome-topped cylinders, cylinders, spheres and half spheres.



Reference	70-7500
Contents	36 pieces
L x W x H	46 x 46 x 38 cm - 23.62 x 16.54 x 11.42 in
Weight	4.8 kg - 10.63 lbs



Build, Roar & Explore with the Giant Polydron Dinosaur!

Unleash Prehistoric Fun: Build Multiple Dinosaurs with One Giant Polydron Set

- ▶ Children can construct their own dinosaurs, encouraging problem-solving, spatial awareness and teamwork.
- ▶ The dinosaur's claws are fully removable, adding a dynamic element to role play adventures.
- ▶ Children can imagine themselves as explorers, palaeontologists or even the dinosaur itself!
- ▶ Made from 100% recycled material, this giant dinosaur is built to encourage **hours** of imaginative play while ensuring safety for young adventurers.



100% Recyclable



BPA Free

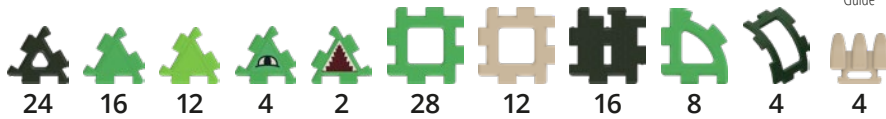


Guide



*Feel the Adventure:
Bringing Dinosaurs to
Life with Braille!*

Giant Polydron Dinosaur Set



Reference 70-7900 Contents 130 pieces




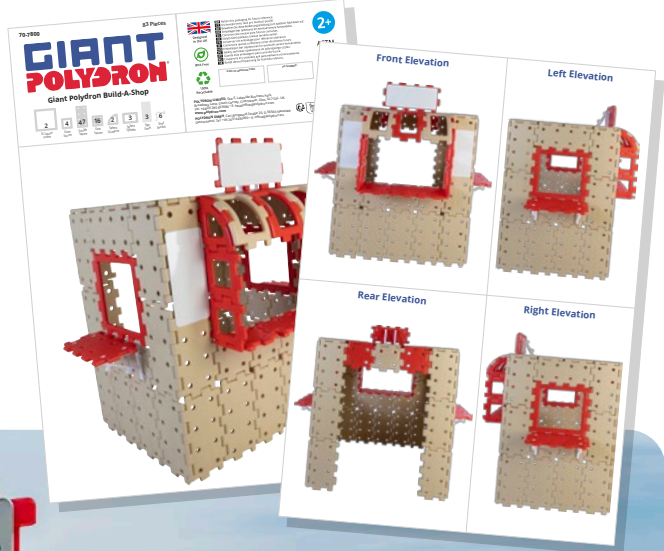
NEW



Giant Polydron Build-A-Shop

Children will love to build their own shop as they combine role play and construction into one fun activity. A variety of shops can be made with the one set. Add windows to the side of the building, shelves on the outside or inside, and write the shop name and goods being sold on the panels.

2 XL Square Frame	4 Giant Square	47 Double Square	16 Gear Square	2 Sphera Quadrant	3 Sphera Cylinder	3 Sign Panel	6 Shelf Bracket	1 Guide
Reference 70-7800								 VIDEO
Contents 83 pieces								
L x W x H 78.5 x 43 x 42 cm - 30.91 x 16.93 x 16.54 in								
Weight 16.5 kg - 36.38 lbs								



XL POLYDRON

What the experts say:

"Finding Braille on toys designed for general use has the potential to improve the self-esteem of a visually impaired child, particularly when sharing these toys with sighted peers in a mainstream setting."

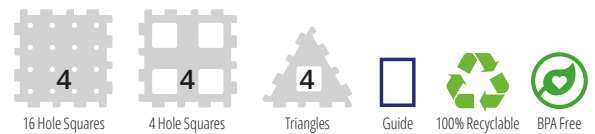
Karen Hirst, CYPF Specialist Development Officer (Early Years/ Early Intervention), RNIB (Royal National Institute of Blind People)

Four times the size of Giant Polydron!

- ▶ Designed to fit perfectly with Giant Polydron.
- ▶ Teaches children 2 and 3 dimensional space and encourages role play.
- ▶ Sets contain the two fundamental shapes of all construction products: squares and triangles.
- ▶ Build castles, towers, cars, boats and houses with tunnels to crawl through!
- ▶ Compatible with Giant Polydron Gears (see page 18).
- ▶ Square measures 40.5 x 40.5 cm (15.94 x 15.94 inches).

XL Polydron Set 1

A basic starter set to introduce XL Polydron.



Reference	70-7100
Contents	12 pieces
L x W x H	41 x 28 x 41 cm - 16.14 x 11.02 x 16.14 in
Weight	4.2 kg - 9.26 lbs



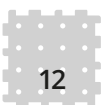
VIDEO





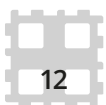
XL Polydron Set 3

A great set to inspire the class.



12

16 Hole Squares



12

4 Hole Squares



12

Triangles



Guide



100% Recyclable



BPA Free

Reference 70-7110

Contents 36 pieces

L x W x H 84 x 43 x 42 cm – 33.07 x 16.93 x 16.54 in

Weight 14.05 kg – 30.97 lbs



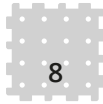
VIDEO



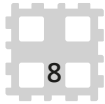
**BEST
SELLER**

XL Polydron Set 2

Build towers and larger constructions.



16 Hole Squares



4 Hole Squares



Triangles



Guide



100% Recyclable



BPA Free

Reference 70-7105

Contents 24 pieces

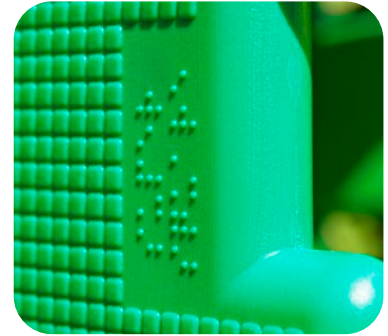
L x W x H 59 x 43 x 42 cm – 23.23 x 16.93 x 16.54 in

Weight 9.65 kg – 21.27 lbs



**Giant Polydron
& XL Polydron**
*Designed to
fit together
perfectly!*

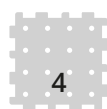
Includes Braille



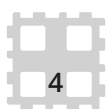


XL Polydron Natural Colours Set 1

A basic starter set to introduce XL Polydron.



16 Hole Squares



4 Hole Squares



Triangles



Guide



100% Recyclable



BPA Free

Reference 70-71200

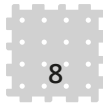
Contents 12 pieces

L x W x H 41 x 28 x 41 cm – 16.14 x 11.02 x 16.14 in

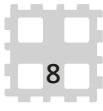
Weight 4.2 kg – 9.26 lbs

XL Polydron Natural Colours Set 2

Build towers and larger constructions.



16 Hole Squares



4 Hole Squares



Triangles



Guide



100% Recyclable



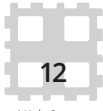
BPA Free

XL Polydron Natural Colours Set 3

A great set to inspire the class.



16 Hole Squares



4 Hole Squares



Triangles



Guide



100% Recyclable



BPA Free

Reference	70-71205	70-71210
Contents	24 pieces	36 pieces
L x W x H	59 x 43 x 42 cm – 23.23 x 16.93 x 16.54 in	84 x 43 x 42 cm – 33.07 x 16.93 x 16.54 in
Weight	9.65 kg – 21.27 lbs	14.05 kg – 30.97 lbs



Build your own dome

teach
EARLY YEARS
AWARDS 2024
WINNER



Reference 70-7130

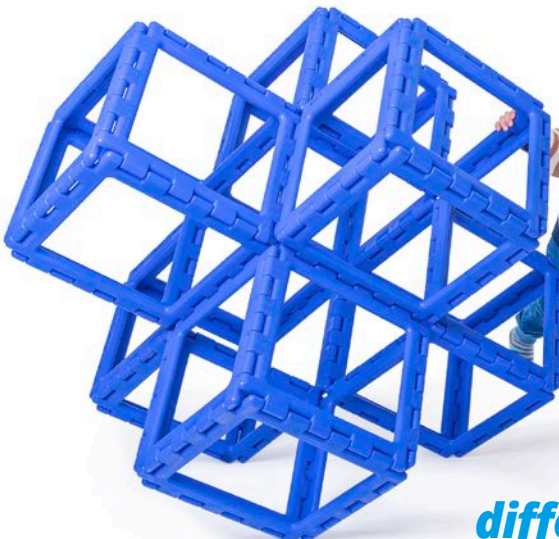
Contents 62 pieces

L x W x H 94.5 x 61.5 x 43 cm - 37.2 x 24.21 x 16.93 in Weight 16.5 kg - 36.38 lbs

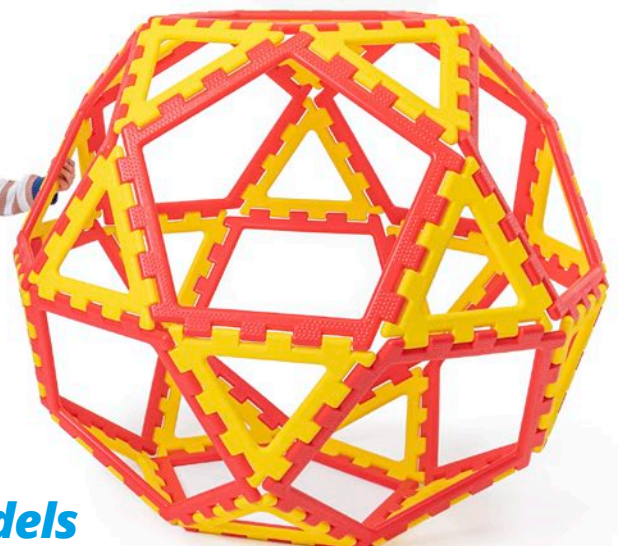


Multifunctional use...

Build a ball



Create different models

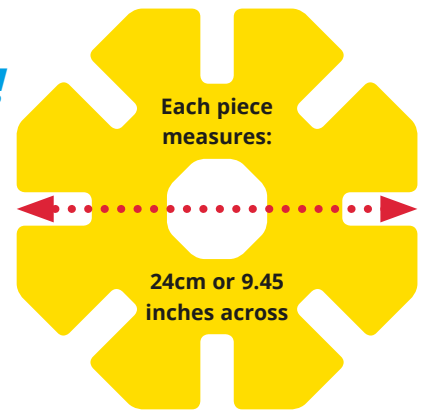


GIANT OCTOPLAY

Don't wait,
'GO' create!

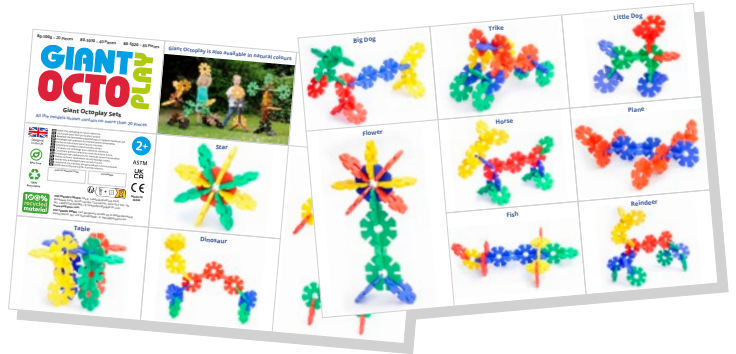


VIDEO



Now made from **100% recycled material**

- ▶ The brilliant and colourful large construction invention!
- ▶ Original and unique: easily construct really large models.
- ▶ Textured surfaces make the shapes very tactile.
- ▶ Connection is simple and easy to do.
- ▶ Available in bright or natural colours.
- ▶ Suitable for use outdoors or inside.
- ▶ Each set contains at least 1 pole which can be used for storage and model building.



Giant Octoplay 21 Pieces

Makes models like the man, dinosaur, dog, flower, horse, plane, fish and reindeer, one at a time.



1



Guide



100% Recyclable



BPA Free

Reference 80-1000

Contents 21 pieces

L x W x H 50 x 25 x 25 cm – 19.69 x 9.84 x 9.84 in

Weight 3.15 kg – 6.94 lbs

**Stack &
Store**





Giant Octoplay 42 Pieces

Construct larger models or two or more simpler models at the same time.

40 2   

Giant Octoplay 84 Pieces

Allows larger, more complex models or multiple models to be built.

80 4   

Reference	80-1010	80-1020
Contents	42 pieces	84 pieces
L x W x H	49 x 47 x 25 cm – 19.29 x 18.5 x 9.84 in	50 x 50 x 47 cm – 19.69 x 19.69 x 18.5 in
Weight	6 kg – 13.23 lbs	12.56 kg – 27.69 lbs



All sets include a model guide



Now made from 100% recycled material

Build Big, Play Naturally

- ▶ Crafted from 100% recyclable material in calming, earthy tones, **Natural Giant Octoplay** offers endless opportunities for building life-sized structures, from towers to tunnels and woodland scenes and animals.

Giant Octoplay Natural Colours 21 Pieces

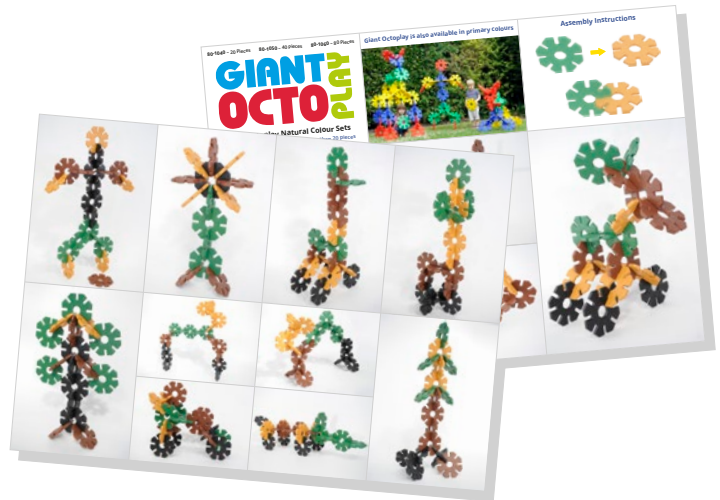


Reference 80-1040

Contents 21 pieces

L x W x H 50 x 25 x 25 cm - 19.69 x 9.84 x 9.84 in

Weight 3.15 kg - 6.94 lbs



All sets include a model guide





Giant Octoplay Natural Colours 42 Pieces

Giant Octoplay Natural Colours 84 Pieces

40 2 Guide 100% Recyclable BPA Free

80 4 Guide 100% Recyclable BPA Free

Reference	80-1050	80-1060
Contents	42 pieces	84 pieces
L x W x H	49 x 47 x 25 cm 19.29 x 18.5 x 9.84 in	50 x 50 x 47 cm - 19.69 x 19.69 x 18.5 in
Weight	6 kg - 13.23 lbs	12.56 kg - 27.69 lbs



XL OCTOPLAY

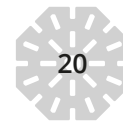
Unleash the power of creativity with XL Octoplay
The latest & largest addition to the Polydron family

- ▶ Designed to inspire and challenge, XL Octoplay takes the classic Giant Octoplay concept to a whole new level.
- ▶ This oversized building set is perfect for children, offering endless possibilities for constructing towering structures, intricate patterns and expansive models.
- ▶ Durable and Safe: Manufactured from 100% recycled plastic, these robust pieces are built to last.
- ▶ Smooth edges ensure safe play for little hands, while the interlocking design provides a sturdy connection for endless creations.
- ▶ Indoor and Outdoor Play: whether you're building in the classroom or the playground, the weather-resistant pieces are ready for any environment.
- ▶ Each piece measures 42 x 42 cm (16.54 x 16.54 inches).



Stack & Store

XL Octoplay 21 Pieces



Guide

100% Recyclable

BPA Free

Reference 82-8000 Contents 21 pieces





XL Octoplay 42 Pieces

NEW



Reference 82-8100 Contents 42 pieces



WOODEN OCTOPLAY



Build free-standing models with octagonal pieces

- ▶ Chunky wooden high quality pieces designed for small hands.
- ▶ Pieces measure 12 x 12cm (4.72 x 4.72 inches) x 6mm (0.24 in) thick.
- ▶ Pieces slot together with ease.
- ▶ Supplied in FSC® certified plywood.

Wooden Octoplay

Create a dog, man, tower or many other models with this 20 piece set. Colour instruction guide is included.



Reference 30-2000

Contents 20 pieces

L x W x H 13.5 x 13.5 x 13.5 cm - 5.31 x 5.31 x 5.31 in

Weight 1.013 kg - 2.23 lbs



OCTOPLAY

Build almost any model with a vast array of pieces

- ▶ Make moving vehicles with the Action Pack.
- ▶ Combine struts with octagonal pieces.
- ▶ Pieces slot and slide together with ease.

Octoplay Action Pack

Stimulate children's imagination with this 296 piece set, including struts and the wheel set. Complete with exploring booklet.

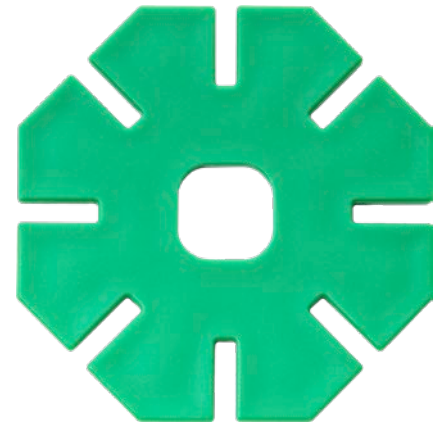


Reference 10-8030

Contents 296 pieces

L x W x H 29 x 29 x 22 cm - 12.2 x 12.2 x 9.06 in

Weight 2.6 kg - 5.73 lbs



Actual Size

Each piece measures 5.5cm across
(2.16 inches)

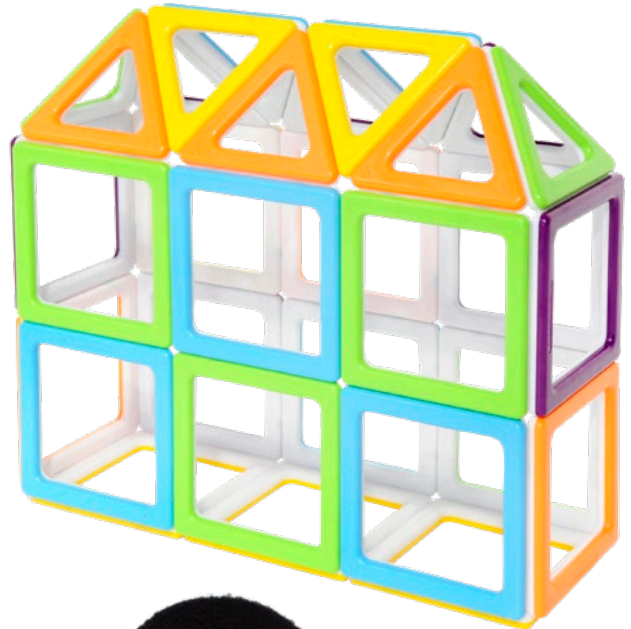
296 Pieces



MEGAMAG POLYDRON

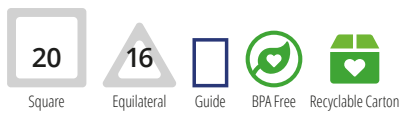
Magnetic construction for younger children

- ▶ Manufactured from hard wearing engineering grade ABS.
- ▶ Encourages students to explore geometry and identify the properties of 2D and 3D shapes.
- ▶ Chunky, brightly coloured squares and triangles quickly and easily fit together to make a wide range of shapes and models.
- ▶ Due to their polarity, magnets are self-correcting, and the coloured side (orange, yellow, green, purple or blue) pieces join together, but not with the reverse white side.
- ▶ Squares measure 12 x 12cm (4.72 x 4.72 inches).



MegaMag Polydron Set

A great set for small groups or individual students.

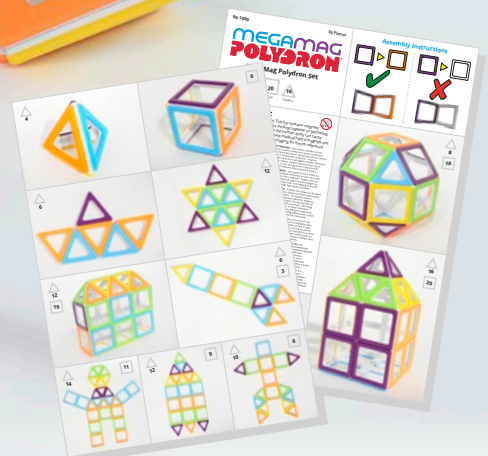


Reference	90-1000
Contents	36 pieces
L x W x H	36 x 25 x 6.5 cm – 14.17 x 9.84 x 2.56 in
Weight	1.5 kg – 3.31 lbs

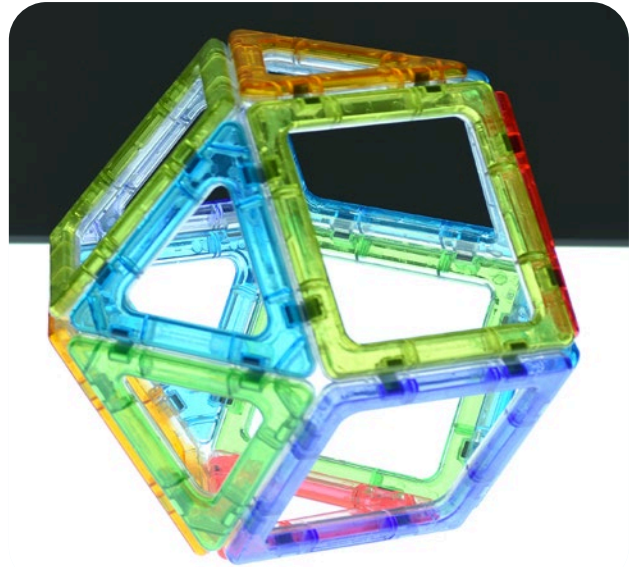
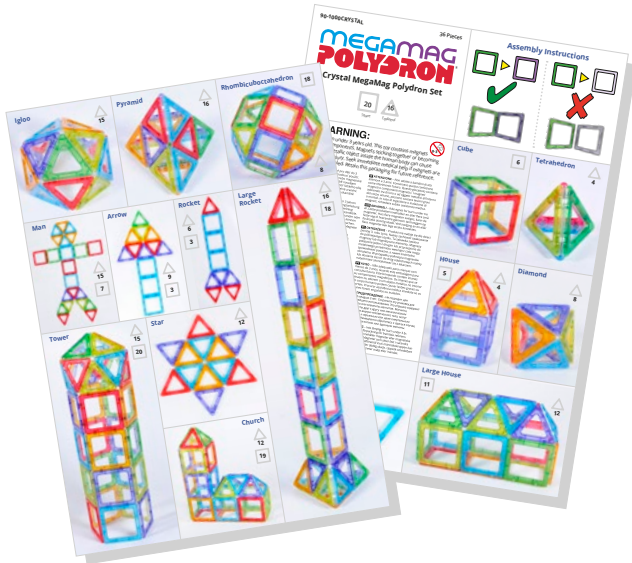


VIDEO

**Larger
pieces for
smaller
hands**



Explore shape & colour against a light source with Crystal MegaMag



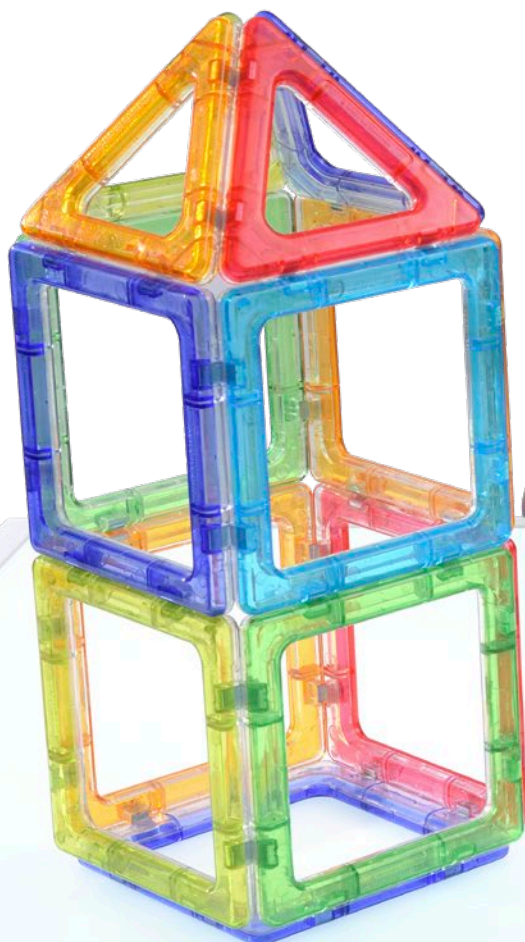
Crystal MegaMag Polydron Set

Set includes 20 squares and 16 equilateral triangles.

Square	Equilateral	Guide	BPA Free	Recyclable Carton

Reference	90-1000 CRYSTAL	Contents	36 pieces
L x W x H	36 x 25 x 6.5 cm - 14.17 x 9.84 x 2.56 in	Weight	1.5 kg - 3.31 lbs

All models shown can be made at the same time



Ideal on a light table!

Junior POLYDRON

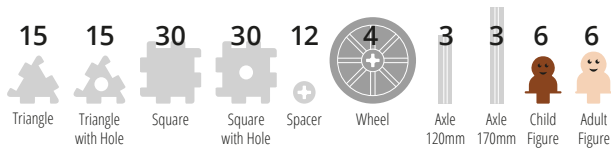
Soft flexible pieces designed for young builders

- ▶ Made from super durable Polypropylene.
- ▶ Designed to allow the easy construction of cars, planes and other fun models.
- ▶ Children learn about moving vehicles.
- ▶ Multicultural figures easily fit into the chunky pieces.

**All sets include
a model guide**



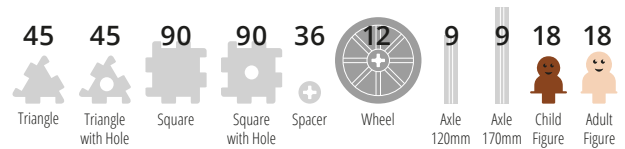
Junior Polydron Set



100% Recyclable BPA Free

Reference	60-6000
Contents	124 pieces
L x W x H	28 x 24 x 8 cm 11.02 x 9.45 x 3.15 in
Weight	0.6 kg - 1.32 lbs

Junior Polydron Class Set



100% Recyclable BPA Free

Reference	60-6010
Contents	372 pieces
L x W x H	29 x 29 x 22 cm 11.81 x 9.84 x 5.91 in
Weight	2.2 kg - 3.97 lbs



HASHMAG POLYDRON

Explore 2D nets & 3D models with stunning designs

- ▶ Unique magnetic shapes, in 6 stunning translucent colours.
- ▶ Made from super tough, extremely durable, engineering grade MABS.
- ▶ These uniquely shaped pieces will help you to create stunning models that catch the light in new ways.
- ▶ Compatible with Magnetic Polydron.



*Ideal on a
light table!*



Hashmag Polydron Starter Set

Designed for individual or small group use.



Reference 55-8000

Contents 24 pieces

L x W x H 14 x 12.5 x 4 cm – 5.5 x 4.9 x 1.6 in

Weight 0.357 kg – 0.78 lbs

Hashmag Polydron Class Set

Expand the range of models you can make with this whole class set.



Reference 55-8010

Contents 72 pieces

L x W x H 19.5 x 18 x 5.5 cm –
7.7 x 7.1 x 2.2 in

Weight 0.992 kg – 2.18 lbs

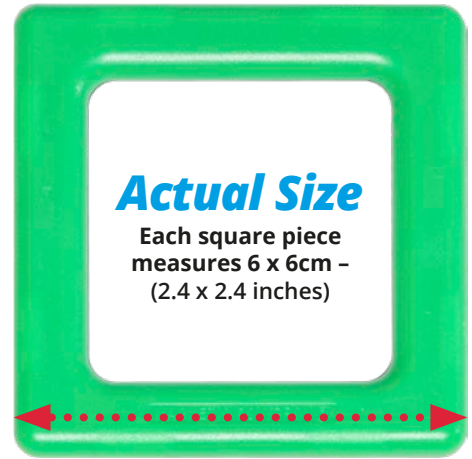
*Develops fine
motor skills*



MAGNETIC POLYDRON

Build models quickly & easily with strong magnets

- ▶ Manufactured from hard wearing ABS.
- ▶ Simple colour coding demonstrates polarity.



Magnetic Polydron Set

Ideal for small groups or individuals this set contains over 100 magnets.



Reference 50-1000

Contents 32 pieces

L x W x H 17 x 9 x 6 cm – 6.69 x 3.54 x 2.36 in

Weight 0.4 kg – 0.88 lbs

Magnetic Polydron Class Set

Enough pieces for a classroom of children to share their ideas and inspire their classmates. Contains over 300 magnets.



Reference 50-1010

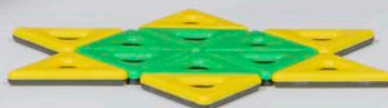
Contents 96 pieces

L x W x H 24 x 24 x 20 cm – 9.45 x 9.45 x 7.87 in

Weight 1.4 kg – 3.09 lbs



**BEST
SELLER**



Magnetic Polydron Shapes Set

This 70-piece set includes a wide variety of magnetic shapes – equilateral triangles, squares, rectangles, isosceles triangles, pentagons, and right-angle triangles – giving young builders endless possibilities to explore geometry in a hands-on, creative way.

32	8	3	20	5	2
Equilateral	Right Angle	Isosceles	Square	Rectangle	Pentagon
Reference	50-8060	Contents	70 pieces		



NEW



Open frame pieces allow you to see inside

Magnetic Polydron Super Class Set

A complete magnetic construction tool for any classroom or play group. The shapes in this set offer a wealth of possibilities. The panels challenge the creative instincts of children in the classroom as well as allowing them to easily construct recognisable geometric shapes. A simple guide gives learners initial recommendations to build models which can evolve into more advanced shapes in accordance with the children's growing imagination and confidence.

Reference	50-1050
Contents	184 pieces
L x W x H	27 x 27 x 22 cm - 12.2 x 12.2 x 9.06 in
Weight	2.4 kg - 5.29 lbs

36

Square

60

Equilateral

24

Right Angle

12

Rectangle

12

Pentagon

20

Mirror Panel

20

Write-on/off Panel



BPA Free



Recyclable Carton

**BEST
SELLER**



184 Pieces



Magnetic Polydron Extra Shapes Set

The pentagon, rectangle, right angled triangle, isosceles triangle and hexagon will give renewed possibilities for construction and geometrical models.

24

Right Angle

12

Rectangle

12

Pentagon

Guide



BPA Free



Recyclable Carton

Reference 50-1030

Contents 48 pieces

L x W x H 21 x 10 x 9 cm -
8.27 x 3.94 x 3.54 in

Weight 0.7 kg - 1.54 lbs



Magnetic Polydron Acrobats Set

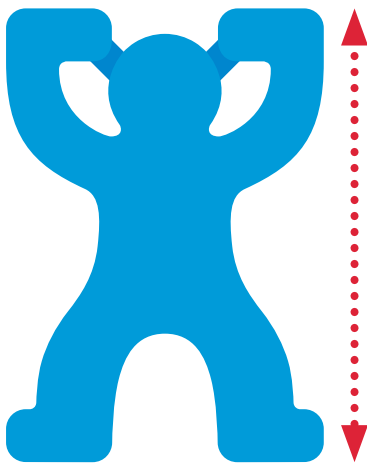
- ▶ Geometry never looked this exciting before!
- ▶ Children will be amazed by the structures and shapes they can create with this 54 piece set.
- ▶ The acrobats can be placed standing up, or upside down.
- ▶ Lay them flat or insert into numerous geometrical shapes.



Reference 50-8070 Contents 54 pieces



NEW

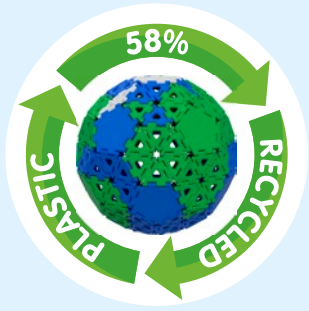


Actual Size

Each acrobat measures
4.2 x 6 cm (1.6 x 2.4 inches)












Includes
Model
Guide



Magnetic Polydron Drivers Set

Children can create their own vehicles and develop an understanding of how things work. They will learn how to grab, pull and push their models.





								
4	32	28	16	6	6			
Wheel	Square	Equilateral	Square with Hole	Child Figure	Adult Figure	Guide	BPA Free	Recyclable Carton

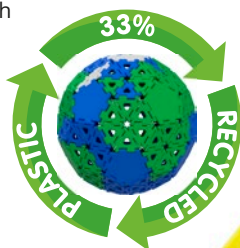
Reference	50-1095
Contents	92 pieces
L x W x H	24 x 24 x 20 cm – 9.45 x 9.45 x 7.87 in
Weight	1.5 kg – 3.31 lbs



Magnetic Polydron Wheels Add-on Set

Use with your existing Magnetic Polydron and make all sorts of models: a hot rod, a tractor, a bus or a racing car, with these freely rotating wheels!

			
4	4		
Wheel	Square with Hole	BPA Free	Recyclable Carton

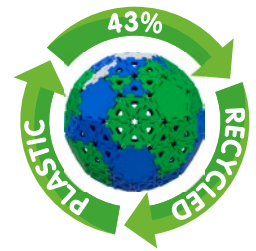


Reference	50-1065
Contents	8 pieces
L x W x H	10 x 9 x 9 cm – 3.94 x 3.54 x 3.54 in
Weight	0.3 kg – 0.66 lbs



Magnetic Polydron Play Set

Stimulate children's imagination, creativity and play. Construct a variety of planes, helicopters, cars and houses with this set. With a simple snap! Includes engines, beams, spinners and propellers for added play value. Includes a building guide. Compatible with all existing Magnetic Polydron sets.



144 Pieces



- 21
- 4
- 62
- 4
- 9
- 8
- 2
- 3
- 4
- 3
- 4
- 4
- 1
- 6
- 2
- 3
-
-

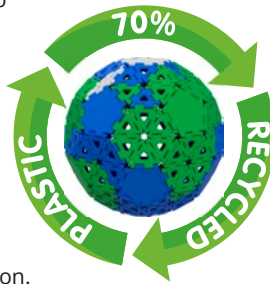
Reference	50-8080	Contents	144 pieces
L x W x H	35 x 26 x 7.5 cm - 13.78 x 10.24 x 2.95 in	Weight	2.5 kg - 5.51 lbs

Magnetic Polydron Mathematics Set

This class set contains everything you need to teach 2D and 3D shapes to school children. This vast set contains 11 different shapes with a total of 118 pieces.

Learners can start with simple 2D shapes, tessellations and nets before moving onto more complicated 3D shapes.

Includes triangles, squares, pentagons and hexagons for endless mathematical exploration. Once the basic shapes have been mastered, children can make spheres, cylinders and cones as well as the cross sections of them.



- 20
- 12
- 12
- 20
- 10
- 12
- 4
- 8
- 12
- 4
- 4
-
-
-

Reference	50-7000
Contents	118 pieces
L x W x H	27 x 27 x 22 cm - 10.63 x 10.63 x 8.66 in
Weight	2 kg - 4.41 lbs

Magnetic Polydron School Set

Bring geometry to life with this huge set of Magnetic Polydron! This set is the most economical way to buy enough Magnetic Polydron for several classrooms to use!

Reference	50-4000
Contents	224 pieces
L x W x H	40 x 36 x 25 cm – 15.75 x 14.17 x 9.84 in
Weight	3.32 kg – 7.32 lbs

**Includes
Model
Guide**



Magnetic Polydron Platonic Solids Set

A great student set for young children to investigate and for older children to build more advanced constructions. Build and explore the five Platonic Solids.

6	32	12	
Square	Equilateral	Pentagon	BPA Free

Reference	50-5056
Contents	50 pieces
L x W x H	24 x 19 x 6 cm – 9.45 x 7.48 x 2.36 in
Weight	0.96 kg – 2.12 lbs

50 Pieces



**Build and
explore the
5 Platonic
Solids**



MAGNETIC POLYDRON

Introduce children to the wonder of reflection & geometry with **Mirrored Magnetic Polydron**

- ▶ Mirrored finish will fascinate children as they explore reflection and symmetry.
- ▶ Children will also develop key mathematical skills whilst learning through play.
- ▶ Ideal for sensory play environments.
- ▶ Inspire children's imagination as they see their reflections and the objects around them in the mirrored pieces.
- ▶ Includes a building guide for inspiration.
- ▶ Compatible with all existing Magnetic Polydron sets.
- ▶ Manufactured from high grade ABS.

Mirrored Magnetic Polydron Set

18

Square

18

Equilateral

12

Pentagon



Guide



BPA Free



Recyclable Carton

Reference 50-4020

Contents 48 pieces

L x W x H 23 x 19 x 5 cm - 9.06 x 7.48 x 1.97 in

Weight 1 kg - 2.21 lbs

"The children immediately took a liking to this product and it has become one of their favourite things to play with every day. They love making different structures and it has helped them recognise the different shapes. The pieces are very strong and even after being dropped by the children, there are no scratches or damages at all."

Emily, Holly House Day Nursery, Leeds



VIDEO

48 Pieces



MAGNETIC POLYDRON

Translucent Magnetic Polydron: looks stunning on a light panel

- ▶ These brilliant pieces will bring a new design angle to your models and can even be used with a light panel.
- ▶ Children will see inside solid structures and begin to understand the shape and space within.
- ▶ Pieces are made from super tough, engineering grade MABS, which is extremely durable.
- ▶ The clear colours create stunning models and colour contrast within models.
- ▶ Each square piece measures 6 x 6 cm (2.4 x 2.4 inches).

**BEST
SELLER**



Translucent Magnetic Polydron Set

24	40	□	♻️	♻️
Square	Equilateral	Guide	BPA Free	Recyclable Carton

Reference 50-3000T

Contents 64 pieces

L x W x H 12 x 12 x 10 cm -
7.09 x 5.51 x 1.97 in

Weight 0.763 kg - 1.76 lbs



VIDEO



Translucent Magnetic Polydron Shapes Set

- ▶ This 64 piece set includes a wide variety of magnetic shapes – equilateral triangles, squares, rectangles, isosceles triangles, pentagons, and right-angle triangles – giving young builders endless possibilities to explore geometry in a hands-on, creative way.
- ▶ Build, connect, and discover the magic of geometry with this dynamic set!

24	4	12	14	8	2
Equilateral	Right Angle	Isosceles	Square	Rectangle	Pentagon
Reference 50-3060		Contents 64 pieces			



Translucent Magnetic Polydron Class Set

A great set to occupy larger groups of children building 2D and 3D shapes.



Reference 50-3000T/SPECIAL

Contents 128 pieces

L x W x H 24 x 24 x 20 cm - 9.45 x 9.45 x 7.87 in

Weight 1.771 kg - 3.9 lbs

128 Pieces



Translucent Magnetic Polydron Exploration Set

This stunning new 100 piece set will allow children to open up their imaginations to create a vast array of amazing models. With 6 different shapes, you can build almost anything from spaceships, rockets and planets, to buildings and structures.

Reference 50-3050

Contents 100 pieces

L x W x H 24 x 24 x 20 cm - 9.45 x 9.45 x 7.87 in

Weight 1.771 kg - 3.9 lbs



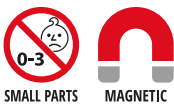
100 Pieces



MAGNETIC POLYDRON

Build complex 3D shapes; spheres, cones & cylinders with **Magnetic Polydron Sphera**

- ▶ Designed for children who have already mastered their first 3D shapes.
- ▶ Supplied with model guide.



Magnetic Polydron Sphera Set

This set contains 36 pieces and comes with a guide to initiate play. It is ideal for small groups or individuals.

8	12	4	4	4	2	2	
Sphere	Quadrant	Cone	Cylinder	Anti-Quadrant	Square	Right Angle	Guide

Reference	50-1110
Contents	36 pieces
L x W x H	14 x 20 x 8 cm – 5.51 x 7.87 x 3.15 in
Weight	0.34 kg – 0.75 lbs

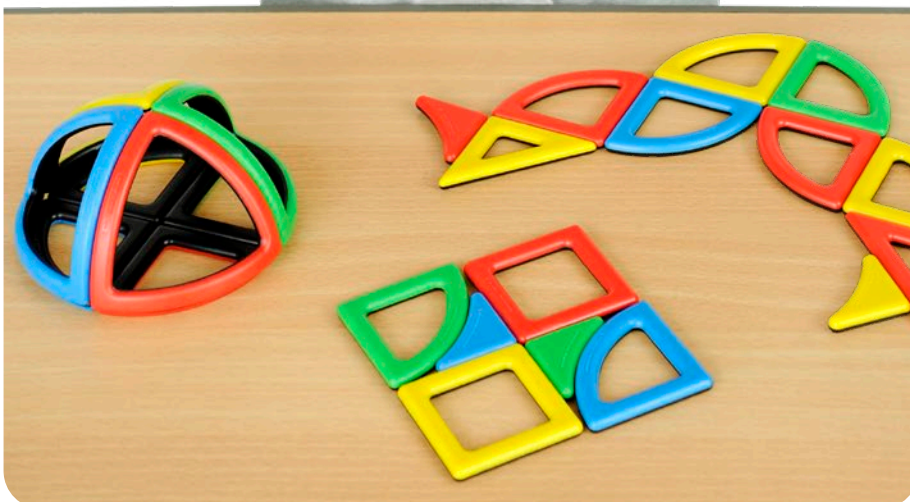


Magnetic Polydron Sphera Class Set

Contains enough pieces for a classroom of children to share their ideas and inspire their classmates.

16	24	8	8	8	4	4	
Sphere	Quadrant	Cone	Cylinder	Anti-Quadrant	Square	Right Angle	Guide

Reference	50-1120
Contents	72 pieces
L x W x H	24 x 24 x 20 cm – 9.45 x 9.45 x 7.87 in
Weight	1.27 kg – 2.8 lbs



MAGNETIC POLYDRON

Build solids in bright or translucent colours with **Solid Magnetic Polydron**

- ▶ Choice of 4 bright colours or 5 stunning translucent colours.
- ▶ Bright colours made from ABS & translucent colours from MABS.
- ▶ Colour coding teaches polarity as the children build their shapes.
- ▶ Each set contains at least 2 open frame pieces for easy construction.
- ▶ Sleek, striking, easy to use, satisfying and attractive.
- ▶ Fully compatible with our existing Magnetic Polydron products.
- ▶ Is a great aid to demonstrate 2D nets folding into 3D solids.



VIDEO

72 Pieces



Solid Magnetic Polydron Starter Set

This set is ideal for small groups of children learning to build their first 2D and 3D shapes.

11	11	1	1			
Square	Equilateral	Square	Equilateral	Guide	BPA Free	Recyclable Carton

Reference 50-9000

Contents 24 pieces

L x W x H 17.5 x 12.2 x 3 cm – 6.89 x 4.8 x 1.18 in

Weight 0.4 kg – 0.88 lbs

Solid Magnetic Polydron Class Set

This set is designed for class use.

35	35	1	1			
Square	Equilateral	Square	Equilateral	Guide	BPA Free	Recyclable Carton

Reference 50-9100

Contents 72 pieces

L x W x H 29.3 x 12.5 x 5 cm – 11.53 x 4.92 x 1.97 in

Weight 1.1 kg – 2.42 lbs

Solid Magnetic Polydron Essential Shapes Set

This award winning set is great for teaching geometry, construction and polarity to larger groups of children. Ideal for building more complex shapes.

35	35	11	20	1	1	1			
Square	Equilateral	Pentagon	Hexagon	Square	Equilateral	Pentagon	Guide	BPA Free	Recyclable Carton

Reference 50-9200

Contents 104 pieces

L x W x H 30.8 x 24.2 x 7 cm – 12.12 x 9.52 x 2.75 in

Weight 2.2 kg – 4.85 lbs

104 Pieces



*Glowing shapes
add an extra
dimension to
learning & play*



Translucent Solid Magnetic Polydron Starter Set

This 24 piece set contains an equal number of triangles and squares and is ideal for small groups of children learning to build their first 2D and 3D shapes.

11	11	1	1			
Square	Equilateral	Square	Equilateral	Guide	BPA Free	Recyclable Carton

Reference	50-9000T
Contents	24 pieces
L x W x H	17.5 x 12.2 x 3 cm – 6.89 x 4.8 x 1.18 in
Weight	0.4 kg – 0.88 lbs

*Ideal for
use on a
light table*

Translucent Solid Magnetic Polydron Class Set

This 72 piece set is designed for whole class use. Groups of children will love to build 2D and 3D shapes.

35	35	1	1			
Square	Equilateral	Square	Equilateral	Guide	BPA Free	Recyclable Carton



*Model guides
included in
all sets*

Reference	50-9100T	Contents	72 pieces
L x W x H	29.3 x 12.5 x 5 cm – 11.53 x 4.92 x 1.97 in	Weight	1.1 kg – 2.42 lbs

Translucent Solid Magnetic Polydron Essential Shapes Set

The ultimate set for teaching geometry, construction and polarity. Ideal for building more complex shapes. Larger groups can make several different 2D & 3D shapes at the same time.

35	35	11	20	1
Square	Equilateral	Pentagon	Hexagon	Square
1	1			
Equilateral	Pentagon	Guide		

**104
Pieces**

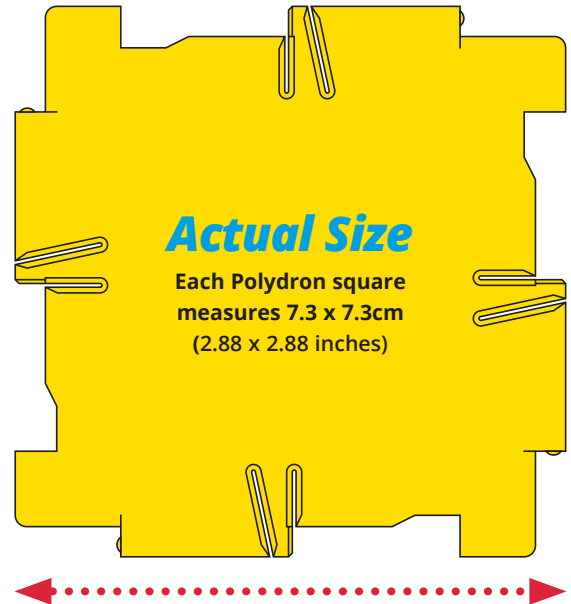


Reference	50-9200T
Contents	104 pieces
L x W x H	30.8 x 24.2 x 7 cm – 12.12 x 9.52 x 2.75 in
Weight	2.2 kg – 4.85 lbs

ORIGINAL POLYDRON

The original and superior construction shape!

- ▶ One of the world's leading resources for teaching shape and space.
- ▶ Ideal for 2D and 3D geometry, design & technology and STEM.
- ▶ The unique joints readily snap together giving a superior hinge.
- ▶ A versatile resource for both play and complex mathematical theories.
- ▶ Available in a range of compatible sets such as Original solid pieces, Frameworks, Bridges, Engineering and STEM.
- ▶ For easy assembly, all sets (except Original Crystal Polydron) have at least one piece of Original Polydron Frameworks.



**BEST
VALUE**

**456
Pieces**



Original Polydron Super Value Set

An excellent, comprehensive set containing over 450 pieces of Polydron that will be a great value addition to any classroom. The most economical way to buy a bulk set of quality Polydron.

80	100	80	160	12	12	12		
Square	Equilateral	Square	Equilateral	Large Wheel	Axle Mount	Stub Axle	100% Recyclable	BPA Free
Reference	10-3010							
Contents	456 pieces							
L x W x H	46 x 36 x 15 cm - 18.11 x 14.17 x 5.91 in							
Weight	4.7 kg - 10.36 lbs							





FREE downloadable teachers' resources & projects are available




Includes Exploring Booklet

Original Polydron Basic Set

Ideal for younger children to work with and explore equilateral triangles, squares and pentagons.

40 100 24   
 Square Equilateral Pentagon Exploring Booklet 100% Recyclable BPA Free

Reference	10-3005
Contents	164 pieces
L x W x H	37 x 24 x 7 cm - 14.57 x 9.45 x 2.76 in
Weight	1.86 kg - 4.1 lbs

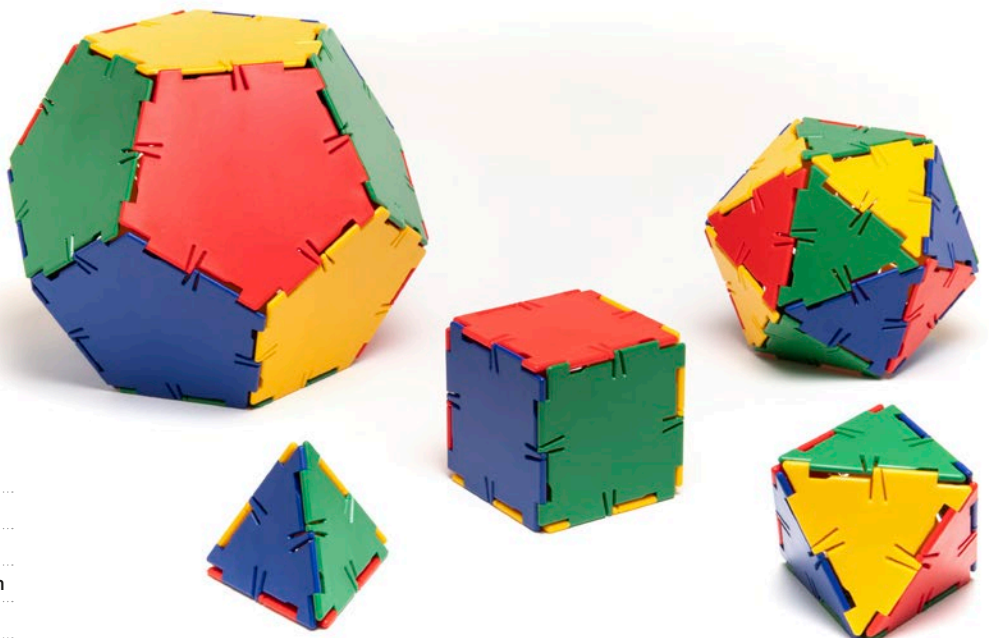


Original Polydron Platonic Solids Set

The Platonic Solids are five solids which underpin almost all of solid geometry, and a knowledge of them is critical to understanding the Archimedean Solids.

This comprehensive set enables the learner to easily construct all five of this group of shapes and so understand and feel the forms.


6 32 12  
 Square Equilateral Pentagon 100% Recyclable BPA Free



Reference	10-3000
Contents	50 pieces
L x W x H	25 x 24 x 3 cm - 9.84 x 9.45 x 1.18 in
Weight	0.61 kg - 1.34 lbs

Original Polydron School Geometry Set

Use this set to cover all the activities in the 'Mathematics with Polydron' resource book.

20	30	80	12	40	60	24	2	
Hexagon	Square	Equilateral	Pentagon	Right Angle	Isosceles	Large Equilateral	Protractor	Exploring Booklet

Reference 10-3020

Contents 266 pieces

L x W x H 46 x 36 x 13 cm – 18.11 x 14.17 x 5.12 in

Weight 5 kg – 11.02 lbs



100% Recyclable



BPA Free



Recyclable Carton



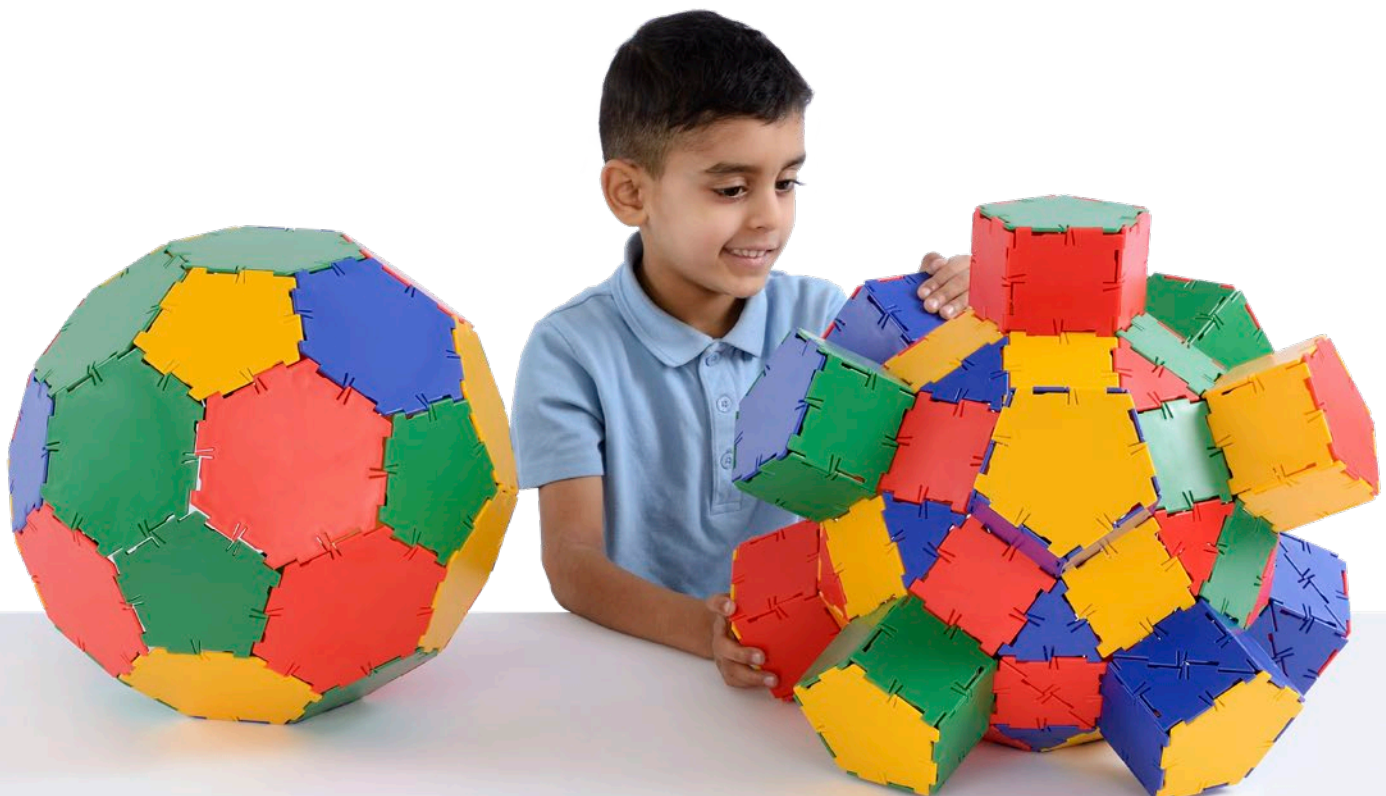
SMALL PARTS

BEST SELLER



VIDEO

266 Pieces



Original Polydron Class Set

This excellent pack contains enough Polydron for a whole class. It comes with an excellent set of teachers' notes that will help the children to explore the world of basic geometry, shape and space.

20	40	100	24			
Hexagon	Square	Equilateral	Pentagon	Exploring Booklet	100% Recyclable	BPA Free

Reference	10-3031
Contents	184 pieces
L x W x H	43 x 31 x 7 cm – 16.93 x 12.2 x 2.76 in
Weight	3.52 kg – 7.76 lbs



Original Polydron Primary Maths Set

The complete classroom set for Primary schools. Designed to be used in conjunction with the 'Mathematics with Polydron' book. Over 400 mathematical shapes.

20	40	100	24	80	60	50	30	10			
Hexagon	Square	Equilateral	Pentagon	Right Angle	Isosceles	Large Equilateral	Rectangle	Octagon	Exploring Booklet	100% Recyclable	BPA Free

Reference	10-3050
Contents	414 pieces
L x W x H	43 x 31 x 15 cm – 16.93 x 12.2 x 5.91 in
Weight	6.64 kg – 14.64 lbs

**Over 400
Pieces**



276 Pieces



Original Polydron Super Class Set

This massive 276 piece set is enough to occupy several groups of children at the same time. Supplied in 6 stunning colours and 6 shapes, a large number of 2D and 3D shapes can be built at the same time. There are 24 double-sided model building work cards with distinct colour coding – 6 with green borders show 2D shapes and 18 with red borders show 3D models.

- 60 Square
- 90 Equilateral
- 24 Pentagon
- 30 Hexagon
- 60 Isosceles
- 12 Octagon
- Work Cards



Reference	10-3500
Contents	276 pieces
L x W x H	42.5 x 23 x 10.5 cm – 16.73 x 9.06 x 4.13 in
Weight	5 kg – 11.03 lbs



Combine Original Polydron & Frameworks with Polydron Boxes

Polydron Boxes are a range of smaller sets supplied in a recyclable cardboard box. They combine Original Polydron and Frameworks to make great sets suitable for either home use or smaller classrooms.

- ▶ A choice of 3 sizes – Midi, Mega and Mighty.
- ▶ Mighty Box contains wheels.



Includes Swivel Joints



Original Polydron Midi Box

Build over 40 models with this great starter set.

12	5	20	13	24	6	
Right Angle	Square	Equilateral	Square	Equilateral	Isosceles	Guide

Reference 20-5002R

Contents 80 pieces

L x W x H 22 x 22 x 15 cm – 8.66 x 8.66 x 5.91 in

Weight 0.6 kg – 1.32 lbs

Original Polydron Mega Box

Builds over 60 models.

2	12	10	60	12	24	6	
Swivel Joint	Right Angle	Square	Equilateral	Square	Equilateral	Isosceles	Guide

Reference 20-5003R

Contents 126 pieces

L x W x H 24 x 24 x 20 cm – 9.45 x 9.45 x 7.87 in

Weight 1 kg – 2.2 lbs

All Boxes:



100% Recyclable



BPA Free



Recyclable Carton

Original Polydron Mighty Box

Includes wheels to allow you to make moving vehicles.

3	24	20	80	24	48	12	4
Swivel Joint	Right Angle	Square	Equilateral	Square	Equilateral	Isosceles	Axle Mount

4		
Stub Axle	Large Wheel	Guide

Reference 20-5005R

Contents 223 pieces

L x W x H 27 x 27 x 22 cm – 12.2 x 12.2 x 9.06 in

Weight 2.2 kg – 4.85 lbs

**BEST
SELLER**



**Includes
Wheels!**



SMALL PARTS

ORIGINAL POLYDRON

Explore light & colour with stunning designs with **Original Crystal Polydron**

- ▶ Designed to work on a light table or against a light source.
- ▶ Supplied in red, yellow, blue, green and clear.
- ▶ Pieces are made from super tough and durable engineering grade Polycarbonate.
- ▶ Includes teacher guide.
- ▶ Square piece measures 7.3 x 7.3 cm (2.88 x 2.88 inches).

Original Crystal Polydron Basic Set

This 164 piece set contains 3 key shapes (squares, equilateral triangles and pentagons) which allow children to construct their first 2D & 3D shapes with ease.

40

Square

100

Equilateral

24

Pentagon



Exploring Booklet



100% Recyclable



BPA Free



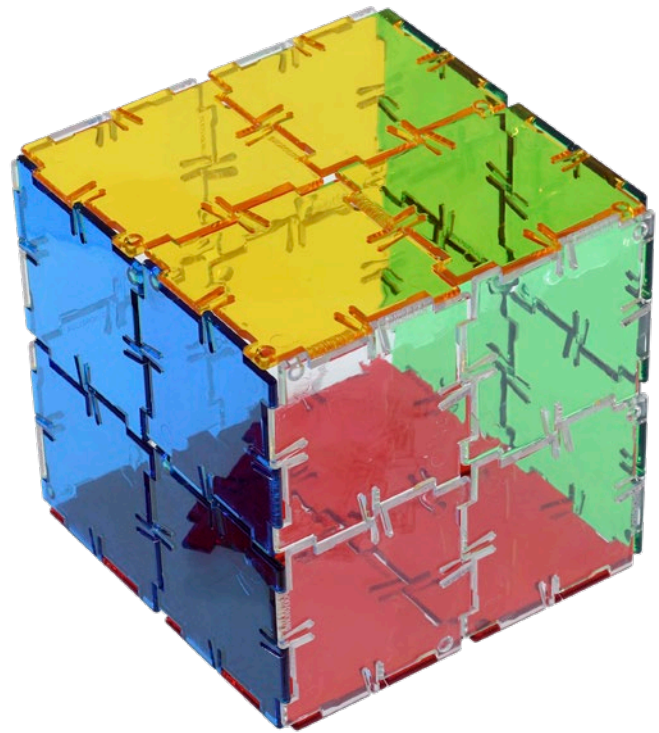
VIDEO

Reference 10-3005CRYSTAL

Contents 164 pieces

L x W x H 37 x 24 x 7 cm -
14.57 x 9.45 x 2.76 in

Weight 2.00 kg - 4.41 lbs



Super Tough Polycarbonate



Original Crystal Polydron Class Set

This bumper 184 piece set contains 4 shapes which allow you to make all types of 2D and 3D shapes such as cubes, tetrahedrons and dodecahedrons.

20

Hexagon

40

Square

100

Equilateral

24

Pentagon



Exploring Booklet



100% Recyclable



BPA Free

Reference 10-3031CRYSTAL

Contents 184 pieces

L x W x H 43 x 31 x 7 cm – 16.93 x 12.2 x 2.76 in

Weight 3.65 kg – 8.05 lbs



Original Crystal Polydron CMY Set

Rotate the cubes in your hand and delve into a kaleidoscope of wondrous colours. The Cyan, Magenta and Yellow combine into a spectrum of colours that will captivate and enchant children, as they build their knowledge of colour mixing. This is a truly amazing resource that will fascinate children as they work out how the 3 colours create such visually stunning effects.



VIDEO

48

Square



100% Recyclable



BPA Free

Reference 10-CMYCRYSTAL

Contents 48 pieces

L x W x H 19.5 x 9 x 8.5 cm –
7.68 x 3.54 x 3.35 in

Weight 1 kg – 2.21 lbs



**Experiment with
colour mixing**

Original Crystal Polydron CMY Class Set

- ▶ Rotate the cubes in your hand and delve into a kaleidoscope of wondrous colours.
- ▶ The Cyan, Magenta and Yellow combine into a spectrum of colours that will captivate and enchant children, as they build their knowledge of colour mixing.
- ▶ This is a truly amazing resource that will fascinate children as they work out how the 3 colours create such visually stunning effects.

NEW

Experiment with colour mixing



VIDEO

96

Square



100% Recyclable



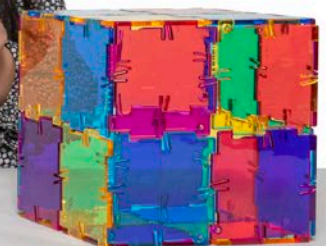
BPA Free

Reference 10-CMYCRYSTAL/SPECIAL

Contents 96 pieces

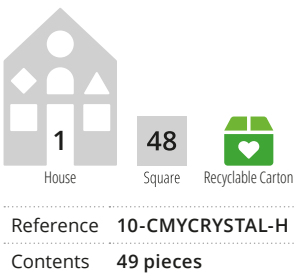
L x W x H 19.5 x 18 x 8.5 cm – 7.68 x 7.09 x 3.35 in

Weight 1.9 kg – 4.19 lbs

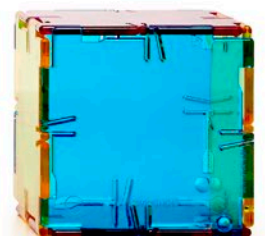
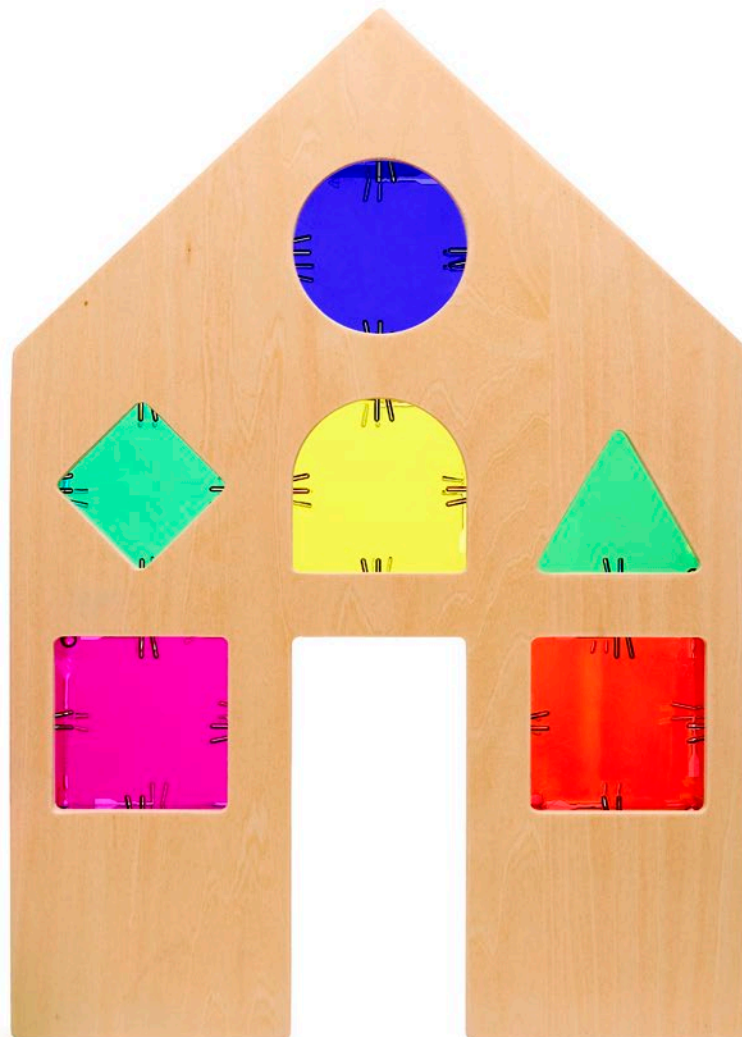

96 Pieces


Original Crystal Polydron Colour Mixing House

- ▶ Combine CMY colours for colour mixing and place cubes into the window and door spaces in the house.
- ▶ Children will love to exploring the different shaped windows.
- ▶ House is made from FSC® certified plywood.
- ▶ House measures 26.5 x 36.7 x 8.4cm (10.4 x 14.4 x 3.3 inches).

NEW


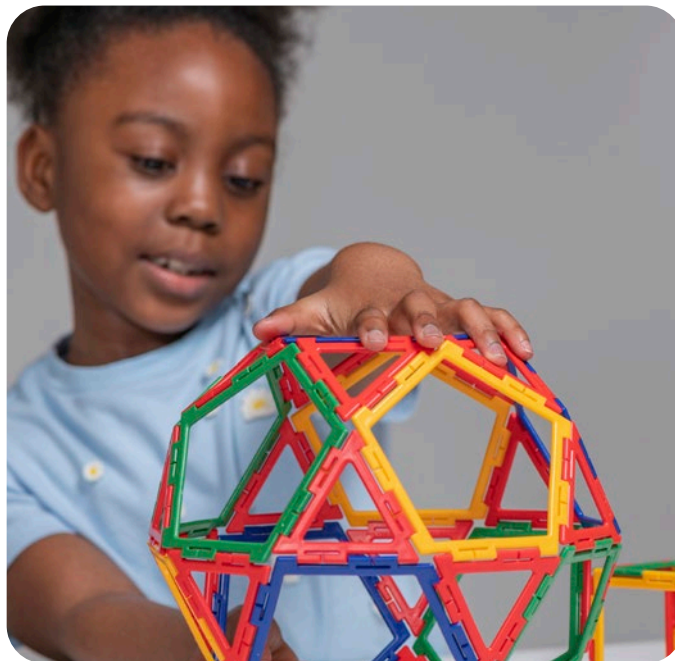
Stand not included



ORIGINAL POLYDRON

Original Polydron Frameworks: open-framed pieces of Polydron

- ▶ Pieces are lightweight and easy to connect.
- ▶ Ideal for making larger shapes and models.
- ▶ See inside of the shape, and explore the space within.
- ▶ Ideal for investigating and understanding shapes, angles, edges, vertices, planes and tangents.
- ▶ Fully supported with literature.
- ▶ Strong and versatile.
- ▶ Fully compatible with the Original Polydron range.



Original Polydron Frameworks Basic Set

Enables smaller groups to explore the three main shapes – triangles, squares and pentagons.

80	160	40			
Square	Equilateral	Pentagon	Activity Booklet	100% Recyclable	BPA Free

Reference	10-3005F	Contents	280 pieces
L x W x H	50 x 24 x 11 cm - 19.69 x 9.45 x 4.33 in	Weight	1.3 kg - 2.87 lbs


280 Pieces



Original Polydron Frameworks Multi Pack

Build structures and geometric solids.
Complete with exploring booklet.



20	80	160	40	80	40	20	20	
Hexagon	Square	Equilateral	Pentagon	Right Angle	Isosceles	Large Equilateral	Rectangle	Exploring Booklet



100% Recyclable



BPA Free

Reference 10-3043

Contents 460 pieces

L x W x H 43 x 31 x 15 cm -
16.93 x 12.2 x 5.91 in

Weight 3.27 kg - 7.21 lbs



VIDEO

460 Pieces



Original Polydron Frameworks Geometry Set

Ideal for the active classroom. Enables you to build many types of nets, prisms, cuboids and pyramids and cover all the activities in the 'Mathematics with Polydron' Book.

Reference 10-3320

Contents 268 pieces

L x W x H 46 x 36 x 13 cm – 18.11 x 14.17 x 5.12 in

Weight 2.88 kg – 6.35 lbs

20 Hexagon 30 Square 80 Equilateral 12 Pentagon 40 Right Angle 60 Isosceles 24 Large Equilateral 2 Protractor Exploring Booklet



100% Recyclable



BPA Free



Recyclable Carton

FREE downloadable teachers' resources & projects are available



268 Pieces



SMALL PARTS



Original Polydron Frameworks Platonic Solids Set

A great student set. Build and explore the five Platonic Solids all at once.

Build all 5
Platonic
Solids

6

Square

32

Equilateral

12

Pentagon



100% Recyclable



BPA Free

Reference 10-3044

Contents 50 pieces

L x W x H 25 x 24 x 4 cm – 9.84 x 9.45 x 1.57 in

Weight 0.23 kg – 0.51 lbs



Original Polydron Frameworks Class Set

Ideal for group use. Equilateral triangles, hexagons, squares & pentagons, with exploring booklet.

30

Hexagon

80

Square

160

Equilateral

40

Pentagon



Exploring Booklet



100% Recyclable



BPA Free

Reference 10-3031F

Contents 310 pieces

L x W x H 43 x 31 x 15 cm –
16.93 x 12.2 x 5.91 in

Weight 2.38 kg – 5.25 lbs

310 Pieces



Original Polydron Frameworks Prism & Pyramid Set

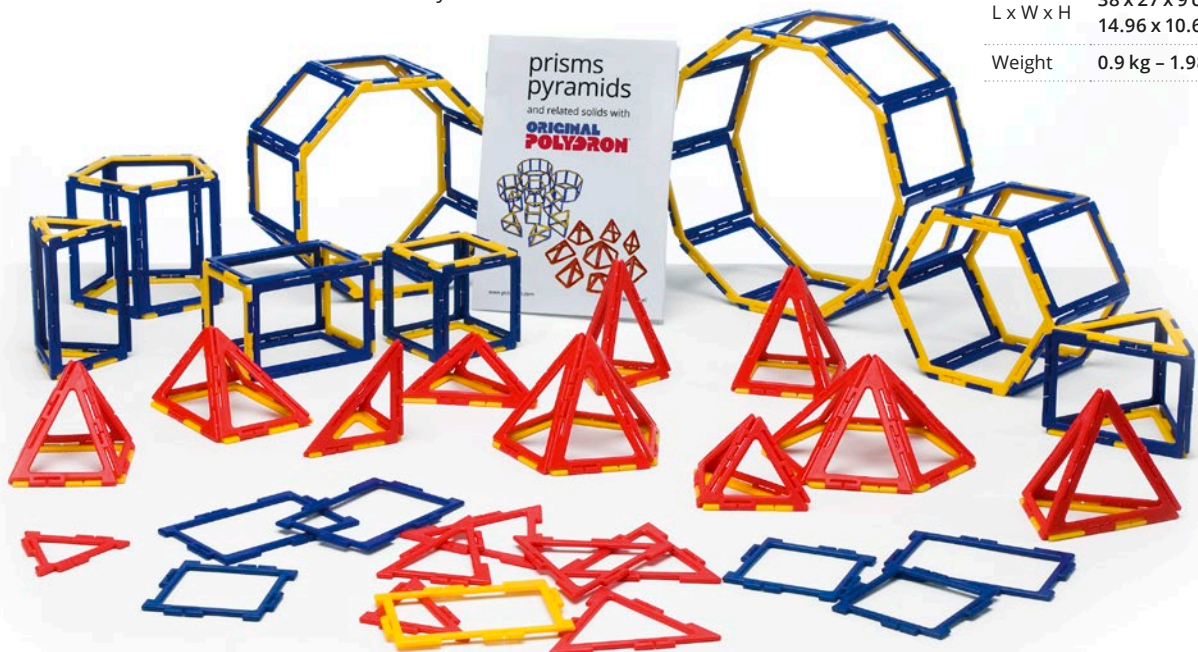
This comprehensive set includes the Octagon and Decagon shapes and is colour coded for easy use. A full set of teachers notes is included with many exercises and extension ideas.

Reference 10-3067F

Contents 121 pieces

L x W x H 38 x 27 x 9 cm –
14.96 x 10.63 x 3.54 in

Weight 0.9 kg – 1.98 lbs



9

Equilateral

10

Right Angle

26

Isosceles

8

Root 2

14

Square

44

Rectangle

3

Pentagon

3

Hexagon

2

Octagon

2

Decagon



Book



100% Recyclable



BPA Free

Archimedean Solids

The Archimedean Solids have been known to mathematicians for over 2000 years

- ▶ These sets make the 13 Archimedean Solids, each of which has fascinating properties.
- ▶ Children can use a tutorial which is designed to support teachers and encourage both use of the sets and interest in these remarkable solids.
- ▶ Both sets encourage exploration, visualisation and an appreciation of the contributions of solid geometry to architecture and to our understanding of science and engineering.

Original Polydron Frameworks Archimedean Solids Standard Set

Construct each of the 13 Archimedean Solids.

80	30	12	20	6	12		
Equilateral	Square	Pentagon	Hexagon	Octagon	Decagon	Work Cards	Book

Reference 10-5000FS

Contents 160 pieces

L x W x H 43 x 31 x 7 cm – 16.93 x 12.2 x 2.76 in

Weight 1.8 kg – 3.97 lbs



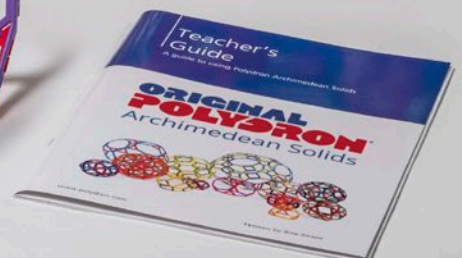
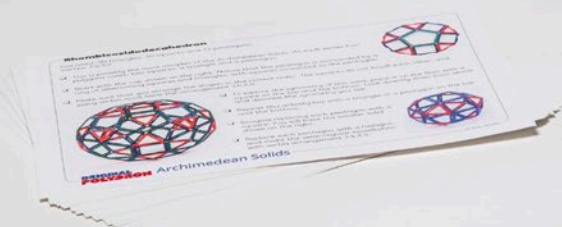
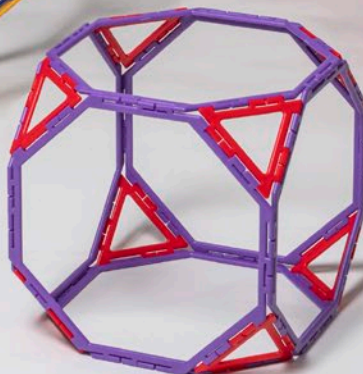
100% Recyclable

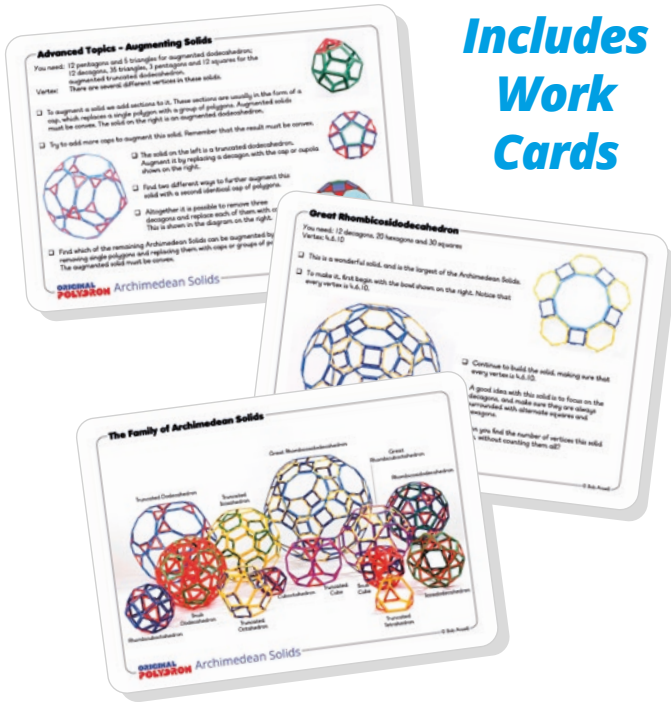


BPA Free



160 Pieces





**Includes
Work
Cards**

AS FEATURED IN THE

Ri Royal Institution Christmas Lectures

as a clear means of demonstrating the **Archimedean Solids**

Scan the code to view the video:

**Original Polydron Frameworks
Archimedean Solids Class Set**

Build and explore the 13 Archimedean Solids all at once.

- 200 Equilateral
- 108 Square
- 48 Pentagon
- 60 Hexagon
- 12 Octagon
- 24 Decagon
- Work Cards
- Book

Reference	10-5000FL
Contents	452 pieces
L x W x H	43 x 31 x 22.5 cm – 16.93 x 12.2 x 8.86 in
Weight	4.1 kg – 9.04 lbs



452 Pieces



ORIGINAL POLYDRON

Create your own spheres, cylinders & cones with **Original Polydron Sphera**

- ▶ Ideal for understanding spherical models.
- ▶ A variety of sets for small and larger groups of children.

Original Polydron Sphera Starter Set

A great way to understand spherical models, build a sphere, hemisphere, cylinder, half cylinder, cone and half cone – all at once.

12 Sphere 22 Quadrant 6 Cone 6 Cylinder 2 Square 2 Right Angle Exploring Booklet



100% Recyclable BPA Free

Reference SP-3001

Contents 50 pieces

L x W x H 24 x 29 x 8 cm – 9.45 x 11.42 x 3.15 in

Weight 0.84 kg – 1.85 lbs



Original Polydron Sphera Class Set

An ideal class set to build over 16 different spherical models together.

36

Sphere

72

Quadrant

16

Cone

12

Cylinder

20

Square

40

Right Angle



Exploring Booklet



100% Recyclable



BPA Free

Reference SP-3003

Contents 196 pieces

L x W x H 43 x 32 x 15 cm -
16.93 x 12.6 x 5.91 in

Weight 3.7 kg - 8.16 lbs



196 Pieces



VIDEO

Includes Exploring Booklet



ORIGINAL POLYDRON

What the experts say:

"A wonderful hands-on tool with connections to math, science and history... a quality product."

Learning Magazine USA.

Recreate iconic bridges from around the world with **Original Polydron Bridges**

- ▶ Build and test several types of bridge designs including some of the most recognisable constructions.
- ▶ 12 comprehensive work cards and lesson plans provide step by step instructions.
- ▶ Work cards cover bridges such as truss, suspension, cantilever, drawbridge, cablestay, swing and bascule.

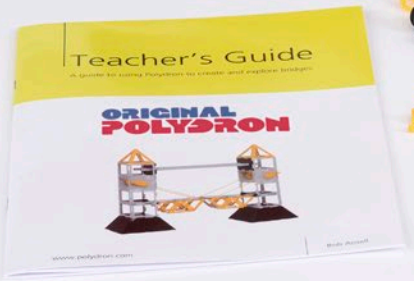
Original Polydron Bridges Set

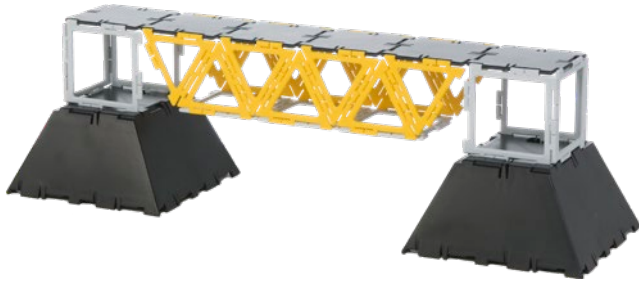
Build any of the eight bridges, one at a time.



22 Equilateral	20 Right Angle	4 Isosceles	4 Large Equilateral	26 Square	10 Rectangle	8 Square	4 Strut 330	2 Strut 110	2 Strut 80	4 Pulley	2 Handle
4 Square Hole	2 Rectangle 2 Holes	2 Hinge	8 2 Squares	4 Eyelet	2 Plinth	4 String	2 Suspension String	2 Work Cards			

Reference	10-9010
Contents	134 pieces
L x W x H	43 x 31 x 15 cm – 16.93 x 12.2 x 5.91 in
Weight	2.6 kg – 5.73 lbs





Original Polydron Bridges Class Set

Build all of the eight bridges, at the same time.

Reference	10-9030
Contents	322 pieces
L x W x H	43 x 31 x 30 cm – 16.93 x 12.2 x 11.81 in
Weight	6 kg – 13.23 lbs

68 Equilateral
 56 Right Angle
 4 Isosceles
 4 Large Equilateral
 70 Square
 14 Rectangle
 44 Square
 8 Strut 330
 2 Strut 110
 3 Strut 80
 4 Pulley
 2 Handle

4 Square Hole
 2 Rectangle 2 Holes
 2 Hinge
 8 2 Squares
 6 Eyelet
 15 Plinth
 4 String
 2 Suspension String
 Work Cards
 100% Recyclable
 BPA Free



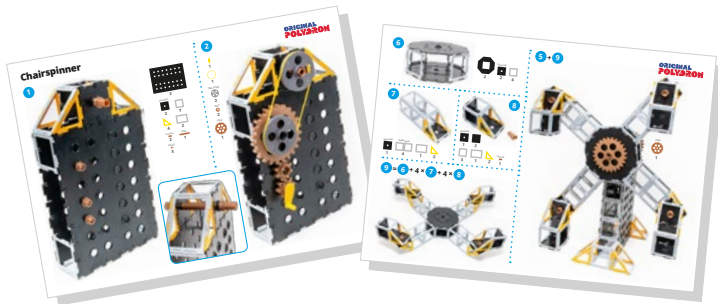
Includes Work Cards



ORIGINAL POLYDRON

Taking design & engineering to the next level with **Original Polydron Engineer**

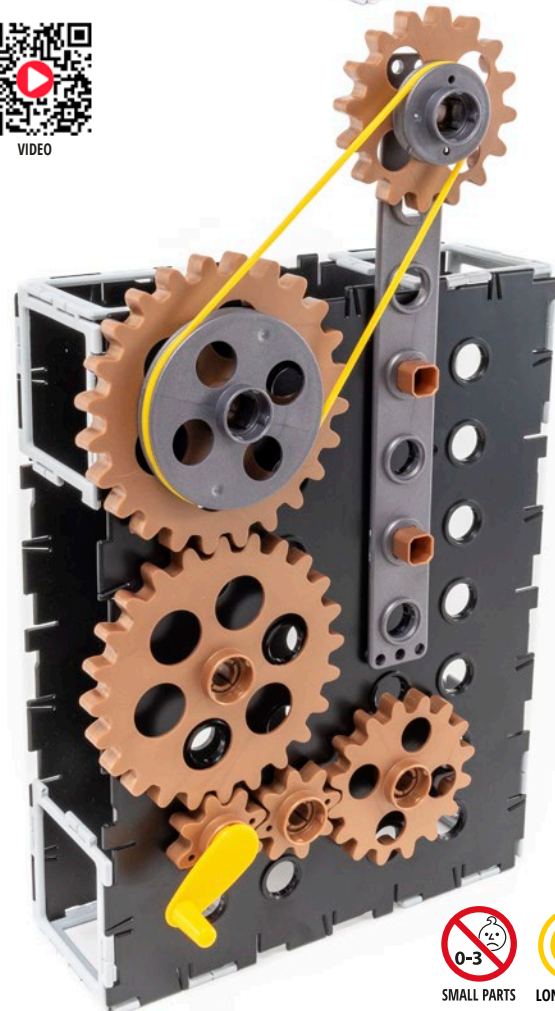
- ▶ The gears are made with simple ratios (8, 16 and 24 teeth), so real world applications can be explored.
- ▶ Totally unique D & T product that provides clear links between maths and engineering.
- ▶ Lots of engineering components including stackable gears and pulleys.
- ▶ Fully tested by schools and experts.



Includes Improved Work Cards



STEM.ORG
AUTHENTICATED™
EDUCATIONAL PRODUCT ✓



What the experts say:
"A superior educational building kit."

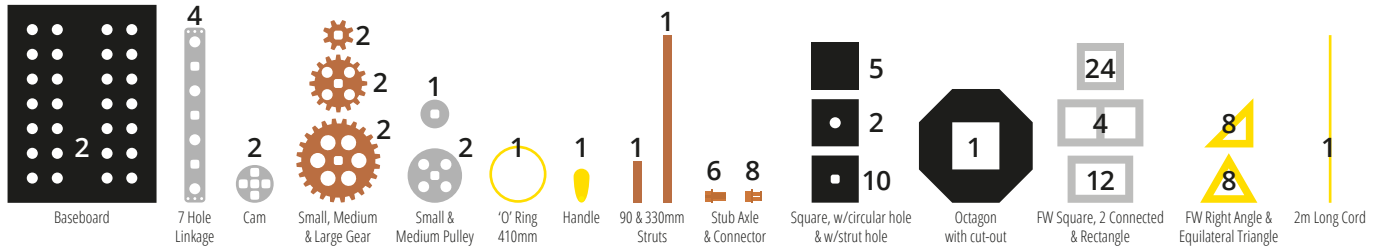
Parents Choice organisation, USA.

"It's surprisingly difficult to find gear wheels with teeth in simple ratios. Polydron have such a kit... and you can stack wheels to produce gear trains."

Paul Stephenson, The Magic Mathsworks.

Original Polydron Engineer Set

Contains 110 pieces. Build the following 5 models: Cable Car, Gear Toy 1, Gear Toy 2, Chairspinner, Chairplane.

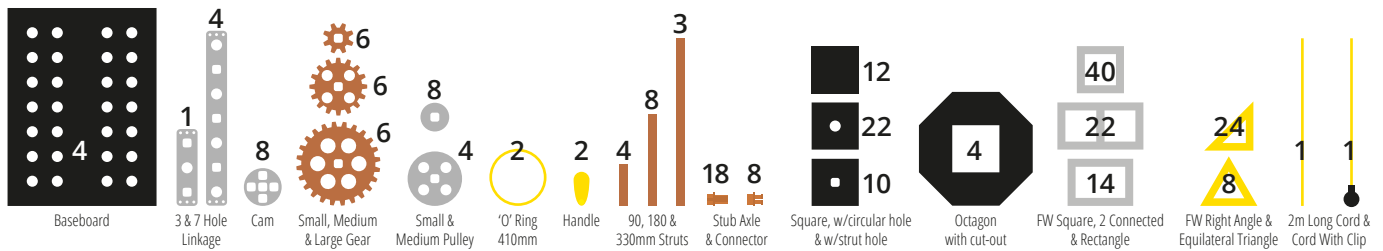


Reference	10-7050	Contents	110 pieces
L x W x H	43 x 31 x 7 cm - 16.93 x 12.2 x 2.76 in	Weight	2.3 kg - 5.07 lbs

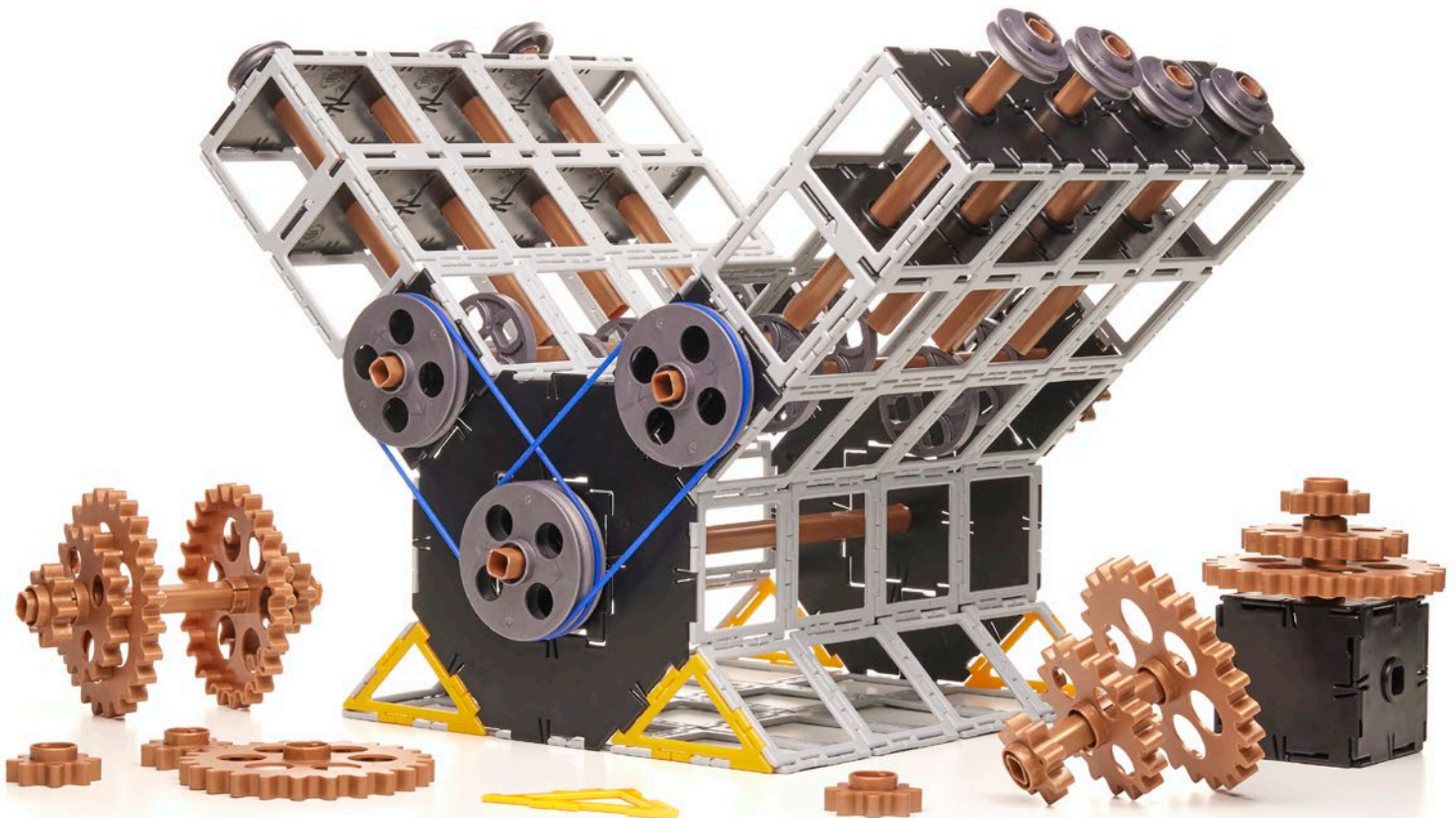


Original Polydron Engineer Class Set

Contains 250 pieces. Build the following 14 models: Cable Car, Gear Toy 1, Gear Toy 2, Chairspinner, Chairplane, Big Gear Toy 1, Big Gear Toy 2, Four Cylinder Engine, Gearbox, Crane, Gyro, V8 Engine, Clock, Vertigo. 3 to 4 models can be made at a time.



Reference	10-7060	Contents	250 pieces
L x W x H	43 x 31 x 23 cm - 16.93 x 12.2 x 9.06 in	Weight	4.5 kg - 9.92 lbs



ORIGINAL POLYDRON

Original Polydron STEM: a brilliant foundation for higher level STEM learning

- ▶ Amazing 486 piece set including a wide variety of pieces.
- ▶ Explains STEM principles such as storing and releasing energy.
- ▶ Work cards covering 3 stages: Principles, Projects & Advanced Projects.
- ▶ Comprehensive 12 page teacher guide.
- ▶ Additional materials can be used.



486 Pieces



Original Polydron STEM Set

An amazing new set which supports the principles of STEM and gives a brilliant foundation for higher level STEM learning. Follows a step by step approach with open ended extension activities for children to put into practice through construction what they have learned through the principles of STEM.



4 Baseboard

4 Octagon with cut-out

8 Equilateral Triangle & Triangle with peg

30 Square, Square with circular hole & Square with strut hole

20 Square

4 Rectangle & Rectangle with 2 circular holes

60 Frameworks Square, Double Square & Rectangle

20 Frameworks Square, Double Square & Rectangle

20 Frameworks Square, Double Square & Rectangle

20 FW Equilateral, Isosceles & Right Angle Triangle

2 Frameworks Hexagon

10 Crystal Squares

16 Crystal Triangles

2 Crystal Hexagon

90, 120, 180, 250 & 320mm Struts

8, 5, 5 Small, Medium & Large Gears

5 Bevel Gear

5 Small & Medium Pulleys

1, 1, 1 200, 270 & 317mm 'O' Rings

5 3 & 7 Hole Linkages

6 Big Wheel

8 Small Wheel

15 Stub Axle

10 Connector

6 Cam

2 Handle

2 Propellor

60 Chain Link

1 3m String

Work Cards

Guide



Children develop a deep understanding of the principles first before moving onto projects

Reference 10-7070 Contents 486 pieces

Work Cards Principles

6 work cards showing the principles of using the different engineering components included in this set.

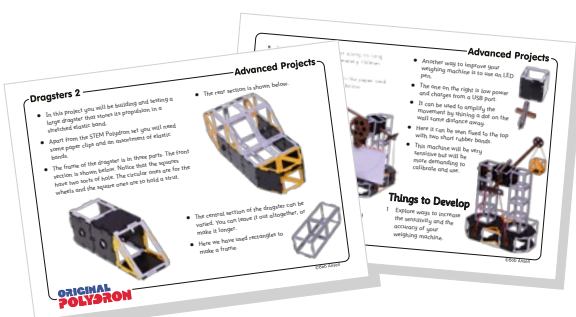
Projects

13 double-sided work cards showing how to use the Principles to create amazing models such as engines, cranes and fairground rides and many more.



Advanced Projects

3 double-sided work cards for the more advanced student who has already learned all the principles and successfully built some of the models in the Project work cards. These Advanced Projects include building a self-propelled dragster and a working weighing machine.





DESIGNED
IN THE UK



Should you require further information please contact us:

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