

POLYDRON[®]

2024



POLYDRON®

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Welcome to our catalogue

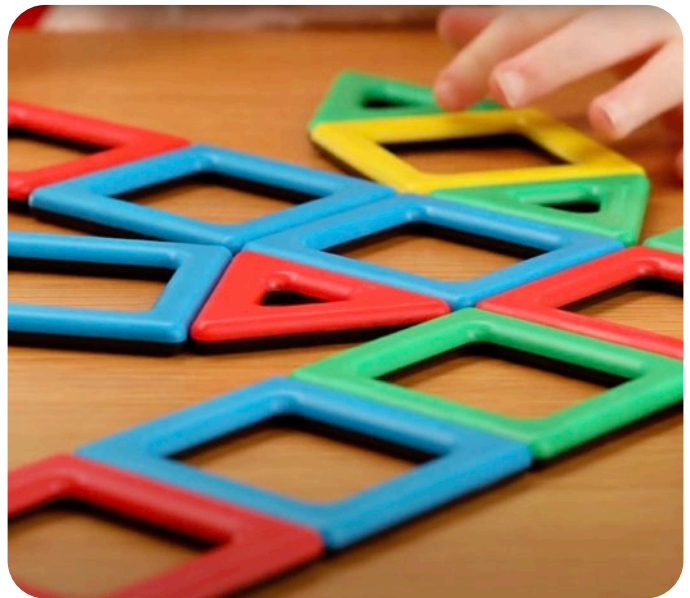
Polydron are delighted to introduce new products in both our early years and curriculum sections in 2024. We are particularly proud of our new translucent sets for My First Octoplay (page 7) and Crystal Polydron (page 55). For our slightly older children, we have created some wonderful 2D & 3D model work cards with stunning colours (page 52). Our vast range is ideal for nurseries, kindergartens, primary schools, childminders and home learning.



Cyril Dowling
Sales Director



Richard Hardstaff
Director



Contact

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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 hannah.hoskins@polydron.com

Reasons to choose Polydron?

Innovative & Award Winning Products



Distribution hubs are now fully operational in the UK, Europe and the USA to reduce our carbon footprint and save on costs

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

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

Resources for lifelong learning: engages all ages, at every stage of development

Polydron & The Environment

Look out for these logos next to our products



Safety Symbols



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

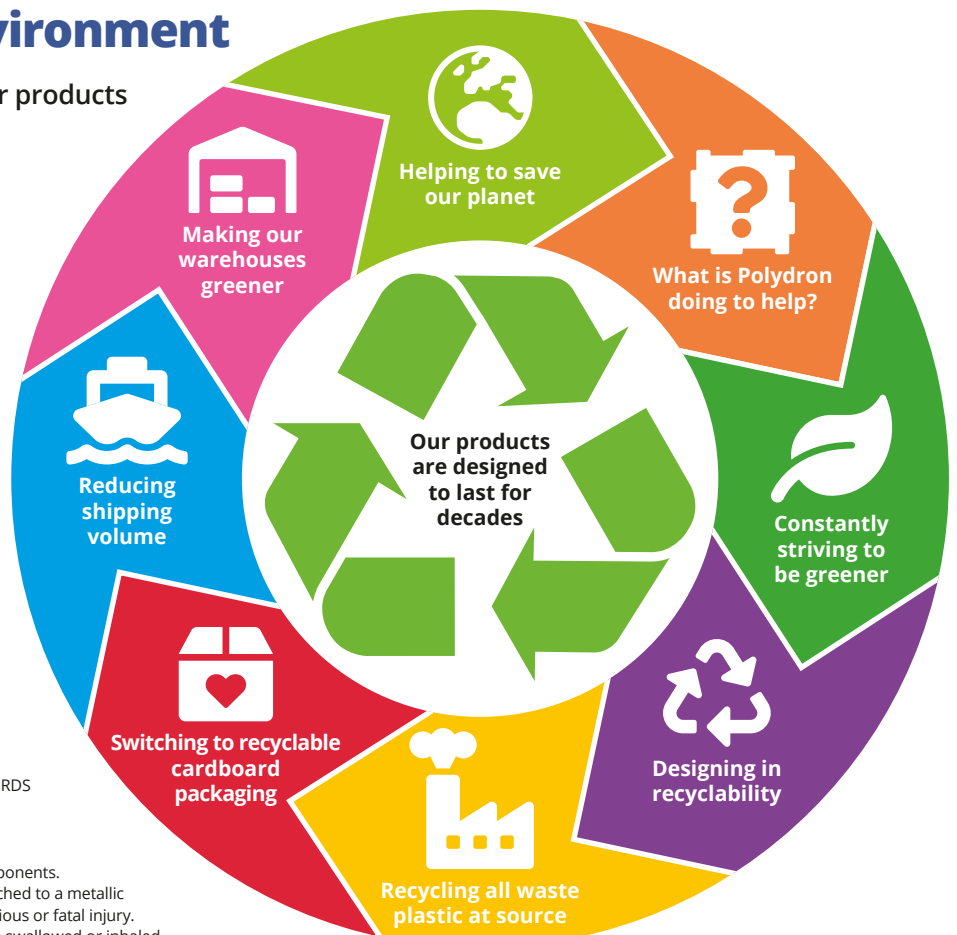


LONG CORDS
STRANGULATION HAZARD DUE TO LONG CORDS



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!



Translucent My First Octoplay: [page 7](#)



Original Polydron Super Class Set: [page 52](#)



Crystal Polydron CMY Set: [page 55](#)

Check out our socials for all our latest news!



polydronuk



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polydronuk



polydronuk



polydronvideos



polydron

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.
- ▶ Cleaning Method: Sterilize with alcohol based sanitizer.

Polydron KinderMag Set

48 piece set ideal for smaller groups of children 12 months+.

24

Square

24

Triangle



BPA Free

Recyclable
Carton

Scan to view online

57-5000

48 Pieces

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



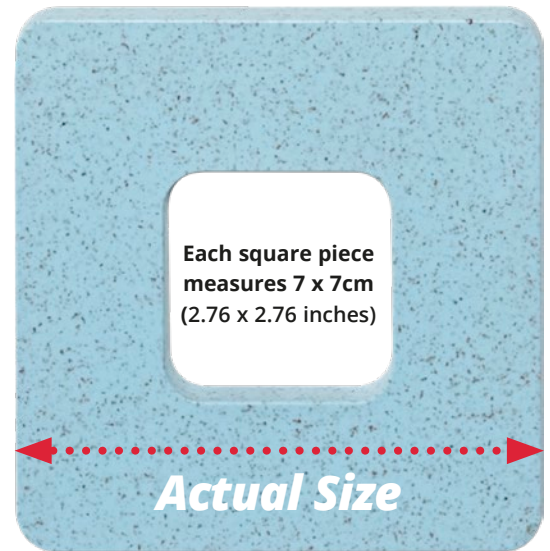
BPA Free

Recyclable
Carton

Scan to view online

57-5010

96 Pieces



**96 Piece
Set**



Translucent Polydron KinderMag Set

48 piece set ideal for smaller groups of children.

24

Square

24

Triangle



BPA Free



Recyclable
Carton



Scan to view online

57-5000T

48 Pieces

*Perfect
for light
play!*





**Designed
for age
12 months+**

**Translucent Polydron
KinderMag Class Set**

Ideal for larger groups of children.

48 Square	48 Triangle	BPA Free	Recyclable Carton	
				Scan to view online

57-5010T

96 Pieces

creative
PLAY AWARDS 2023

WINNER



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 12cm (4.72 x 4.72 inches).
- ▶ Cleaning Method: Hand wash with mild sterilizing detergent.



My First Octoplay Set



81-1010

21 Pieces

100%
recycled
material

"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



My First Octoplay Class Set



81-1020

42 Pieces

**4 natural
colours**

Pole can be used for building models & storing the pieces

NEW



Translucent My First Octoplay Set

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



Scan to view online

81-1010T

21 Pieces

Translucent My First Octoplay Class Set

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



Scan to view online

81-1020T

42 Pieces

4 vibrant translucent colours

NEW



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).
- ▶ Cleaning Method: Sterilize with alcohol based sanitizer.



My First Polydron

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

10	10	10	10				
Triangle	Square	Triangle with Hole	Square with Hole	100% Recyclable	BPA Free	Recyclable Carton	Scan to view online

95-3000	1.5 kg 3.31 lbs	34 ^L x 23.5 ^W x 6.75 ^H cm 13.39 ^L x 9.26 ^W x 2.66 ^H in	40 Pieces
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40 Pieces



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.



5 Square with Hole	13 Square with 4 Holes	18 Gear	Work Cards	100% Recyclable	BPA Free	Recyclable Carton	Scan to view online
95-3200	1.4 kg – 3.08 lbs	37.5 ^L x 25.5 ^W x 7.5 ^H cm 14.76 ^L x 10.03 ^W x 2.95 ^H in	36 Pieces				

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



Gear Estimation

- Construct this tower.

Base Detail

Winding Tower

- Create the net.
- Make the tower.

Question: Can you link the 2 gears together by adding 14 gears?

Tower

- Create the net.
- Make the tower.

Question: What is the largest quantity of gears you can add to this model, adding them to only one side of the tower?

Inverted V Model

- Create the net.
- Make the model.
- Add 4 more squares with gear holes.
- Add 2 gears.

Question: Join the 2 gears together by adding extra gears. How many different ways can this be done? What are the smallest and largest number of gears that are required?

Gear Square

Create a cube using 1 open frame square and 5 squares with 4 holes as shown in steps 1 and 2 below. Add 8 gears.

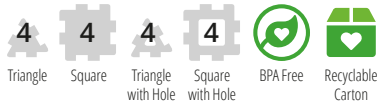
Question: How many gears do you think can fit onto this cube? Will they all turn in the same direction?

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.



Scan to view online



95-3400 0.75 kg
1.65 lbs 24.5^L x 20^W x 5^H cm
10^L x 7.87^W x 1.96^H in **16 Pieces**



Reversible Pieces



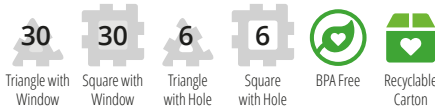
My First Polydron Windows Starter Set

Supplied in 5 colours, these windows help children explore light, colour mixing and construction in a fun and engaging way. Spectacular against a light source.

My First Polydron Windows Class Set



Scan to view online



95-3110 2.6 kg
5.73 lbs 34^L x 23.5^W x 10.5^H cm
13.38^L x 9.25^W x 4.13^H in **72 Pieces**



95-3100 0.97 kg
2.2 lbs 34^L x 23.5^W x 4.5^H cm
13.38^L x 9.25^W x 1.77^H in **24 Pieces**

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.
- ▶ Cleaning Method: Hand wash with mild sterilizing detergent.



VIDEO ON
WEBSITE



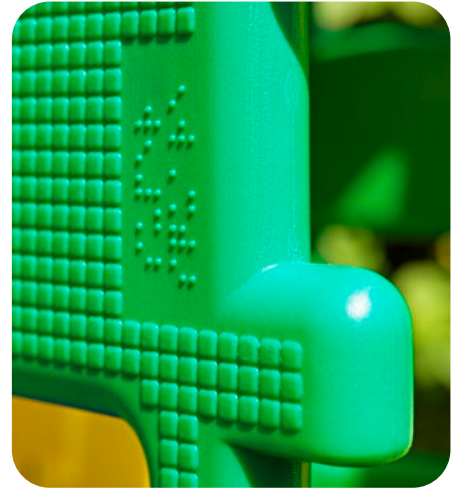
Giant Polydron Set

20	20				
Square	Equilateral	Guide	100% Recyclable	BPA Free	Scan to view online
70-7000	3.2kg 7.05 lbs	47 ^L x 47 ^W x 23 ^H cm 18.5 ^L x 18.5 ^W x 9.06 ^H in	40 Pieces		

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)



Giant Polydron Class Set

Ideal for a whole class to use
at the same time.

**INCLUDES
BRAILLE**

40

Square

40

Equilateral



Guide



100% Recyclable



BPA Free



Scan to view online

70-7010

7.6 kg

16.76 lbs

26^L x 47^W x 43^H cm10.24^L x 18.5^W x 16.93^H in

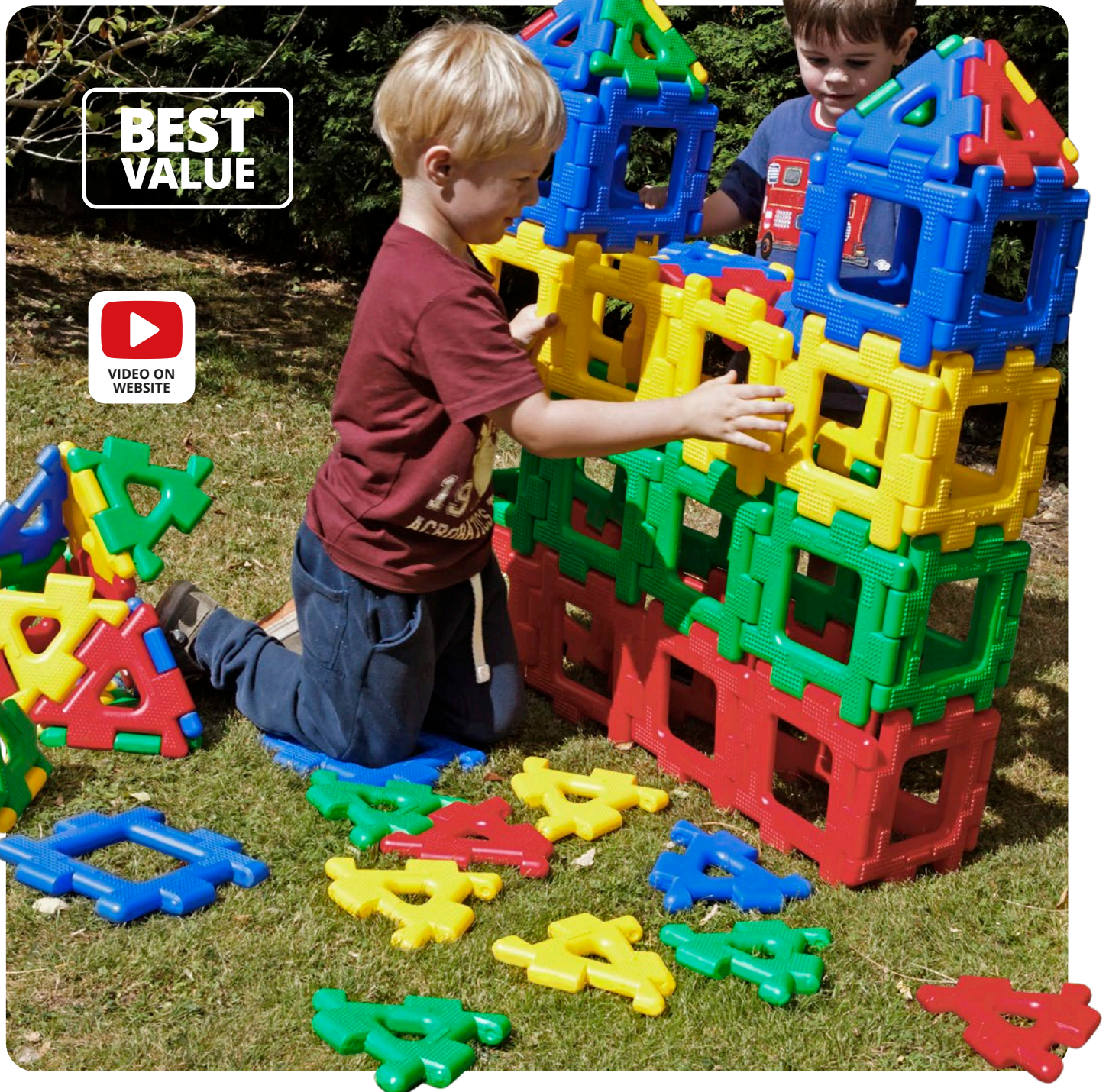
80

Pieces

**BEST
VALUE**



VIDEO ON
WEBSITE



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.

30

Square

30

Equilateral



Guide



100% Recyclable



BPA Free



Scan to view online

70-7016T

60 Pieces



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 Storage Bag



Each bag is large enough to hold a complete Giant Polydron set. Suitable for Giant Polydron and Giant Octoplay.

70-7200



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.

Square	Equilateral	Gear Square	Small Wheel	Big Wheel	Guide	100% Recyclable	BPA Free	Scan to view online

70-7400	4.6 kg 10.14 lbs	42 ^L x 42 ^W x 40 ^H cm 16.54 ^L x 16.54 ^W x 15.75 ^H in	32 Pieces
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Big Wheels are 36cm (14.17 inches) across!

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.

Gear Square	Small Wheel	Big Wheel	100% Recyclable	BPA Free	Scan to view online

70-7410	1.66 kg 3.66 lbs	43 ^L x 43 ^W x 30 ^H cm 16.93 ^L x 16.93 ^W x 11.81 ^H in	8 Pieces
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Make more models with add-on wheels or extra sets



SUPER VALUE

Giant Polydron Super Value Set



Scan to view online

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.

80

Square

80

Equilateral



Guide



100% Recyclable



BPA Free

70-7025

160 Pieces



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.



Scan to view online

16

Square

8

Equilateral

30

Gear Square

16

Window

2

Door



Guide



100% Recyclable



BPA Free

70-7060

6.8 kg
14.99 lbs

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

72 Pieces



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.



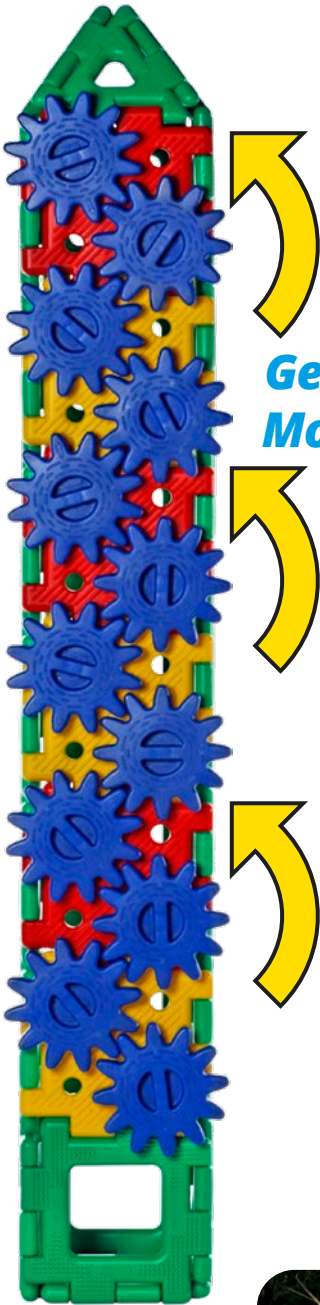
STEM.ORG
AUTHENTICATED™
EDUCATIONAL PRODUCT

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

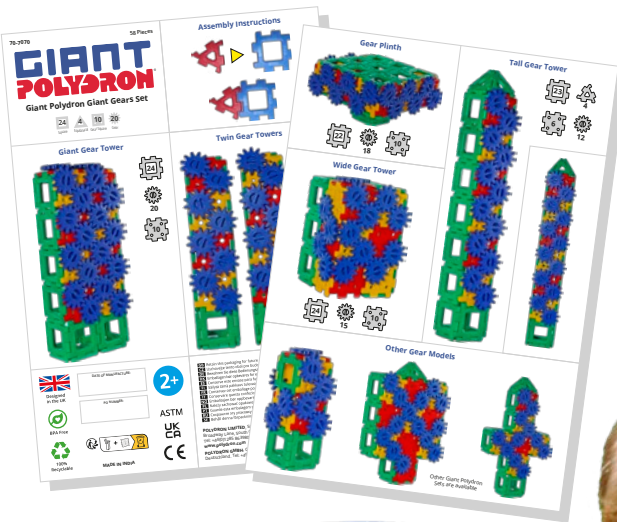
70-7070	5 kg 11.02 lbs	60 ^h x 41 ^w x 22 ^h cm 23.62 ^h x 16.14 ^w x 8.66 ^h in	58 Pieces
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Scan to view online



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.

20	20	12				
Square	Equilateral	Pentagon	Guide	100% Recyclable	BPA Free	Scan to view online

70-7056	4.8 kg 10.58 lbs	46 ^L x 46 ^W x 34 ^H cm 18.11 ^L x 18.11 ^W x 13.39 ^H in	52 Pieces
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***Fits perfectly with
Giant Polydron!***

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.

12	12	12			
Sphere	Quadrant	Cylinder	100% Recyclable	BPA Free	Scan to view online

70-7500	4.8 kg 10.63 lbs	46 ^L x 46 ^W x 38 ^H cm 23.62 ^L x 16.54 ^W x 11.42 ^H in	36 Pieces
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VIDEO ON
WEBSITE

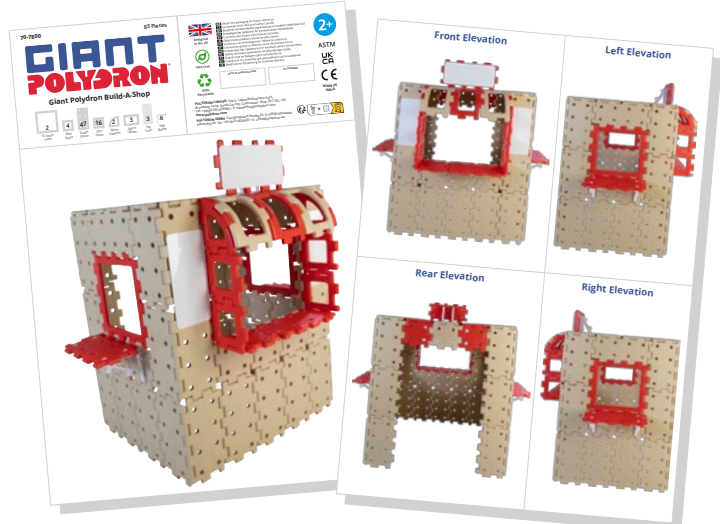
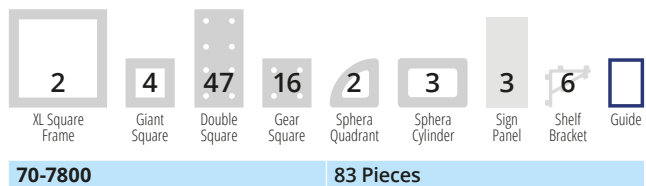


Scan to view online



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.



XL POLYDRON

What the experts say:

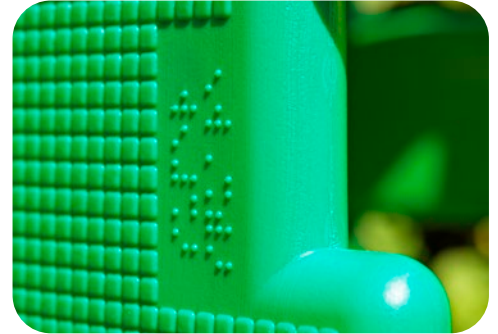
"Finding Braille on toys designed for general use has the potential to improve the self-esteem of a visually impaired child, particularly when sharing these toys with sighted peers in a mainstream setting."

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 16).
- ▶ Square measures 40.5 x 40.5cm (15.94 x 15.94 inches).
- ▶ Cleaning Method: Hand wash with mild sterilizing detergent.

**INCLUDES
BRAILLE**









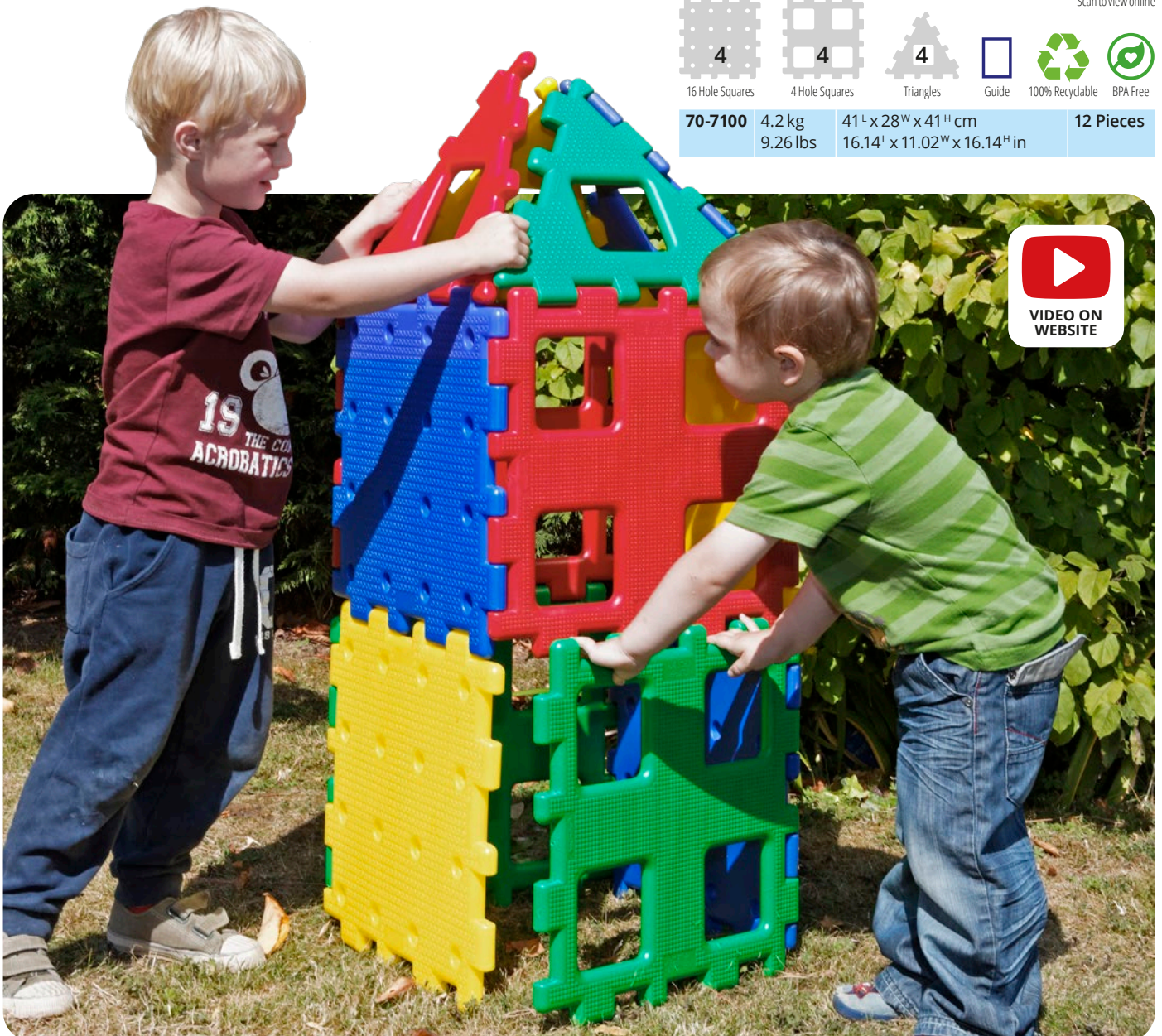
XL Polydron Set 1

A basic starter set to introduce XL Polydron.



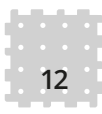
Scan to view online

 4	 4	 4			
16 Hole Squares	4 Hole Squares	Triangles	Guide	100% Recyclable	BPA Free
70-7100	4.2 kg 9.26 lbs	41 ^L x 28 ^W x 41 ^H cm 16.14 ^L x 11.02 ^W x 16.14 ^H in	12 Pieces		



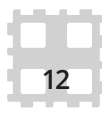
XL Polydron Set 3

A great set to inspire the class.



12

16 Hole Squares



12

4 Hole Squares



12

Triangles



Guide



100% Recyclable



BPA Free

70-7110

14.05 kg
30.97 lbs84^L x 43^W x 42^H cm
33.07^L x 16.93^W x 16.54^H in

36 Pieces



**BEST
SELLER**



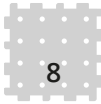
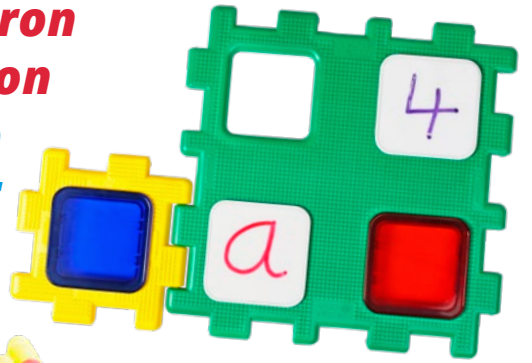
XL Polydron Set 2

Build towers and larger constructions.

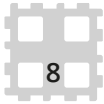


Scan to view online

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



16 Hole Squares



4 Hole Squares



Triangles



Guide



100% Recyclable



BPA Free

70-7105	9.65 kg 21.27 lbs	59 ^L x 43 ^W x 42 ^H cm 23.23 ^L x 16.93 ^W x 16.54 ^H in	24 Pieces
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XL Polydron Natural Colours Set 1

A basic starter set to introduce XL Polydron.



4

16 Hole Squares



4

4 Hole Squares



4

Triangles



Guide



100% Recyclable



BPA Free

70-71200

4.2 kg
9.26 lbs41⁺ x 28^w x 41^h cm
16.14⁺ x 11.02^w x 16.14^h in

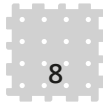
12 Pieces



Scan to view online

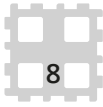
XL Polydron Natural Colours Set 2

Build towers and larger constructions.



8

16 Hole Squares



8

4 Hole Squares



8

Triangles



Guide



100% Recyclable



BPA Free

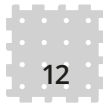


Scan to view online

70-71205	9.65 kg 21.27 lbs	59 ^L x 43 ^W x 42 ^H cm 23.23 ^L x 16.93 ^W x 16.54 ^H in	24 Pieces
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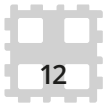
XL Polydron Natural Colours Set 3

A great set to inspire the class.



12

16 Hole Squares



12

4 Hole Squares



12

Triangles



Guide



100% Recyclable



BPA Free



Scan to view online

70-71210	14.05 kg 30.97 lbs	84 ^L x 43 ^W x 42 ^H cm 33.07 ^L x 16.93 ^W x 16.54 ^H in	36 Pieces
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Build your own dome



XL Polydron Geo Dome

Create a stunning dome, ball or a variety of different geometric shapes with this 62 piece set. Children and adults can work in tandem to create this amazing structure. The dome consists of 3 shapes – squares, pentagons and triangles. Pieces are large and chunky, with the square measuring approximately 40cm. Explore geometry, construction and interactive play with this set. Children can also simply throw sheets over it to create a den!



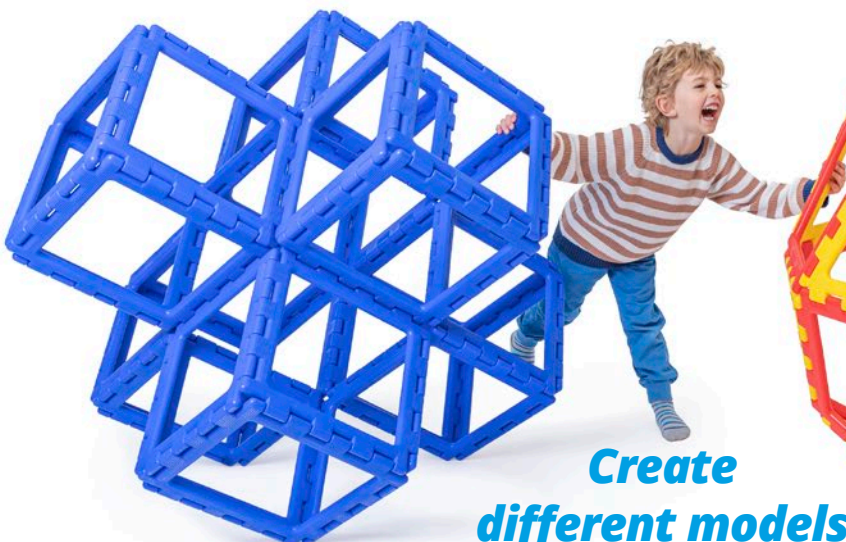
70-7130

62 Pieces



Multifunctional use...

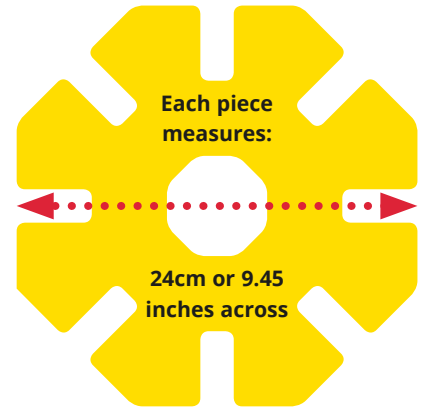
Build a ball



Create different models

GIANT OCTOPLAY

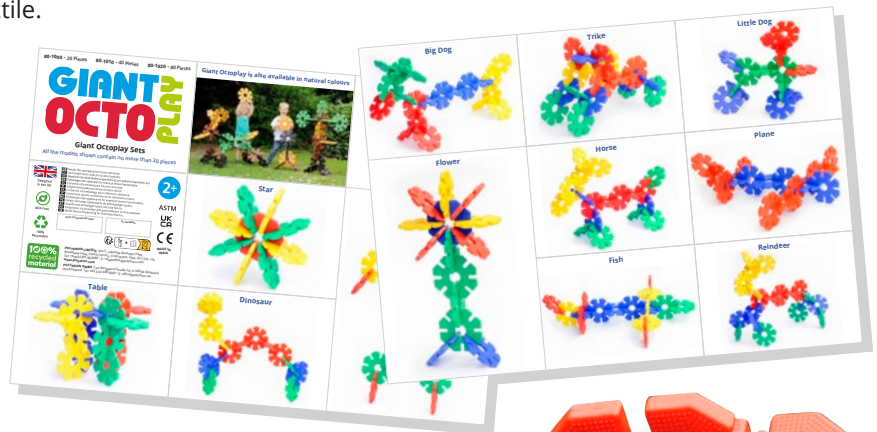
100%
recycled
material



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.
- ▶ Cleaning Method: Hand wash with mild sterilizing detergent.

Don't wait, 'GO' create!



Giant Octoplay 20 Pieces

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



Guide



100% Recyclable



BPA Free



Scan to view online

*All sets include
a model guide*

80-1000	3.15 kg 6.94 lbs	50 ^L x 25 ^W x 25 ^H cm 19.69 ^L x 9.84 ^W x 9.84 ^H in	20 Pieces
---------	---------------------	---	--------------





Giant Octoplay 40 Pieces

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



Scan to view online

40
Guide 100% Recyclable BPA Free

80-1010	6 kg 13.23 lbs	49 ^L x 47 ^W x 25 ^H cm 19.29 ^L x 18.5 ^W x 9.84 ^H in	40 Pieces
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Giant Polydron Storage Bag
See page 14

Giant Octoplay 80 Pieces

Allows larger, more complex models to be built, or the construction of multiple models at once.



Scan to view online

80
Guide 100% Recyclable BPA Free

80-1020	12.56 kg 27.69 lbs	50 ^L x 50 ^W x 47 ^H cm 19.69 ^L x 19.69 ^W x 18.5 ^H in	80 Pieces
---------	-----------------------	--	-----------

100% recycled material



Model contains:
80

Now made from 100% recycled material



100%
recycled
material

Giant Octoplay Natural Colours 20 Pieces



Guide



100% Recyclable



BPA Free



Scan to view online

80-1040	3.15 kg 6.94 lbs	50 ^L x 25 ^W x 25 ^H cm 19.69 ^L x 9.84 ^W x 9.84 ^H in	20 Pieces
----------------	---------------------	---	---------------------

**All sets include
a model guide**



Giant Octoplay Natural Colours 40 Pieces



Guide



100% Recyclable



BPA Free



Scan to view online

80-1050	6 kg 13.23 lbs	48 ^L x 48 ^W x 26 ^H cm 18.9 ^L x 18.9 ^W x 10.24 ^H in	40 Pieces
----------------	-------------------	---	---------------------

Giant Octoplay Natural Colours 80 Pieces



Guide



100% Recyclable

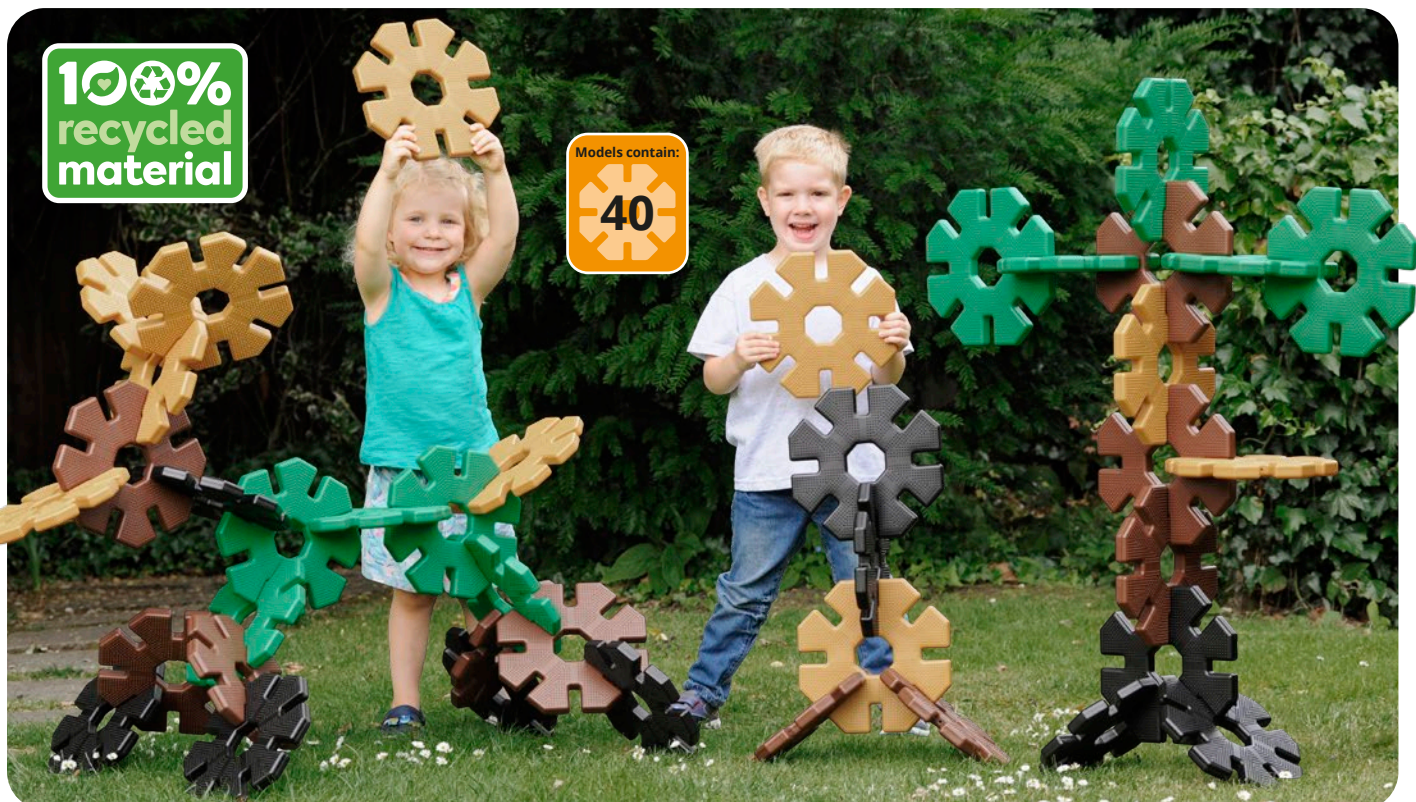


BPA Free



Scan to view online

80-1060	12.56 kg 27.69 lbs	50 ^L x 50 ^W x 47 ^H cm 19.69 ^L x 19.69 ^W x 18.5 ^H in	80 Pieces
----------------	-----------------------	--	---------------------



100%
recycled
material

Models contain:

40

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.
- ▶ Cleaning Method: A dry or slightly damp cloth with mild soap or detergent – wipe dry.

Wooden Octoplay

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



Guide



Recyclable Carton



Scan to view online

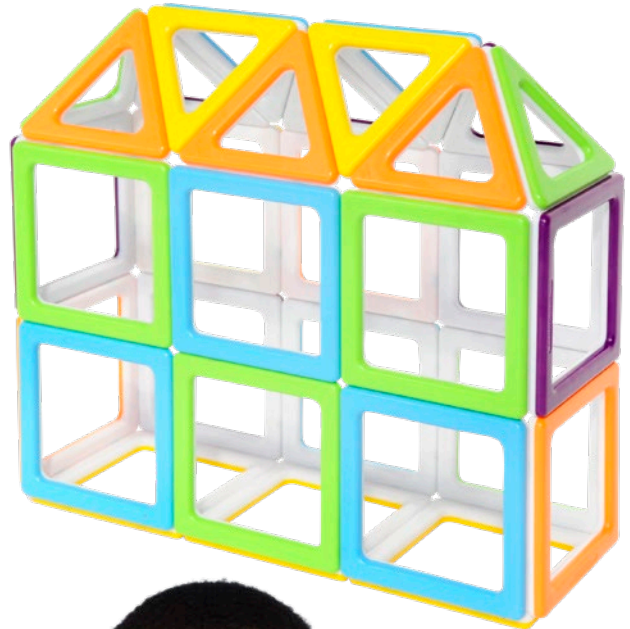
30-2000

1.013 kg
2.23 lbs13.5^L x 13.5^W x 13.5^H cm
5.31^L x 5.31^W x 5.31^H in20
PiecesThe mark of
responsible forestry

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).
- ▶ Cleaning Method: Sterilize with alcohol based sanitizer.



**Larger
pieces for
smaller
hands**



MegaMag Polydron Set

A great set for small groups or individual students.

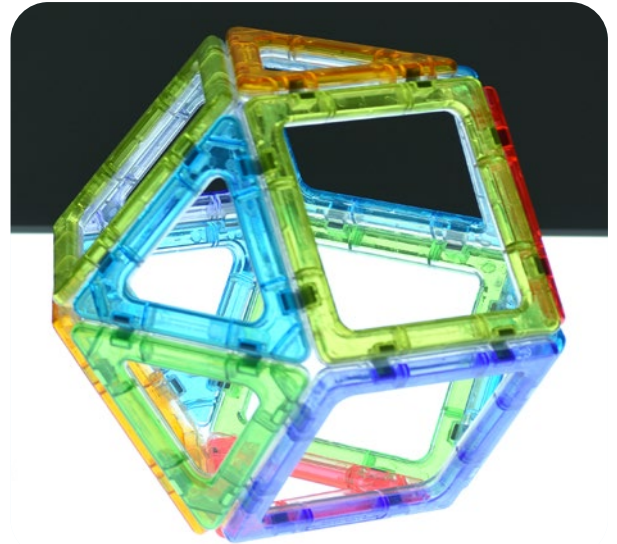
20	16				
Square	Equilateral	Guide	BPA Free	Recyclable Carton	Scan to view online
90-1000	1.5 kg 3.31 lbs	36 ^L x 25 ^W x 6.5 ^H cm 14.17 ^L x 9.84 ^W x 2.56 ^H in	36 Pieces		



MAGNETIC



Explore shape & colour against a light source with Crystal MegaMag

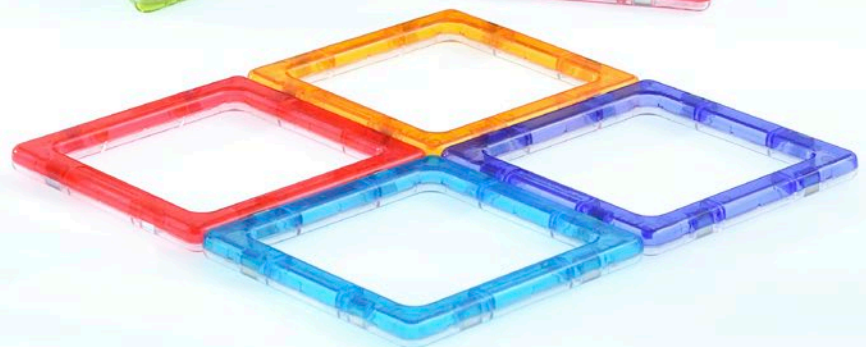
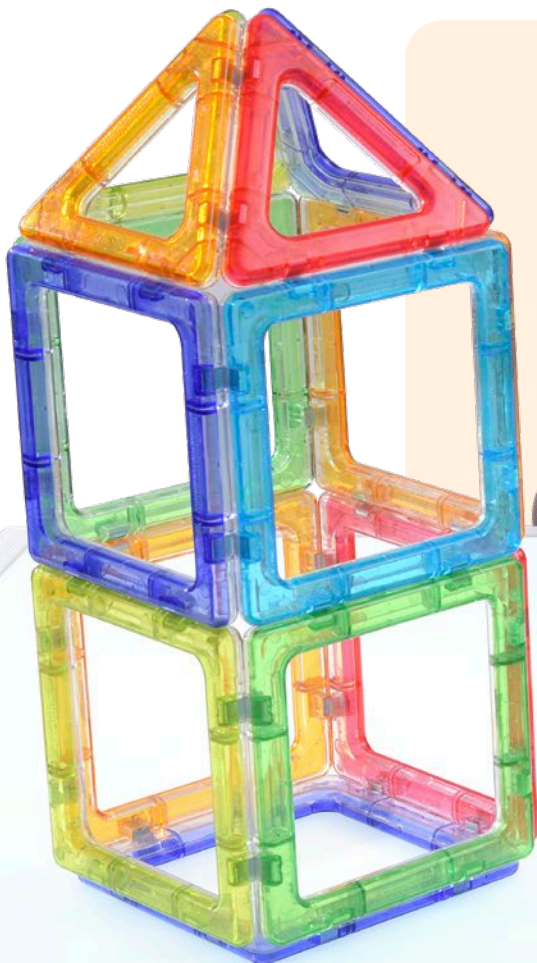


Crystal MegaMag Polydron Set

Set includes 20 squares and 16 equilateral triangles.

20	16				
Square	Equilateral	Guide	BPA Free	Recyclable Carton	Scan to view online
90-1000 CRYSTAL	1.5 kg 3.31 lbs	36 ^L x 25 ^W x 6.5 ^H cm 14.17 ^L x 9.84 ^W x 2.56 ^H in	36 Pieces		

All models shown can be made at the same time



Ideal on a light table!

OCTOPLAY

Build almost any model with a vast array of pieces

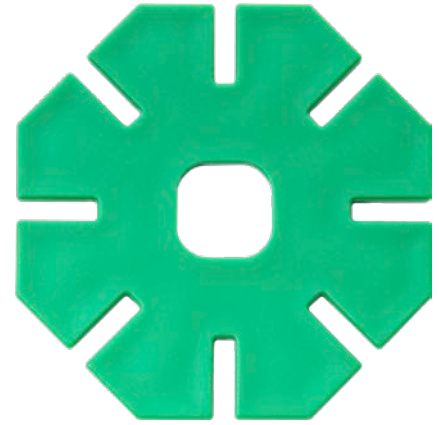
- ▶ Make moving vehicles with the Action pack.
- ▶ Combine struts with octagonal pieces.
- ▶ Pieces slot and slide together with ease.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.

Octoplay Action Pack

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



10-8030 2.6 kg – 5.73 lbs 29^L x 29^W x 22^H cm – 12.2^L x 12.2^W x 9.06^H in 296 Pieces



Actual Size

Each piece measures 5.5cm across
(2.16 inches)



VIDEO ON
WEBSITE



0-3
SMALL
PARTS

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.
- ▶ Non gender specific multicultural figures easily fit into the chunky pieces.
- ▶ Cleaning Method: Hand wash with mild sterilizing detergent.



Junior Polydron Class Set



45	45	90	90	36		9	9	18	18
Triangle	Triangle with Hole	Square	Square with Hole	Spacer	Wheel	Axle 120mm	Axle 170mm	Child Figure	Adult Figure

60-6010	2.2 kg - 3.97 lbs	29 ^L x 29 ^W x 22 ^H cm 11.81 ^L x 9.84 ^W x 5.91 ^H in	372 Pieces
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Scan to view online

Junior Polydron Set



15	15	30	30	12		3	3	6	6
Triangle	Triangle with Hole	Square	Square with Hole	Spacer	Wheel	Axle 120mm	Axle 170mm	Child Figure	Adult Figure

60-6000	0.6 kg - 1.32 lbs	28 ^L x 24 ^W x 8 ^H cm 11.02 ^L x 9.45 ^W x 3.15 ^H in	124 Pieces
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Scan to view online



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.
- ▶ Cleaning Method: Sterilize with alcohol based sanitizer.



*Ideal on a
light table!*



Hashmag Polydron Starter Set

Designed for individual or small group use.

12	12				
Triangle	Square	Guide	BPA Free	Recyclable Carton	Scan to view online

55-8000	0.357 kg 0.78 lbs	14 ^L x 12.5 ^W x 4 ^H cm 5.5 ^L x 4.9 ^W x 1.6 ^H in	24 Pieces
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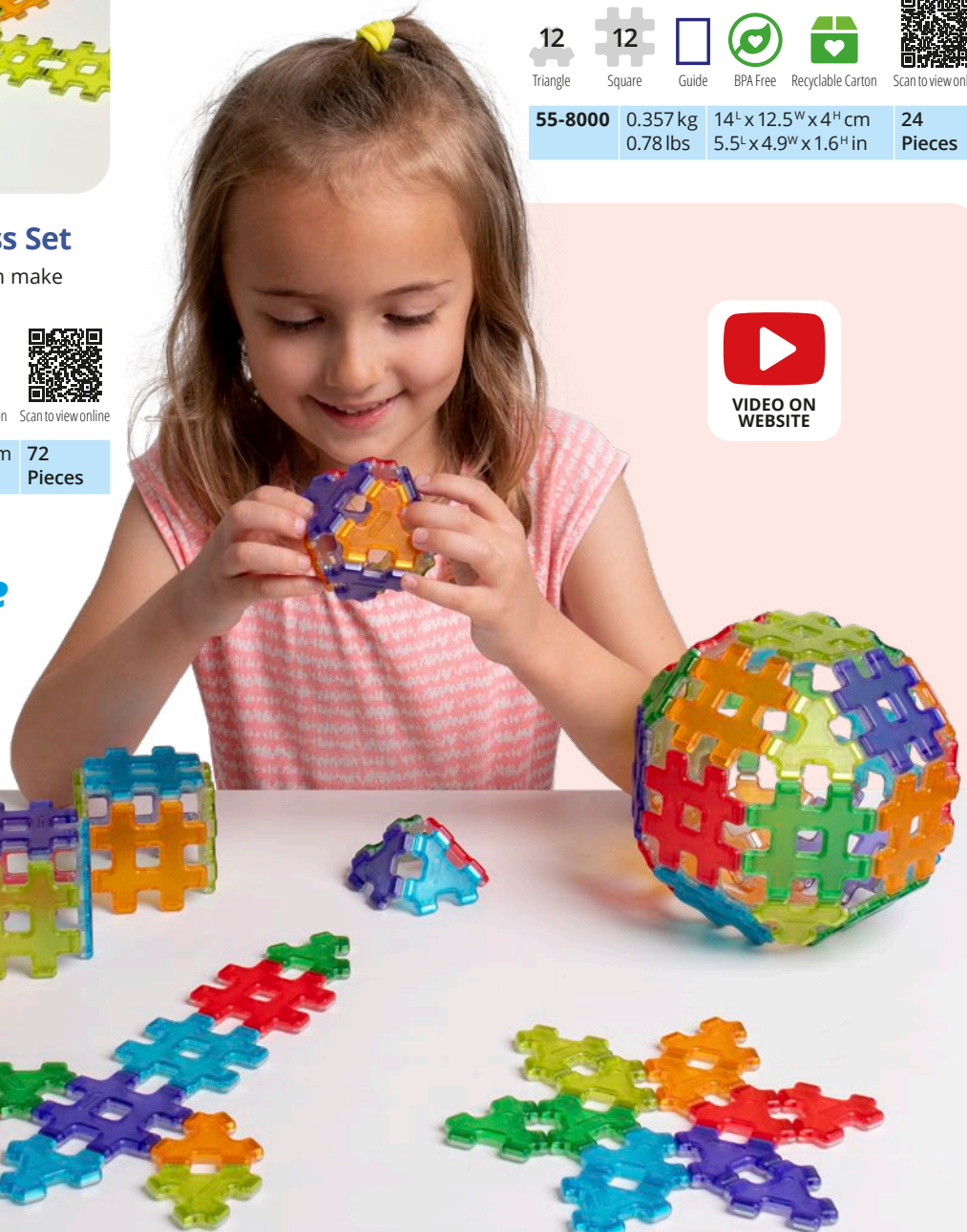
Hashmag Polydron Class Set

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

36	36				
Triangle	Square	Guide	BPA Free	Recyclable Carton	Scan to view online

55-8010	0.992 kg 2.18 lbs	19.5 ^L x 18 ^W x 5.5 ^H cm 7.7 ^L x 7.1 ^W x 2.2 ^H in	72 Pieces
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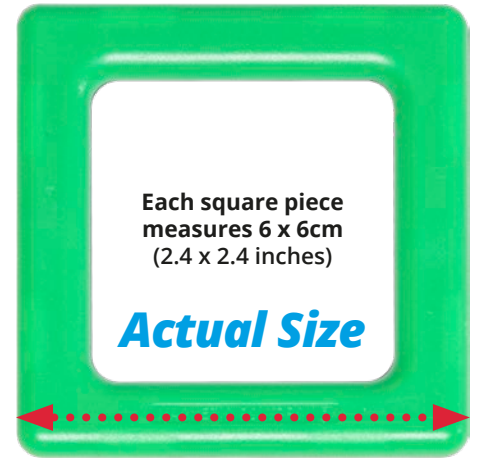
*Develops fine
motor skills*



MAGNETIC POLYDRON


Build models quickly & easily with strong magnets

- ▶ Manufactured from hard wearing ABS.
- ▶ Simple colour coding demonstrates polarity.
- ▶ Cleaning Method: Sterilize with alcohol based sanitizer.



Magnetic Polydron Set

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

12 Square	20 Equilateral	 Guide	 BPA Free	 Recyclable Carton	 Scan to view online
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50-1000	0.4 kg 0.88 lbs	17 ^L x 9 ^W x 6 ^H cm 6.69 ^L x 3.54 ^W x 2.36 ^H in	32 Pieces
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Magnetic Polydron Class Set

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

36 Square	60 Equilateral	 Guide	 BPA Free	 Recyclable Carton	 Scan to view online
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50-1010	1.4 kg 3.09 lbs	24 ^L x 24 ^W x 20 ^H cm 9.45 ^L x 9.45 ^W x 7.87 ^H in	96 Pieces
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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.



36 Square	60 Equilateral	24 Right Angle	12 Rectangle	12 Pentagon	20 Mirror Panel	20 Write-on/off Panel			
---------------------	--------------------------	--------------------------	------------------------	-----------------------	---------------------------	---------------------------------	--	--	--

50-1050 2.4 kg - 5.29 lbs 27^L x 27^W x 22^H cm - 12.2^L x 12.2^W x 9.06^H in **184 Pieces**

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.



Scan to view online

24 Right Angle	12 Rectangle	12 Pentagon			
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50-1030 0.7 kg 1.54 lbs 21^L x 10^W x 9^H cm 8.27^L x 3.94^W x 3.54^H in **48 Pieces**














**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 Wheel	 32 Square	 28 Equilateral	 16 Square with Hole	 6 Child Figure	 6 Adult Figure	 BPA Free	 Recyclable Carton	 Scan to view online
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50-1095	1.5 kg 3.31 lbs	24 ^L x 24 ^W x 20 ^H cm 9.45 ^L x 9.45 ^W x 7.87 ^H in	92 Pieces
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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 Wheel	 4 Square with Hole	 BPA Free	 Recyclable Carton	 Scan to view online
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50-1065	0.3 kg 0.66 lbs	10 ^L x 9 ^W x 9 ^H cm 3.94 ^L x 3.54 ^W x 3.54 ^H in	8 Pieces
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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.



Scan to view online



VIDEO ON WEBSITE

144 Pieces

50-8080 144 Pieces



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

Magnetic Polydron Super Value Set

This is a great value saving 81 piece set which allows you to build a range of vehicles and structures.

- 12
- 4
- 24
- 4
- 8
- 8
- 2
- 2
- 2
- 2

- 2
- 1
- 2
- 4
- 1

- 3
-
-
-

50-8050 81 Pieces

81 Pieces



Magnetic Polydron Mathematics Set

This class set contains everything you need to teach 2D and 3D shapes to primary school children.

This vast set contains 11 different shapes with a total of 118 pieces. It includes basic shapes such as squares, rectangles and 3 types of triangles as well as more complicated shapes such as cylinders & cones.

Learners can start with simple 2D shapes, tessellations and nets before moving onto more complicated 3D shapes. Make shapes such as a tetrahedron, cube, octahedron, icosahedron and dodecahedron to help learn platonic solids. You can also make a wide variety of different prisms, anti-prisms and pyramids.

Truly the most comprehensive geometry set a teacher can use for demonstrating the full range of geometric shapes that primary school children need to learn.

20 Equilateral	12 Right Angle	12 Isosceles	20 Square	10 Rectangle	12 Pentagon	4 Hexagon
8 Sphere	12 Quadrant	4 Cone	4 Cylinder	BPA Free	Recyclable Carton	Scan to view online

50-7000	2 kg 4.41 lbs	27 ^L x 27 ^W x 22 ^H cm 10.63 ^L x 10.63 ^W x 8.66 ^H in	118 Pieces
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118 Pieces



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!



BPA Free

- 60
Equilateral
- 24
Right Angle
- 60
Isosceles
- 36
Square
- 12
Rectangle
- 12
Pentagon
- 20
Hexagon
- Guide

50-4000	3.32 kg - 7.32 lbs	40 ^L x 36 ^W x 25 ^H cm 15.75 ^L x 14.17 ^W x 9.84 ^H in	224 Pieces
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Scan to view online

**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
Square
- 32
Equilateral
- 12
Pentagon
- BPA Free
-

50-5056	0.96 kg 2.12 lbs	24 ^L x 19 ^W x 6 ^H cm 9.45 ^L x 7.48 ^W x 2.36 ^H in	50 Pieces
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50 Pieces



VIDEO ON WEBSITE



**Build and
explore the
5 Platonic
Solids**

MAGNETIC POLYDRON

"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

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



Scan to view online

50-4020

48 Pieces

VIDEO ON
WEBSITE

MAGNETIC

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 6cm (2.4 x 2.4 inches).



Translucent Magnetic Polydron Set

24

Square

40

Equilateral

Guide



BPA Free



Recyclable Carton



Scan to view online

50-3000T

0.763 kg
1.76 lbs12^L x 12^W x 10^H cm
7.09^L x 5.51^W x 1.97^H in64
Pieces

**BEST
SELLER**



MAGNETIC



Translucent Magnetic Polydron Class Set

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

48

Square

80

Equilateral



Guide



BPA Free



Recyclable Carton



Scan to view online

50-3000T/SPECIAL	1.771 kg 3.9 lbs	24 ^L x 24 ^W x 20 ^H cm 9.45 ^L x 9.45 ^W x 7.87 ^H in	128 Pieces
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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.

40

Equilateral

12

Right Angle

8

Isosceles

24

Square

4

Rectangle

12

Pentagon



Guide



BPA Free



Recyclable Carton



Scan to view online

50-3050	1.771 kg – 3.9 lbs	24 ^L x 24 ^W x 20 ^H cm – 9.45 ^L x 9.45 ^W x 7.87 ^H in	100 Pieces
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100 Pieces



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.
- ▶ Model guides included in all sets.



Scan to view online



Scan to view online

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
50-9000	0.4 kg 0.88 lbs	17.5 ^L x 12.2 ^W x 3 ^H cm 6.89 ^L x 4.8 ^W x 1.18 ^H in		24 Pieces		

Solid Magnetic Polydron Class Set

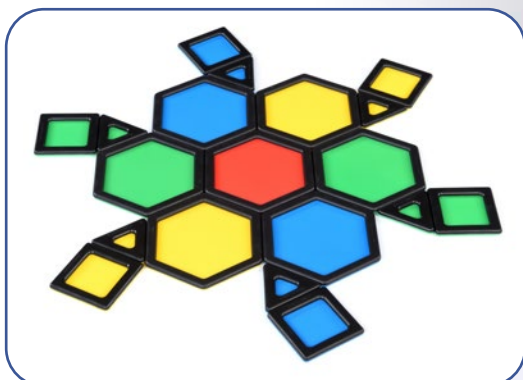
This set is designed for class use.

35	35	1	1			
Square	Equilateral	Square	Equilateral	Guide	BPA Free	Recyclable Carton
50-9100	1.1 kg 2.42 lbs	29.3 ^L x 12.5 ^W x 5 ^H cm 11.53 ^L x 4.92 ^W x 1.97 ^H in		72 Pieces		

Solid Magnetic Polydron Essential Shapes Set

This award winning set is great for teaching geometry, construction and polarity to larger groups of children. Contains 104 pieces and is ideal for building more complex shapes.

35	35	11	20	1	1	1	
Square	Equilateral	Pentagon	Hexagon	Square	Equilateral	Pentagon	Guide
50-9200	2.2 kg 4.85 lbs	30.8 ^L x 24.2 ^W x 7 ^H cm 12.12 ^L x 9.52 ^W x 2.75 ^H in		104 Pieces			



Scan to view online



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 Square	11 Equilateral	1 Square	1 Equilateral			
---------------------	--------------------------	--------------------	-------------------------	--	--	--

50-9000T 0.4 kg – 0.88 lbs 17.5^L x 12.2^W x 3^H cm – 6.89^L x 4.8^W x 1.18^H in **24 Pieces**



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 Square	35 Equilateral	1 Square	1 Equilateral			
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50-9100T 1.1 kg – 2.42 lbs 29.3^L x 12.5^W x 5^H cm – 11.53^L x 4.92^W x 1.97^H in **72 Pieces**

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



104 Pieces

50-9200T 2.2 kg 4.85 lbs 30.8^L x 24.2^W x 7^H cm 12.12^L x 9.52^W x 2.75^H in **104 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.



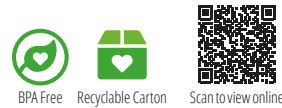
See page 62 for Polydron Sphera



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



50-1110	0.34 kg 0.75 lbs	14 ^L x 20 ^W x 8 ^H cm 5.51 ^L x 7.87 ^W x 3.15 ^H in	36 Pieces
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Magnetic Polydron Sphera Class Set

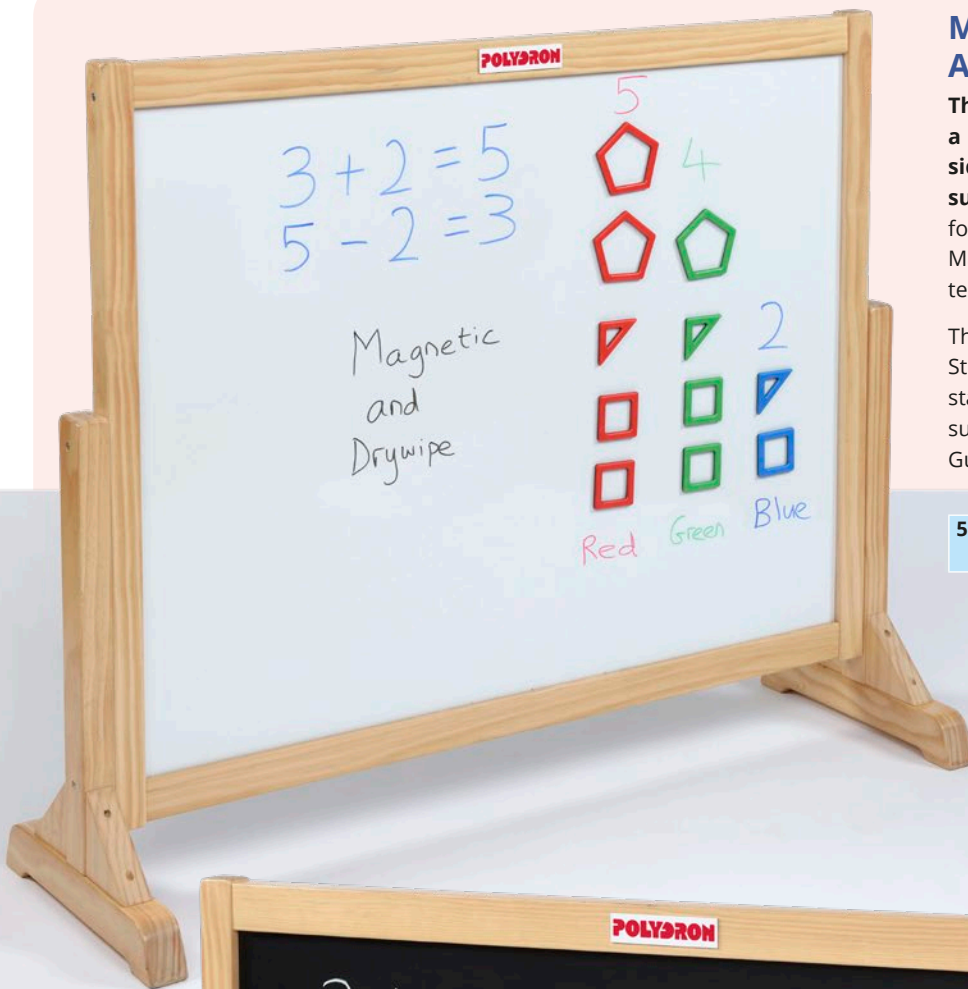
Contains enough pieces for a classroom of children to share their ideas and inspire their classmates.

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



50-1120	1.27 kg 2.8 lbs	24 ^L x 24 ^W x 20 ^H cm 9.45 ^L x 9.45 ^W x 7.87 ^H in	72 Pieces
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Magnetic Polydron Activity Board

This high-quality activity board has a magnetic dry-wipe surface on one side and a magnetic chalkboard surface on the reverse. It is a great tool for demonstrating geometric nets with Magnetic Polydron, or for classroom teaching using dry-wipe pens or chalk.

The frame is made from pine wood. Sturdy and chunky legs are ideal for stability in busy classrooms. The writing surface measures 100 x 80cm. Guaranteed for 5 years.

50-6000	7.28 kg 16.05 lbs	100 ^H x 121 ^W x 10 ^D cm 39.37 ^H x 47.64 ^W x 3.94 ^D in
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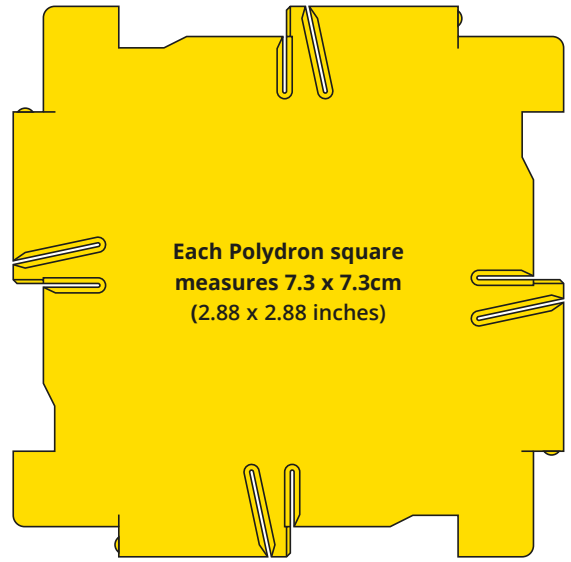
Scan to view online



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.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.
- ▶ For easy assembly, all sets (except Original Crystal Polydron) have at least one piece of Original Polydron Frameworks.



Each Polydron square measures 7.3 x 7.3cm (2.88 x 2.88 inches)



Actual Size

BEST VALUE

Original Polydron Super Value Set

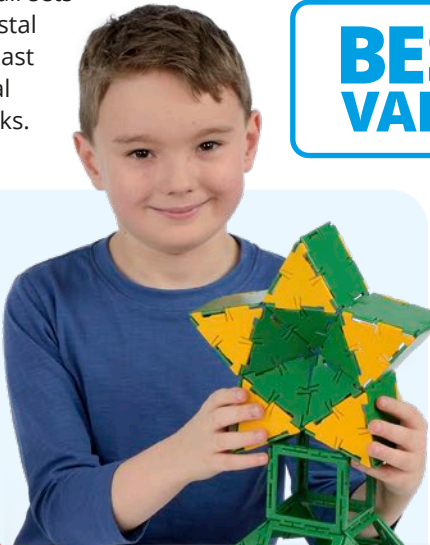
An excellent, comprehensive set containing over 450 pieces of Polydron that will be a great value addition to any classroom. The most economical way to buy a bulk set of quality Polydron.



Scan to view online

456 Pieces

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



SMALL PARTS

Includes Exploring Booklet

FREE downloadable teachers' resources & projects are now available from polydron.com/free-resources



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

Scan to view online

10-3005

1.86 kg - 4.1 lbs

37^L x 24^W x 7^H cm

14.57^L x 9.45^W x 2.76^H in

164 Pieces

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

Scan to view online

10-3000

0.61 kg - 1.34 lbs

25^L x 24^W x 3^H cm


9.84^L x 9.45^W x 1.18^H in

50 Pieces



Original Polydron School Geometry Set

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

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



10-3020	5 kg 11.02 lbs	46 ^L x 36 ^W x 13 ^H cm 18.11 ^L x 14.17 ^W x 5.12 ^H in	266 Pieces
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**BEST
SELLER**

266 Pieces



Polydron Cleaning System

Clean, drain and dry your resources with our high quality cleaning system.



**See page 61 for
more information**

WASH1





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 Hexagon	40 Square	100 Equilateral	24 Pentagon	Exploring Booklet	100% Recyclable	BPA Free	Scan to view online
10-3031	3.52 kg – 7.76 lbs		43 ^L x 31 ^W x 7 ^H cm 16.93 ^L x 12.2 ^W x 2.76 ^H in		184 Pieces		

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 Hexagon	40 Square	100 Equilateral	24 Pentagon	80 Right Angle	60 Isosceles	50 Large Equilateral	30 Rectangle	10 Octagon	Exploring Booklet
10-3050	6.64 kg – 14.64 lbs		43 ^L x 31 ^W x 15 ^H cm 16.93 ^L x 12.2 ^W x 5.91 ^H in		414 Pieces				



100% Recyclable BPA Free

Scan to view online

Over 400 Pieces

276 Pieces

NEW



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 workcards 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

10-3500 276 Pieces



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



Scan to view online

Original Polydron Midi Box

Build over 40 models with this great starter set.

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

- 100% Recyclable
- BPA Free
- Recyclable Carton

20-5002R	0.6 kg 1.32 lbs	22 ^L x 22 ^W x 15 ^H cm 8.66 ^L x 8.66 ^W x 5.91 ^H in	80 Pieces
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Original Polydron Mega Box

Fantastic guide enclosed with fun model suggestions. Builds over 60 models.

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

20-5003R	1 kg 2.2 lbs	24 ^L x 24 ^W x 20 ^H cm 9.45 ^L x 9.45 ^W x 7.87 ^H in	126 Pieces
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Scan to view online



100% Recyclable



BPA Free



Recyclable Carton

Original Polydron Mighty Box

Includes wheels to allow you to make moving vehicles.

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

- 4 Stub Axle
- 4 Large Wheel
- Guide
- 100% Recyclable
- BPA Free
- Recyclable Carton

20-5005R	2.2 kg 4.85 lbs	27 ^L x 27 ^W x 22 ^H cm 12.2 ^L x 12.2 ^W x 9.06 ^H in	223 Pieces
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Includes Wheels!



BEST SELLER



Scan to view online

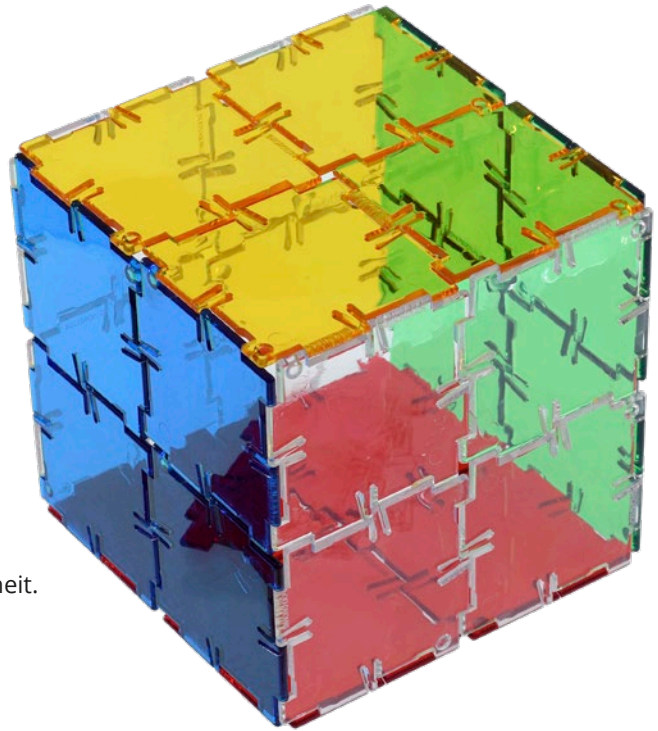


SMALL PARTS

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 7.3cm (2.88 x 2.88 inches).
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.



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



Scan to view online

10-3005CRYSTAL

2.00 kg

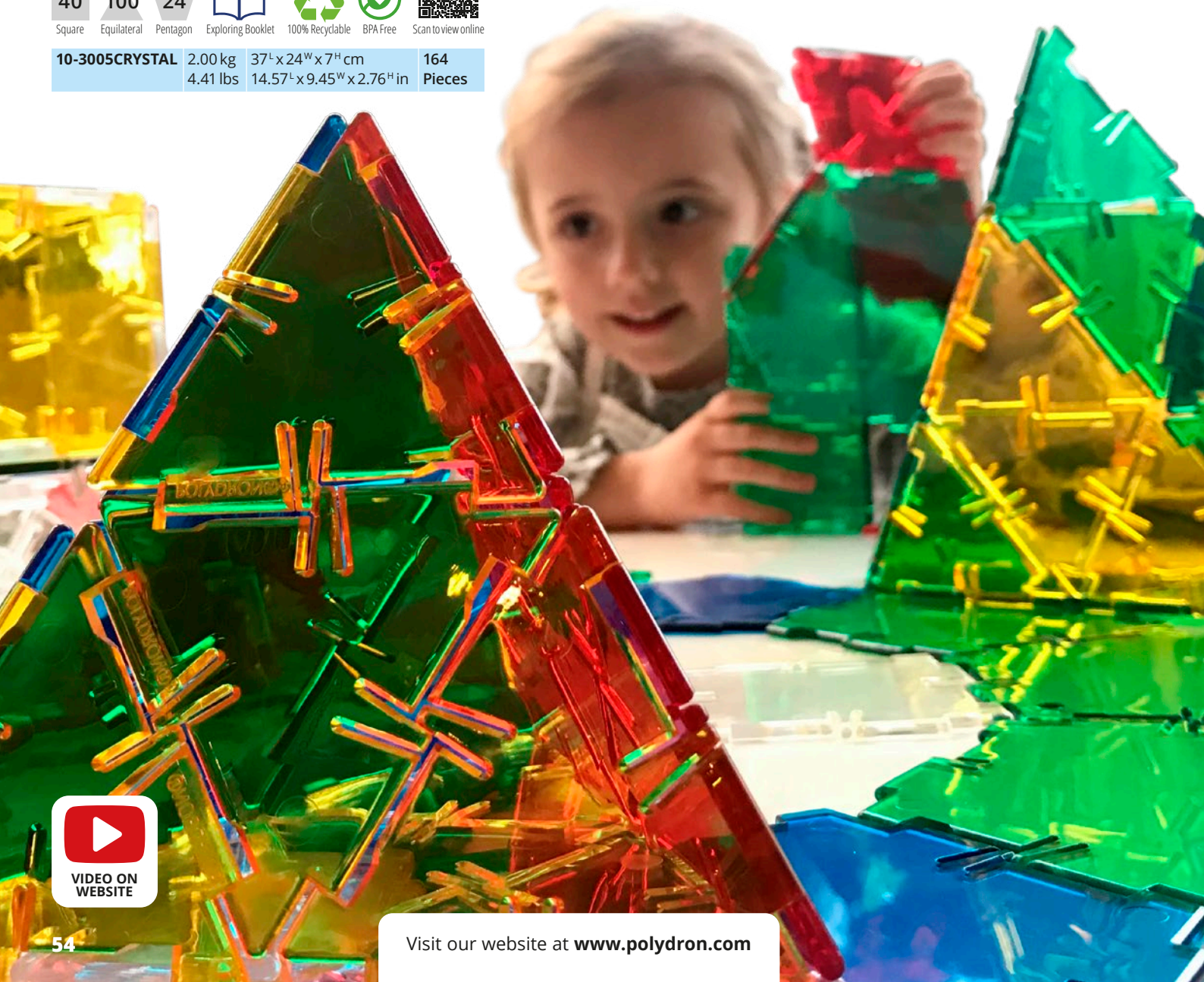
4.41 lbs

37^L x 24^W x 7^H cm14.57^L x 9.45^W x 2.76^H in

164

Pieces

Super tough polycarbonate

VIDEO ON
WEBSITE

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

10-3031CRYSTAL	3.65 kg 8.05 lbs	43 ⁺ x 31 ^w x 7 ^h cm 16.93 ⁺ x 12.2 ^w x 2.76 ^h in	184 Pieces
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Ideal on a light table!



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.

NEW

Experiment with colour mixing

10-CMYCRYSTAL	48 Pieces
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Stands not included

48
Square

100% Recyclable

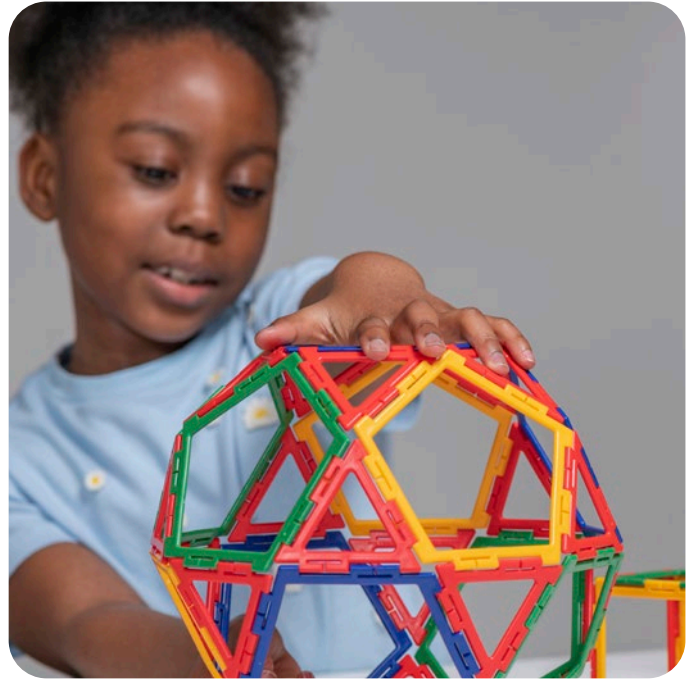
BPA Free



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.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.



Original Polydron Frameworks Basic Set

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

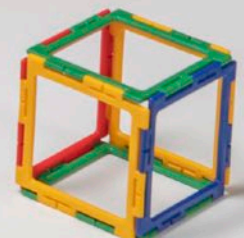
80	160	40				
Square	Equilateral	Pentagon	Activity Booklet	100% Recyclable	BPA Free	Scan to view online

10-3005F	1.3 kg 2.87 lbs	50 ^L x 24 ^W x 11 ^H cm 19.69 ^L x 9.45 ^W x 4.33 ^H in	280 Pieces
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VIDEO ON
WEBSITE










280 Pieces





Original Polydron Frameworks Multi Pack

Build structures and geometric solids. Complete with storage container and exploring booklet.

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



10-3043	3.27 kg – 7.21 lbs	43 ^L x 31 ^W x 15 ^H cm 16.93 ^L x 12.2 ^W x 5.91 ^H in	460 Pieces
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460 Pieces





SMALL PARTS



Scan to view online



VIDEO ON WEBSITE

268 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.

- 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 and projects are now available from polydron.com/free-resources

10-3320 2.88 kg – 6.35 lbs 46^L x 36^W x 13^H cm – 18.11^L x 14.17^W x 5.12^H in **268 Pieces**

Build all 5 Platonic Solids



Original Polydron Frameworks Platonic Solids Set

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

- 6 Square
- 32 Equilateral
- 12 Pentagon
- 100% Recyclable
- BPA Free
- Scan to view online

10-3044 0.23 kg 25^L x 24^W x 4^H cm **50 Pieces**
 0.51 lbs 9.84^L x 9.45^W x 1.57^H in

Original Polydron Frameworks Class Set

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

 30	 80	 160	 40				
Hexagon	Square	Equilateral	Pentagon	Exploring Booklet	100% Recyclable	BPA Free	Scan to view online

10-3031F	2.38 kg 5.25 lbs	43 ^L x 31 ^W x 15 ^H cm 16.93 ^L x 12.2 ^W x 5.91 ^H in	310 Pieces
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Class Set – 310 Pieces

FREE downloadable teachers' resources and projects are now available from polydron.com/free-resources

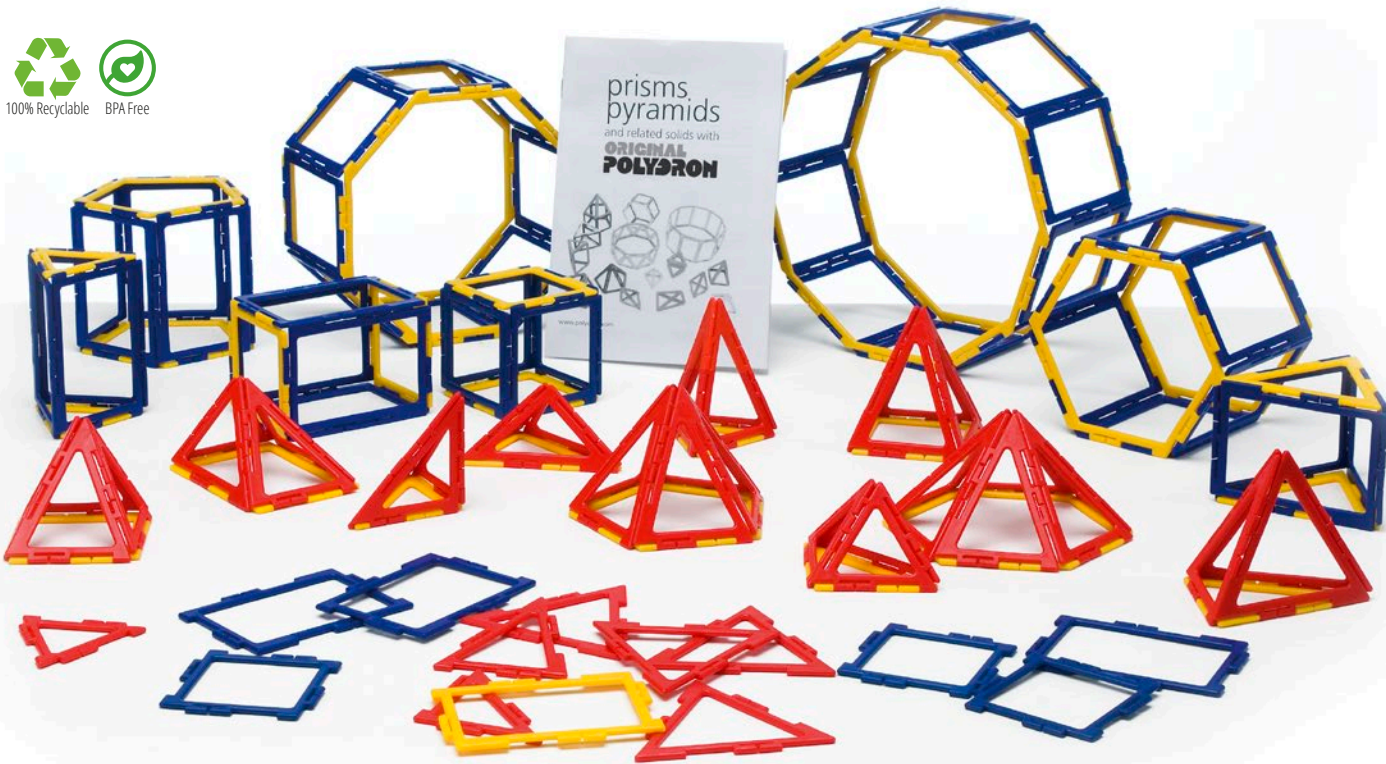













Original Polydron Frameworks Prism & Pyramid Set

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.



	
100% Recyclable	BPA Free



 9	 10	 26	 8	 14	 44	 3	 3	 2	 2	
Equilateral	Right Angle	Isosceles	Root 2	Square	Rectangle	Pentagon	Hexagon	Octagon	Decagon	Book

10-3067F	0.9 kg 1.98 lbs	38 ^L x 27 ^W x 9 ^H cm 14.96 ^L x 10.63 ^W x 3.54 ^H in	121 Pieces
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Archimedean Solids

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.



Scan to view online



10-5000FS	1.8 kg – 3.97 lbs	43 ^L x 31 ^W x 7 ^H cm 16.93 ^L x 12.2 ^W x 2.76 ^H in	160 Pieces
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Original Polydron Frameworks Archimedean Solids Class Set

Build and explore the 13 Archimedean Solids all at once.



Scan to view online



10-5000FL	4.1 kg 9.04 lbs	43 ^L x 31 ^W x 22.5 ^H cm 16.93 ^L x 12.2 ^W x 8.86 ^H in	452 Pieces
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AS FEATURED IN THE



Royal Institution
Christmas Lectures

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

SEE LINK TO VIDEO ON WEBSITE
polydron.com/videos



POLYDRON

CLEANING SYSTEM

Clean, drain and dry your resources with our high quality **Polydron Cleaning System**

- ▶ Includes one drainer and one bowl.
- ▶ Bowl measures 42.6^L x 18.7^H cm (16.77^L x 7.36^H inches).
- ▶ Drainer measures 43.6^L x 16.2^H cm (17.17^L x 6.38^H inches).
- ▶ Drainer nests within the bowl when washing, then turn it 180 degrees and it will sit at a height from the bowl allowing the contents to dry.
- ▶ Features easy grip handles and reinforced side panels.

Polydron Cleaning System

WASH1



Scan to view online



VIDEO ON WEBSITE



Scan to view online



Polydron Storage Bag

Made from high quality, 100% cotton with a thick drawstring, this bag is ideal for storing all your tabletop Polydron products. Size: 32 x 37cm.

KITBAG1



WASH



DRAIN

DRY



Polydron construction pieces not included

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.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.

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	22	6	6	2	2
Sphere	Quadrant	Cone	Cylinder	Square	Right Angle



Exploring Booklet



100% Recyclable



BPA Free



Scan to view online

SP-3001	0.84 kg 1.85 lbs	24 ^L x 29 ^W x 8 ^H cm 9.45 ^L x 11.42 ^W x 3.15 ^H in	50 Pieces
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8+

Original Polydron Sphera

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



Scan to view online

SP-3003

3.7 kg - 8.16 lbs

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

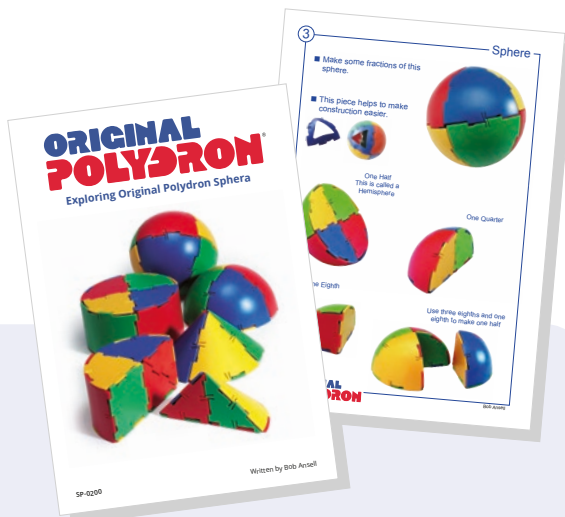
196 Pieces



196 Pieces



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.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.



Original Polydron Bridges Set Build any of the eight bridges, one at a time.

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

10-9010 2.6 kg – 5.73 lbs 43" x 31" x 15" cm – 16.93" x 12.2" x 5.91" in 134 Pieces



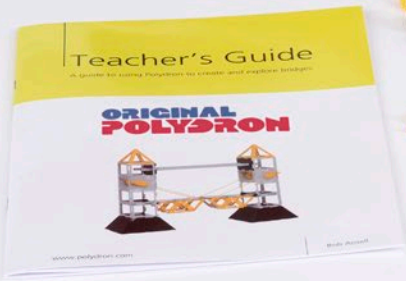
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SMALL PARTS



LONG CORDS





Original Polydron Bridges Class Set Build all of the eight bridges, at the same time.



All sets are 100% Recyclable & BPA Free

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

10-9030 6 kg - 13.23 lbs 43" x 31" w x 30" h - 16.93" x 12.2" w x 11.81" h

322 Pieces



Scan to view online

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.
- ▶ Supplied with new improved work cards.
- ▶ Fully tested by schools and experts.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.



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

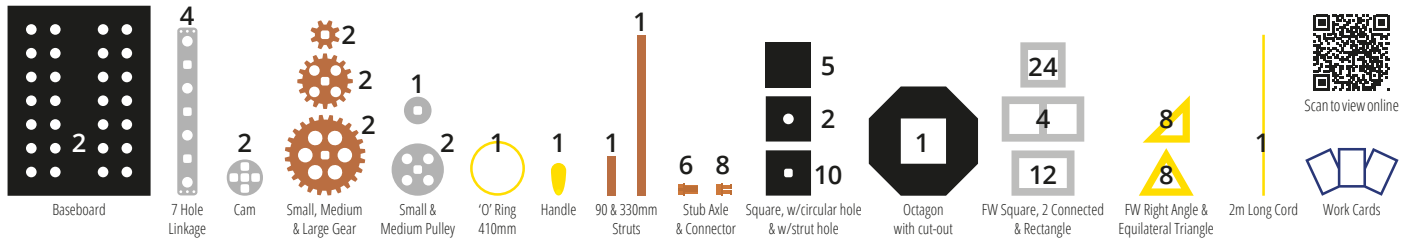
Parents Choice organisation, USA.

"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

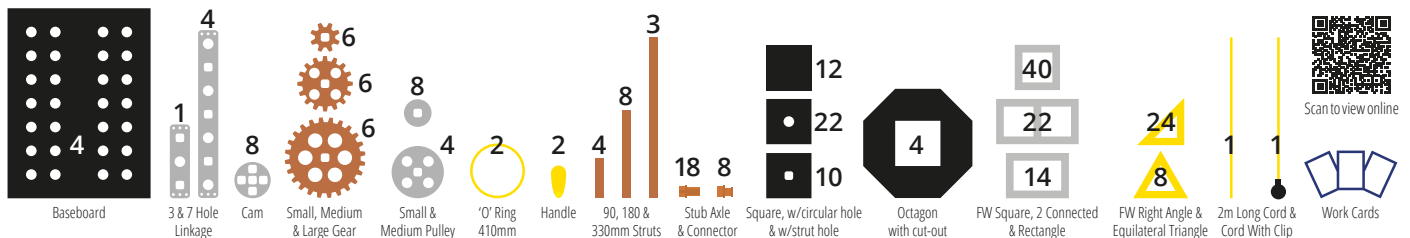
Contains 110 pieces. Build the following 5 models, 1 model at a time: Cable Car, Gear Toy 1, Gear Toy 2, Chairspinner, Chairplane.



10-7050 2.3 kg – 5.07 lbs 43⁺ x 31^w x 7^H cm – 16.93⁺ x 12.2^w x 2.76^H in **110 Pieces**

Original Polydron Engineer Class Set

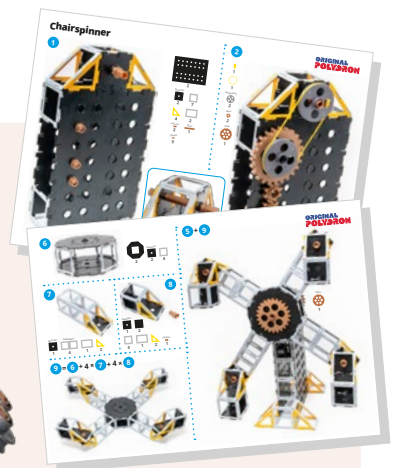
Contains 250 pieces. Build the following 14 models: Cable Car, Gear Toy 1, Gear Toy 2, Chairspinner, Chairplane, Big Gear Toy 1, Big Gear Toy 2, Four Cylinder Engine, Gearbox, Crane, Gyro, V8 Engine, Clock, Vertigo. 3 to 4 models can be made at a time.



10-7060 4.5 kg – 9.92 lbs 43⁺ x 31^w x 23^H cm – 16.93⁺ x 12.2^w x 9.06^H in **250 Pieces**



All sets are 100% Recyclable & BPA Free



**Includes
Improved
Work Cards**



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.
- ▶ Cleaning Method: Dishwasher Safe – 70° Celsius / 158° Fahrenheit.

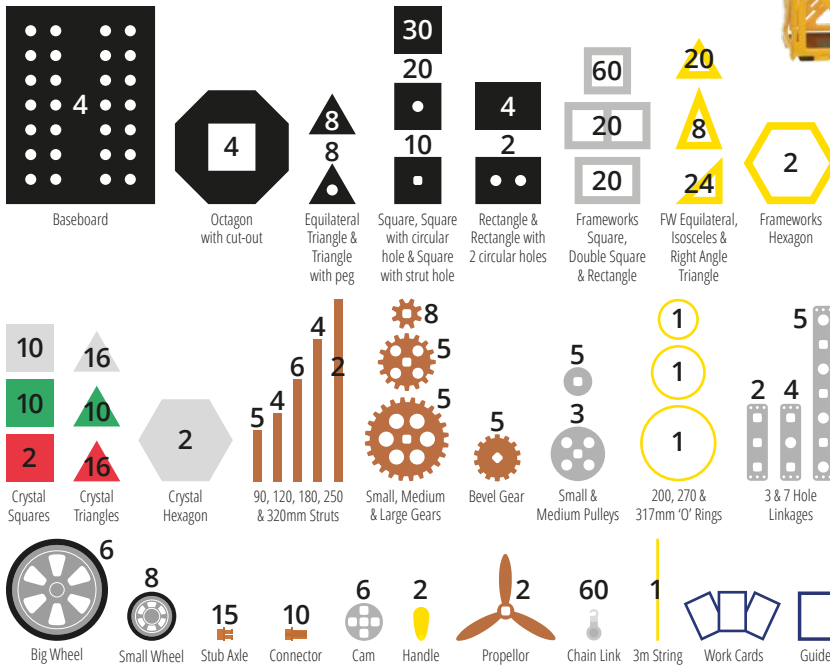


486 Pieces



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.



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

10-7070

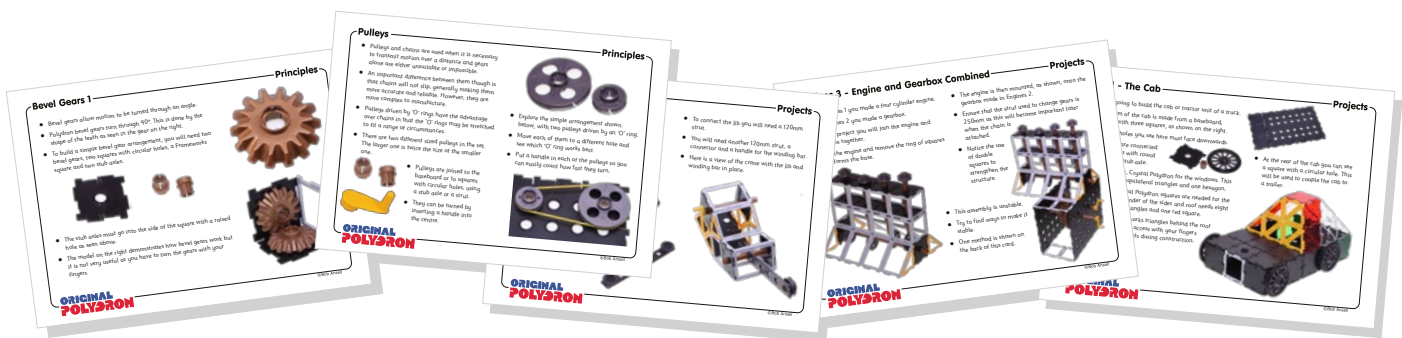
486 Pieces

Work Cards Principles

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

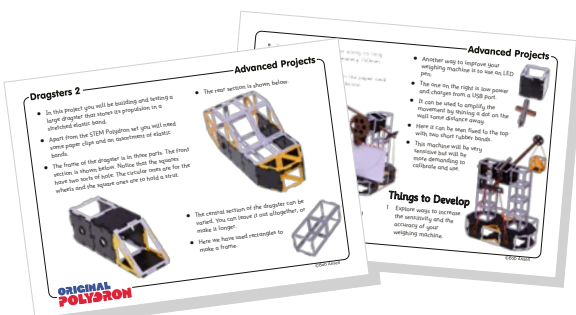
Projects

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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