

# MAGFORMERS<sup>®</sup>

Intelligent Magnetic Construction Set For Brain Development

**MIRACLE BRAIN SET**

## STYLE BOOK



MAGFORMERS LLC

**MAGFORMERS®**  
Intelligent Magnetic Construction Set For Brain Development

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## STYLE BOOK

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## The Magformers for the Creativity and Brain development

Magformers is the best 3D toy for children's creativity and brain development.

Children can transfer 2D plan shapes to over one hundred 3D geometric structures and while they are playing, they can naturally recognize the principles of magnets by feeling the magnetic power. Magformers is the super powerful magnetic toy which leads children to the world of limitless imagination and creativity.



# Learning Value of Magformers



## Sensorimotor Stage(Birth to Age 3)

In this period, 80% of brain development is formed. The brain and nervous system's development are accomplished through sensory stimulation activities and the movement of the fingers.

### o Learning Effect

- \* Stimulating visual sense with various colors and shapes.
- \* Stimulating auditory sense through the crisp sound of attaching/detaching.
- \* Increasing recognition skills of colors and shapes
- \* Building hand-eye coordination by attaching / detaching Magformers.
- \* Developing gross motor skills and fine motor skills by moving arms, hands and figures.

## Passionate Exploring Stage(Age 3 to 5)

In this period, children explore their environment with enthusiasm. It stimulates their curiosity while trying to control surrounding things by themselves. Their symbolic thinking is developed, and the overall form of play represents forms of imaginative play and pretend play.

### o Learning Effect

- \* Increasing manipulating skills of fingers.
- \* Enhancing divergent thinking, imagination, creativity through spontaneous play.
- \* Developing formative arts skills and understanding symmetry, construction, side and line.



### Independent Behavioral Stage(Age 5 to 7)

Children's actions are triggered by their self-reliance, independence and accomplishment. Abilities to think and express with their own unique ways are developed. Play is performed by their own creativity and originality.

#### ○ Learning Effect

- \* Understanding basic mathematics concepts such as portion and whole, correspondence, and patterns.
- \* Comparison of the shape and size, location and direction of top and bottom/right and left to understand the concept of semiotic relationships and spatial awareness.
- \* Enhancing creativity, problem-solving skills, independence and confidence.
- \* Developing language skills.

### Concrete Thinkable Stage(Age 7 to 12)

Children are able to think specifically and reproduce in detail about what they have experienced around the world. Through this process, observational skills, analytical and logical thinking skills are developed.

#### ○ Learning Effect

- \* Building observational skills and analytic thinking to create various objects.
- \* Developing spatial perception by creating buildings and structures.
- \* Developing logical thinking and reasoning.
- \* Building creative problem-solving skills to make complicated structures.
- \* Combining mathematical concepts and science principles to make magnetic constructions.

# Magformers is Much More than Fun

## Sensory Ability

Improvement of ability of controlling the fine motor, brain development through hand motion, sensory development through the color sense and the sound.

## Constructing Ability

Magformers helps children to develop constructing ability through the process of building models.

## Creativity

Magformers helps children create innumerable models and fosters children's ability to create new shapes and ideas.

## Curiosity

Through the perception about the relation between plane and solid, research ability for the object becomes developed and it stimulates the curiosity.



## Mathematical thinking

Magformers helps children make basic figures and regular polyhedrons. In the process of playing with the product, users acquire mathematical skills.

## Imagination

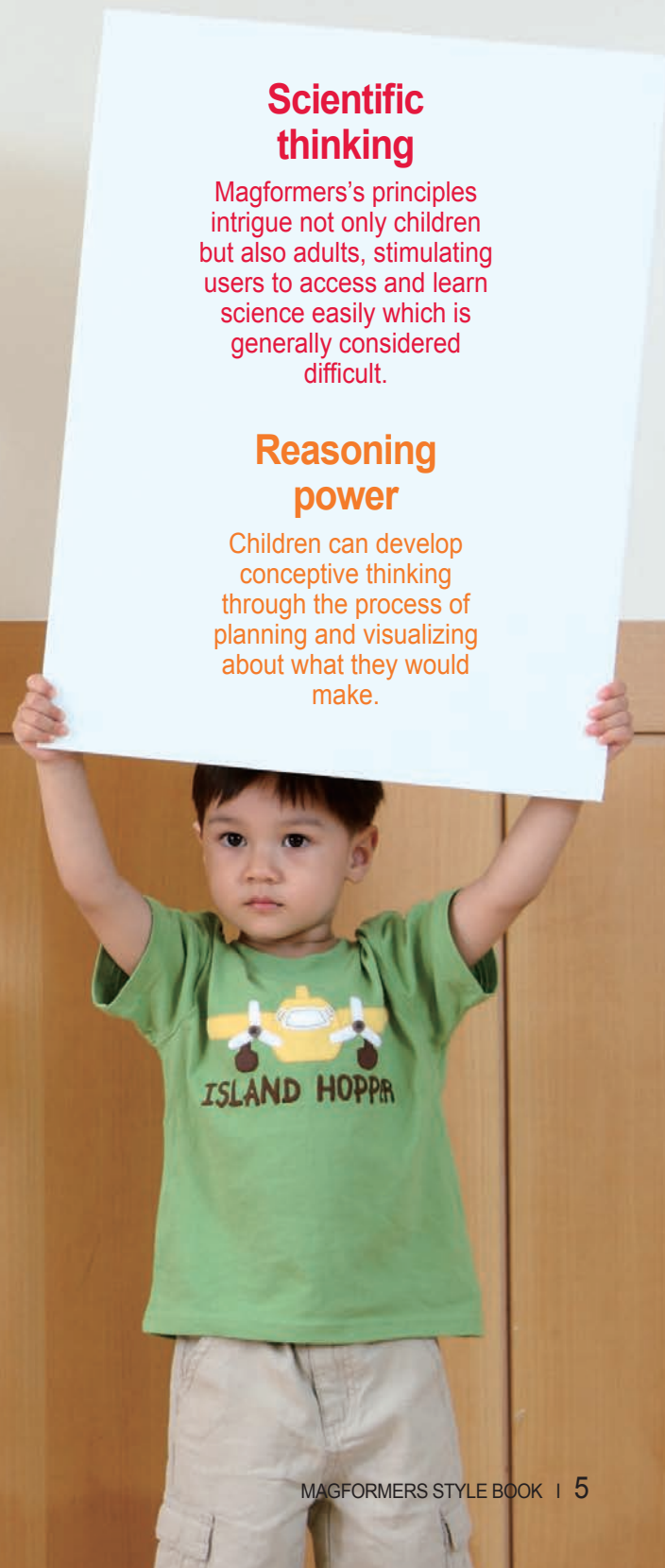
Magformers helps children create the various models they imagine and depict a world of unbound imagination.

## Scientific thinking

Magformers's principles intrigue not only children but also adults, stimulating users to access and learn science easily which is generally considered difficult.

## Reasoning power

Children can develop conceptive thinking through the process of planning and visualizing about what they would make.



# Composition of Magformers Miracle Brain Set



## Basic Shapes



Triangle X 39



Isosceles Triangle X 10



Square X 35



Mini Rectangle X 4



Rectangle X 4



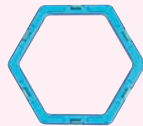
Diamond X 4



Trapezoid X 4



Pentagon X 2



Hexagon X 2



Super Triangle X 4



New Super Square X 6



Super Rectangle X 1



Mini Sector X 8



Mini Arch X 4



Sector X 8



Arch X 8



Super Sector X 8



Super Arch X 4



Cone X 4



Right Angled Triangle X 2

## LED



LED Lighted Box X 1



USB Cable X 1

## R/C



R/C Front Wheel X 1



R/C Motor Wheel X 1



R/C Remote control X 1

## Basic Accessories



Blocks X 18



Wheel X 2



Single Wheel X 4



Cards X 40

# The Characteristics of Magnet and the principle of Magformers

A Magnet has a positive and negative pole and the opposite poles of the magnet attract each other while the same poles of the magnet repel each other. The neodymium magnets which are encapsulated within all the edge surfaces of Magformers make Magformers rotate to any direction and connect each other regardless of their position when two Magformers are brought together. Therefore, Magformers is not designed only for stacking purposes like normal blocks, it is designed to show you amazing connecting powers regardless of their direction.

## Carnival



Boy Square X 1



Girl Square X 1



Y Shape Supporter X 2



Hexagon Supporter X 2



Fixing Wheel X 2

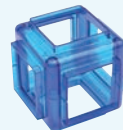


Carnival Base X 1



Axis X 1

## Extension



Cube Connector X 6



Triangle Connector X 2



Triangle Prism Connector X 2



Hinge X 2



Triangle Block X 4



Square Block X 4

## Transform



Big Gun X 1



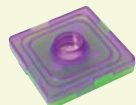
Small Gun X 1



Propeller X 2



Antenna X 1



Rotating Block X 8



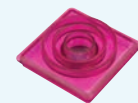
Square Tube X 2



Square Base X 4



Circle Tube X 2



Circle Base X 4

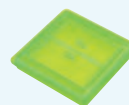
## Power Construction



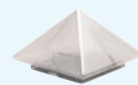
Pulley Block X 1



Crane X 1



Door X 6



Pyramid X 6

# The solid figures - Prism and Pyramid

**Prism** : It is a polygon in which two base sides are parallel and congruent each other and a solid figure in which sides are all rectangles. The name is determined according to the shape of polygon of two base sides.

**Pyramid** : It is a solid figure having the base side of polygon and the sides that are all triangles. The name is determined according to the shape of polygon of the base side.

## Triangular Prism and Triangular Pyramid

They are solid figures having the base side of a triangle.

Triangular Prism

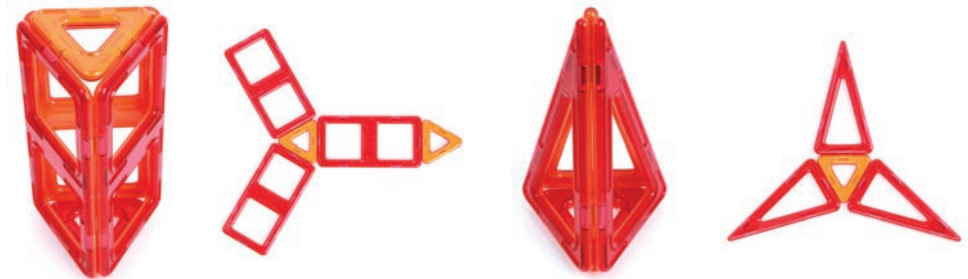
△ Triangle : 2

□ Rectangle : 3

Triangular Pyramid

△ Triangle : 1

△ Isosceles Triangle : 3



## Quadrangular Prism and Quadrangular Pyramid

They are solid figures having the base side of a quadrangle.

Quadrangular Prism

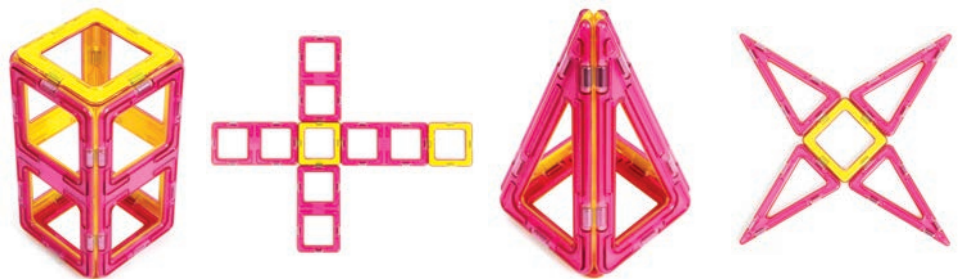
□ Square : 2

□ Rectangle : 4

Quadrangular Pyramid

□ Square : 1

△ Isosceles Triangle : 4



## Pentagonal Prism and Pentagonal Pyramid

They are solid figures having the base side of a pentagon.

Pentagonal Prism

⬠ Pentagon : 2

□ Rectangle : 5

Pentagonal Pyramid

⬠ Pentagon : 1

△ Isosceles Triangle : 5



## Hexagonal Prism and Hexagonal Pyramid

They are solid figures having the base side of a hexagon.

Hexagonal prism

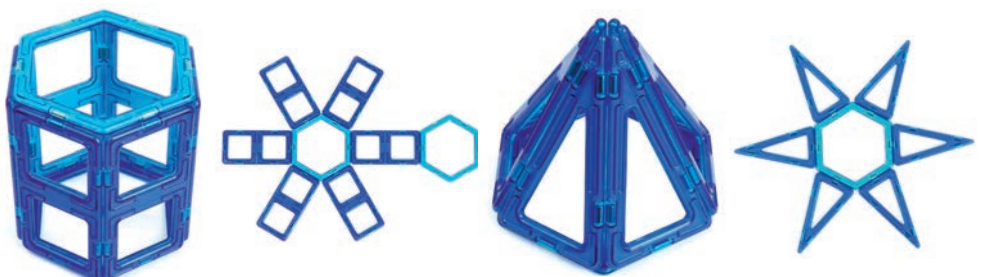
⬡ Hexagon : 2

□ Rectangle : 6

Hexagonal Pyramid

⬡ Hexagon : 1

△ Isosceles Triangle : 6





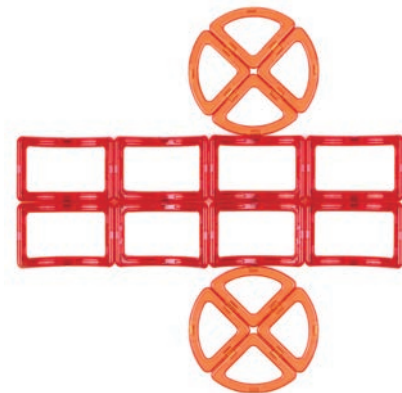
# The solid figures - Circular Cylinder and Circular Cone

**Circular cylinder** : It is a solid figure that is formed with the circle in which faces of top and bottom are parallel and congruent each other. Moreover, it is a body of revolution with 1 revolution with one side of quadrangle as the axis of revolution.

**Circular cone** : It is a hornlike solid figure in which the base side is a circle and the side is a curved surface. Furthermore, it is a body of revolution with 1 revolution with the height of right-angled triangle as the axis of revolution.




## Circular Cylinder

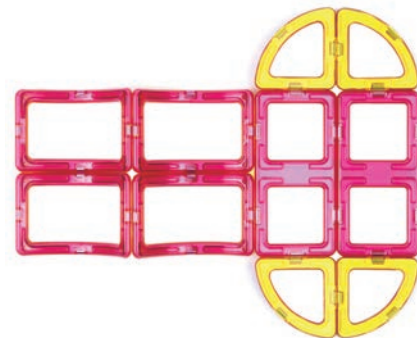
-  Sector : 8
-  Arch : 8



## The cross section of circular cylinder

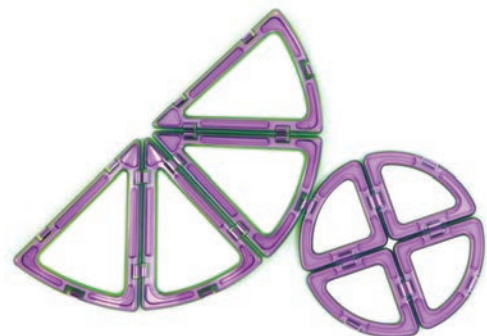
The cross section that cuts the circular cylinder vertically is a quadrangle.

-  Sector : 4
-  Arch : 4
-  Rectangle : 2






## Circular Cone

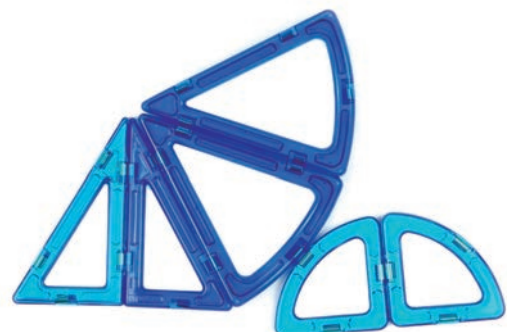
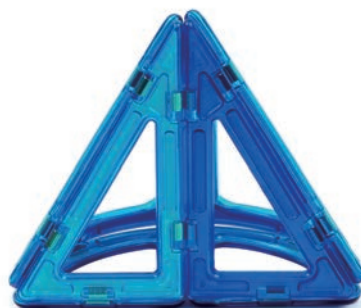
-  Sector : 4
-  Cone : 4



## The cross section of circular cone

The cross section that cuts the circular cone vertically is a triangle.

-  Sector : 2
-  Cone : 2
-  Right Angled Triangle : 2



# The solid figure-Regular Polyhedron and Semi-Regular Polyhedron

**Regular Polyhedron** : It is a convex polyhedron that is formed with one regular polygon and in which the number of regular polygon clustered in each vertex is all same.

**Semi-Regular Polyhedron** : It is a convex polyhedron which is formed by 2 or more regular polygon and in which the order of regular polygon clustered in each vertex is all same.

## Regular Tetrahedron

As a regular polyhedron which is formed by four regular triangles, the number of regular polyhedron clustered in each vertex is three.

△ Triangle : 4



## Regular Octahedron

As a regular polyhedron which is formed by eight regular triangles, the number of regular polyhedron clustered in each vertex is four.

△ Triangle : 8



## Regular Icosahedron

As a regular polyhedron which is formed by twenty regular triangles, the number of regular polyhedron clustered in each vertex is five.

△ Triangle : 20



**MAGFORMERS**

### Cube

As a regular polyhedron which is formed by six regular quadrilaterals, the number of regular quadrilateral clustered in each vertex is three.

□ Square : 6

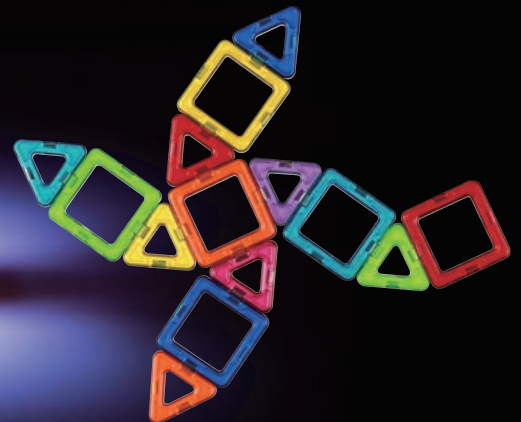


### Semi-Regular Polyhedron

As a semi regular polyhedron that cuts each edge of regular hexahedron or regular octahedron, it is formed by eight regular triangles and six regular quadrilaterals.

△ Triangle : 8

□ Square : 6

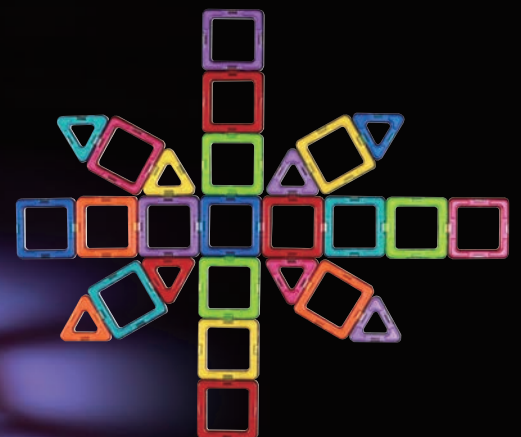


### Semi-Regular Polyhedron

As a semi regular polyhedron made by cutting the hexakisoctahedron once more, it is formed by eight regular triangles and eighteen regular quadrilaterals.

△ Triangle : 8

□ Square : 18

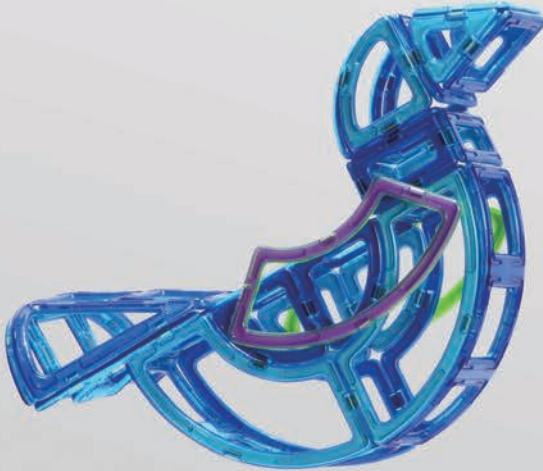


***DRAW YOUR CREATIVITY***





# RACE



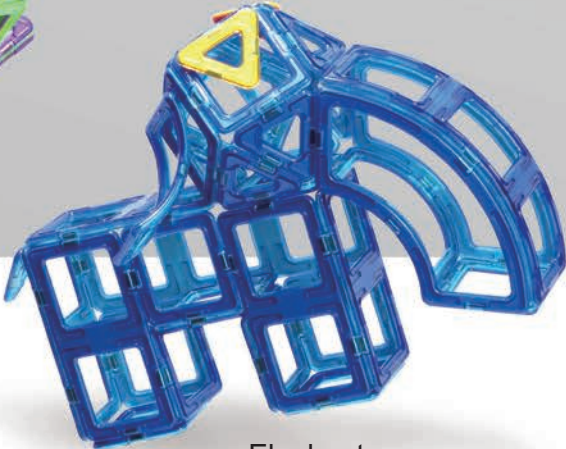
Pigeon



Squirrel



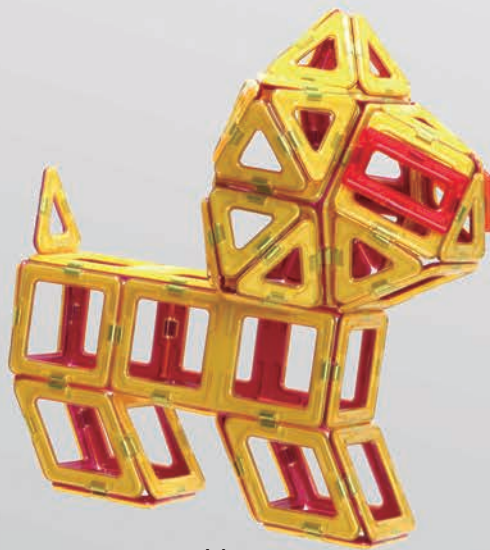
Puppy



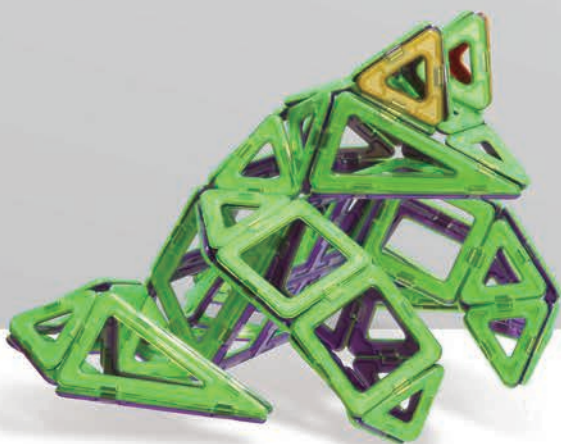
Elephant



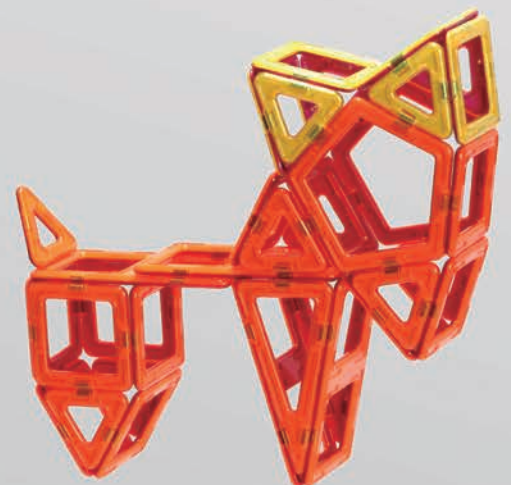
Flamingo



Lion



Frog









Fox

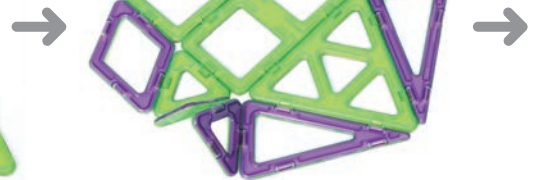
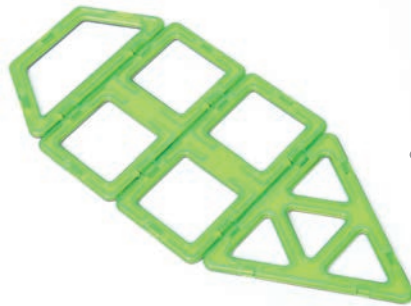
# Flamingo

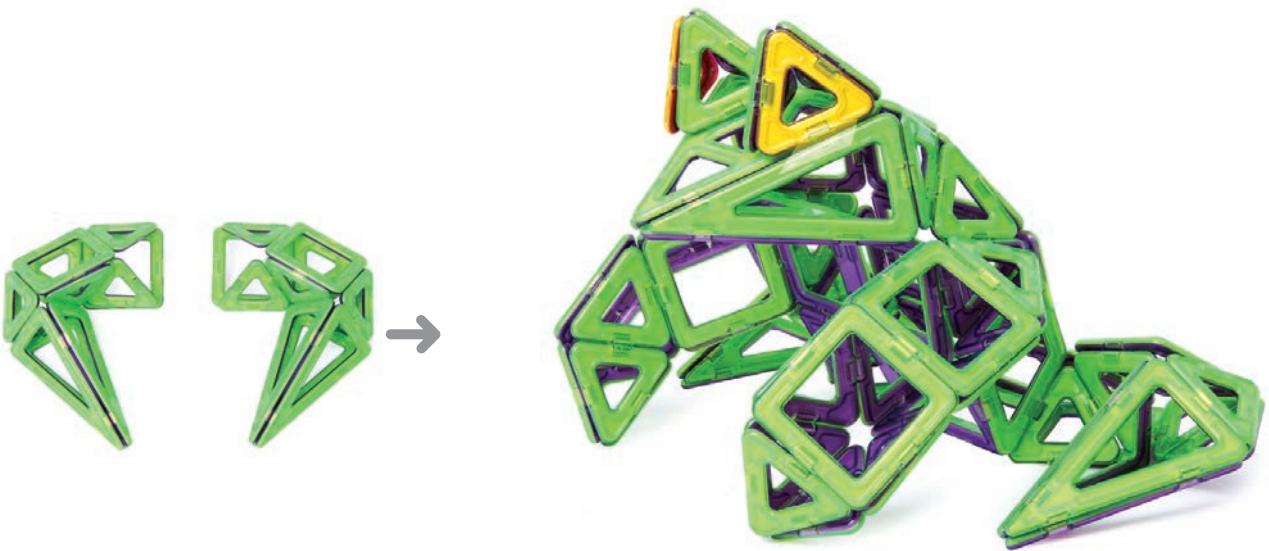
-  Triangle 1
-  Isosceles Triangle 4
-  Square 9
-  Rectangle 4
-  Diamond 2
-  Trapezoid 2
-  Hexagon 2
-  Mini Sector 2
-  Mini Arch 1
-  Arch 1
-  Super Sector 2
-  Super Arch 1










# Frog

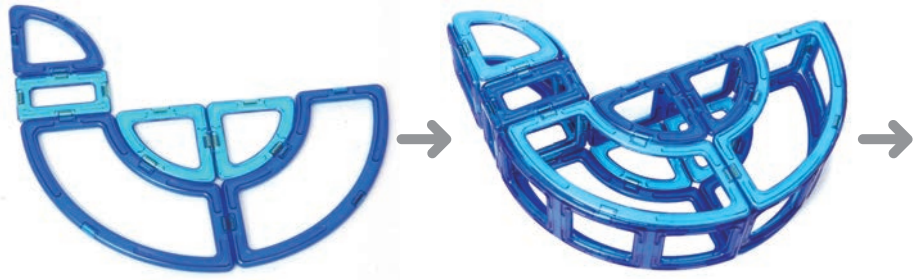
-  Triangle 38
-  Isosceles Triangle 8
-  Square 12
-  Rectangle 3
-  Diamond 2
-  Trapezoid 4
-  Super Triangle 2





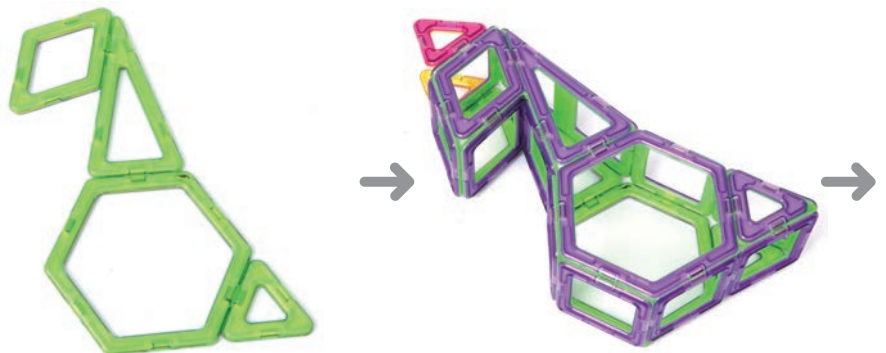
# Pigeon

-  Square 10
-  Mini Rectangle 4
-  Rectangle 1
-  Mini Sector 2
-  Sector 8
-  Arch 1
-  Super Sector 6
-  Super Arch 2
-  Cone 2
-  Right Angled Triangle 2










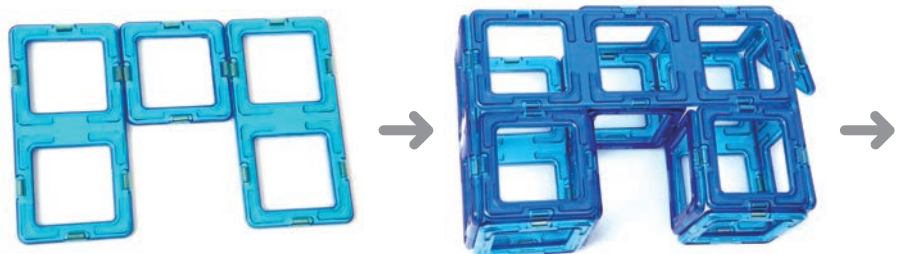
# Squirrel

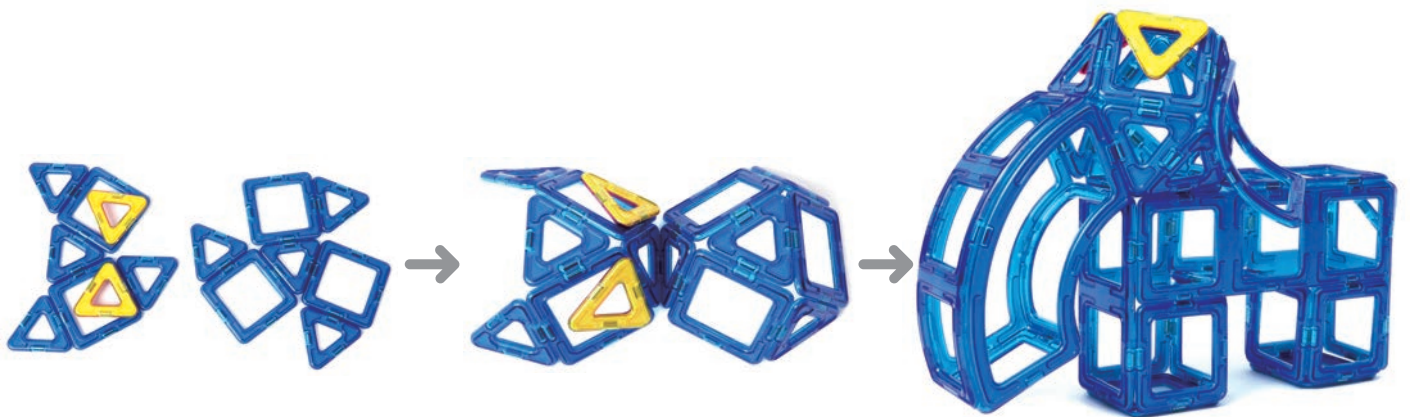
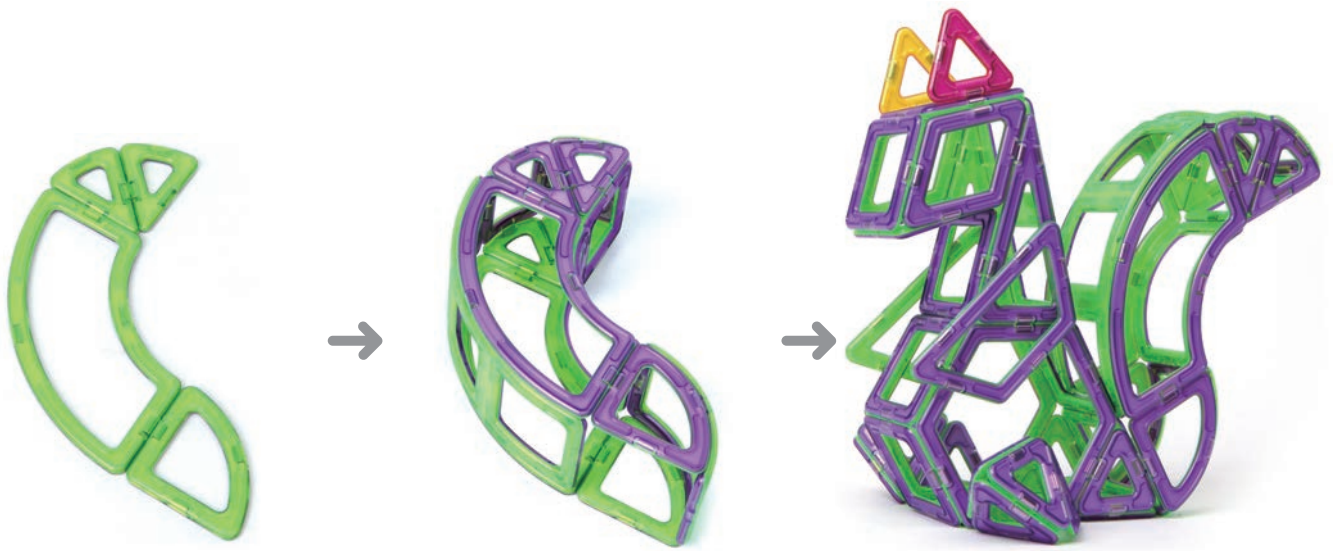
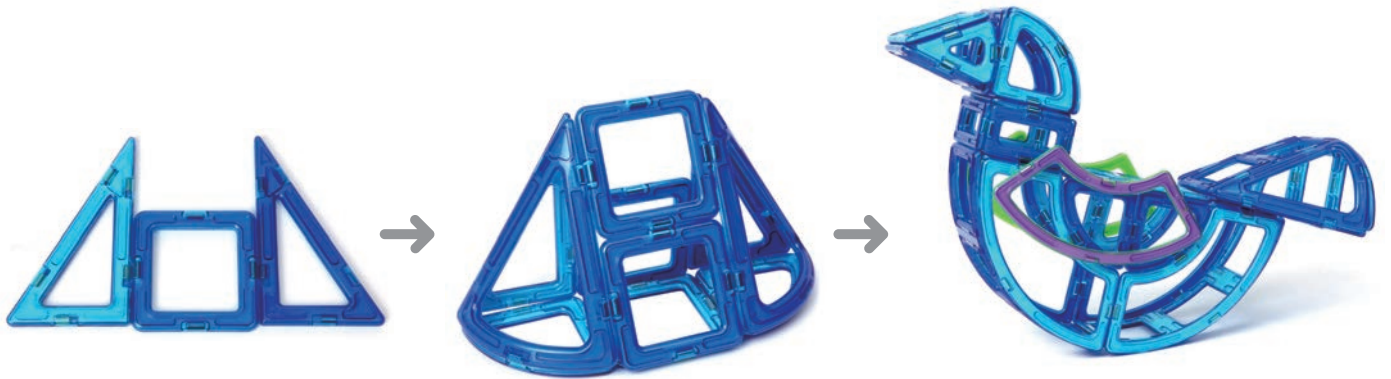
-  Triangle 14
-  Isosceles Triangle 2
-  Square 11
-  Rectangle 1
-  Diamond 2
-  Trapezoid 2
-  Hexagon 2
-  Mini Sector 4
-  Mini Arch 2
-  Sector 2
-  Arch 2
-  Super Sector 2
-  Super Arch 1



# Elephant

-  Triangle 11
-  Square 16
-  Rectangle 4
-  Super Rectangle 1
-  Arch 3
-  Super Sector 2
-  Super Arch 1





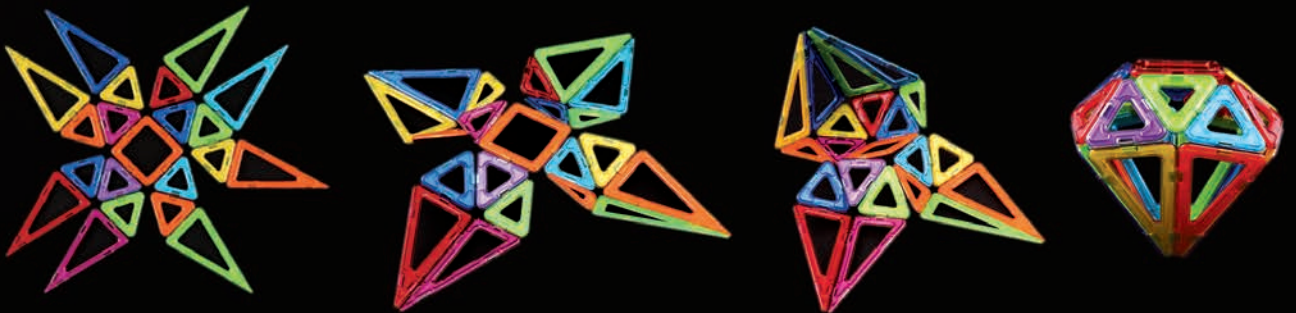


LED





MAGFORMERS JEWELRY WITH  
**LED**













# MAGFORMERS LAND





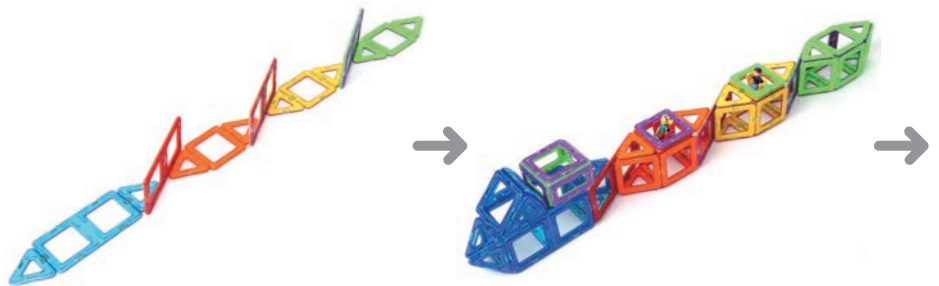
# Ferris wheel

-  Triangle 12
-  Square 24
-  Hexagon 2
-  Hexagon Supporter 2
-  Axis 1
-  Fixing Wheel 2
-  Y Shape Supporter 2
-  Carnival Base 1
-  Boy Square 1
-  Girl Square 1










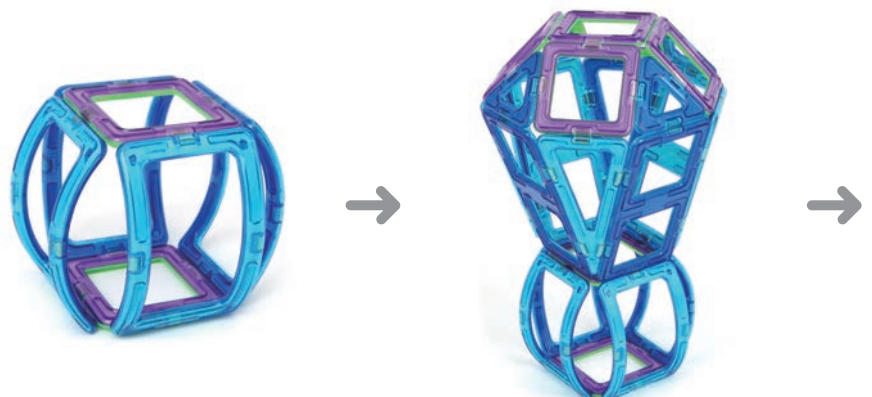
# Train

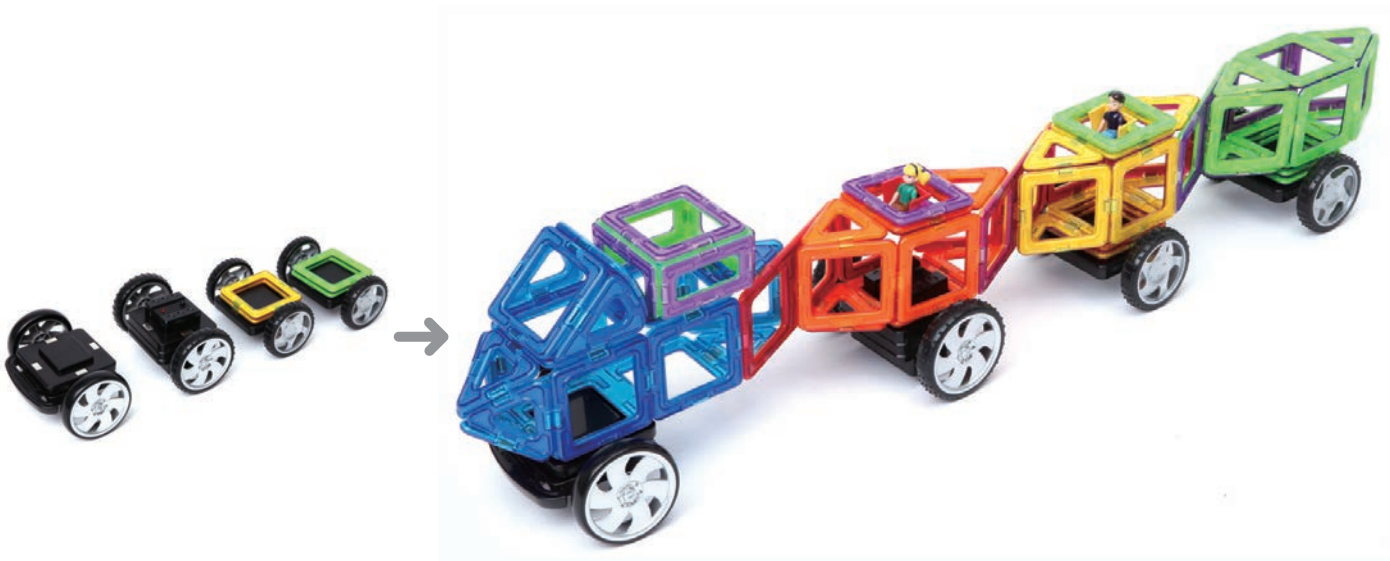
-  Triangle 18
-  Square 30
-  Mini Rectangle 4
-  Rectangle 4
-  Mini Sector 2
-  Mini Arch 1
-  Boy Square 1
-  Girl Square 1
-  R/C Front Wheel 1
-  R/C Motor Wheel 1
-  Wheel 2



# Hot air balloon

-  Triangle 12
-  Isosceles Triangle 4
-  Square 12
-  Rectangle 4
-  Arch 8
-  Super Arch 4
-  Super Sector 8





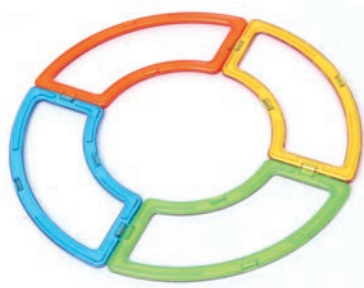
# Castle

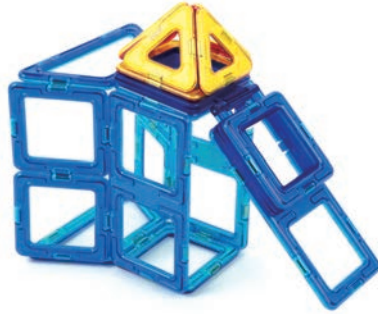
-  Triangle 24
-  Isosceles Triangle 8
-  Square 39
-  Mini Rectangle 4
-  Rectangle 4
-  Diamond 4
-  Trapezoid 4
-  New Super Square 2
-  Hinge 1



# Merry-go-round

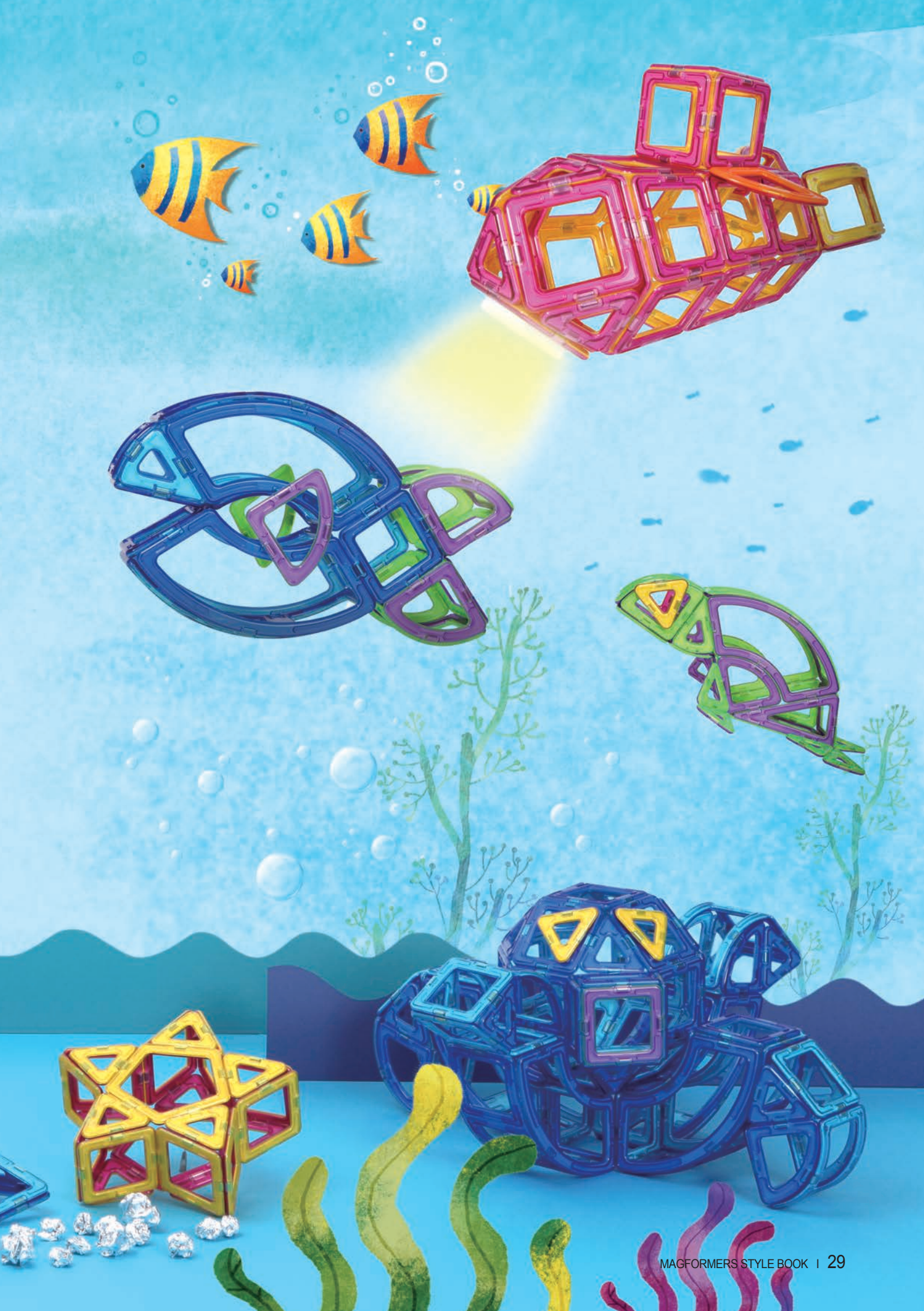
-  Triangle 12
-  Square 16
-  Rectangle 4
-  Diamond 4
-  Trapezoid 4
-  Sector 8
-  Arch 4
-  Super Sector 8
-  Super Arch 4
-  Cone 4
-  R/C Front Wheel 1
-  R/C Motor Wheel 1
-  Wheel 2
-  Boy Square 1
-  Girl Square 1





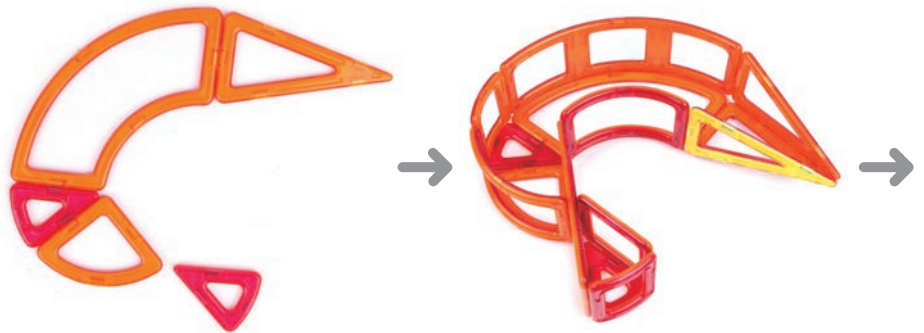
# UNDER THE SEA





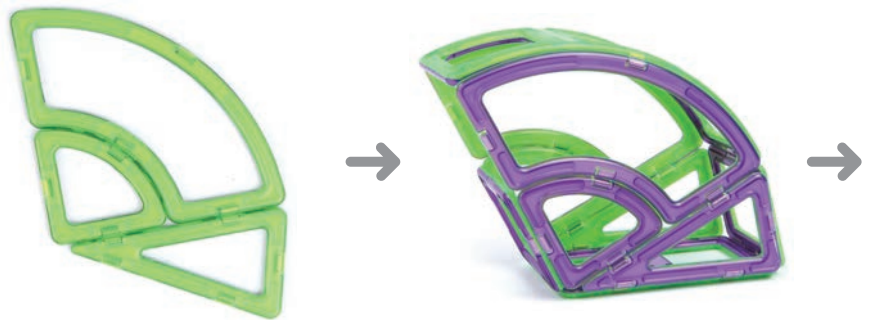
# Prawn

-  Triangle 4
-  Isosceles Triangle 7
-  Square 1
-  Rectangle 1
-  Mini Sector 4
-  Mini Arch 2
-  Sector 2
-  Arch 2
-  Super Sector 2
-  Super Arch 1



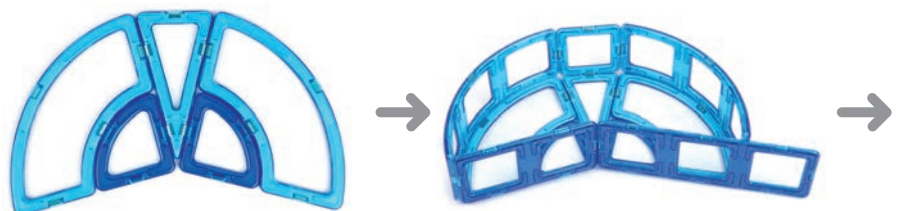
# Turtle

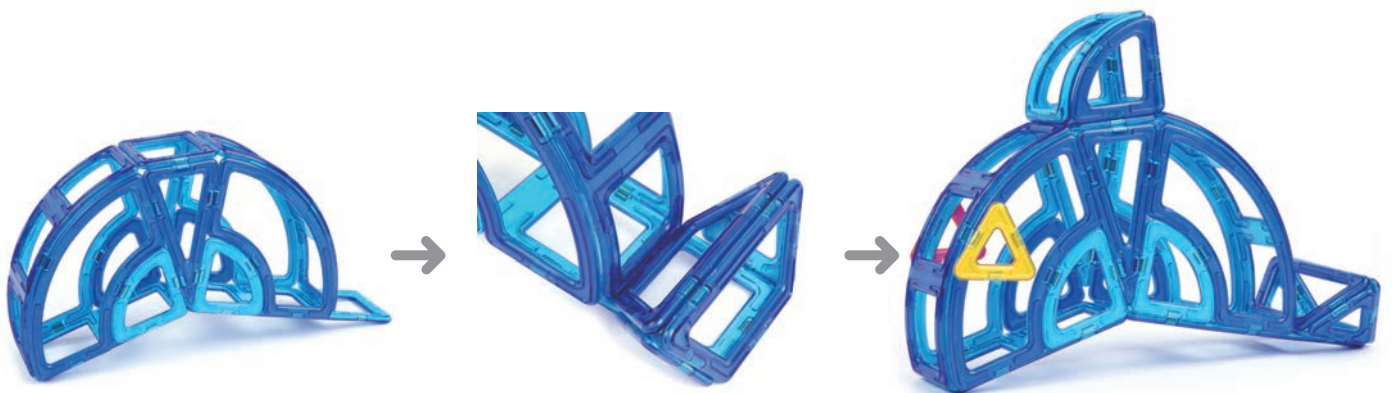
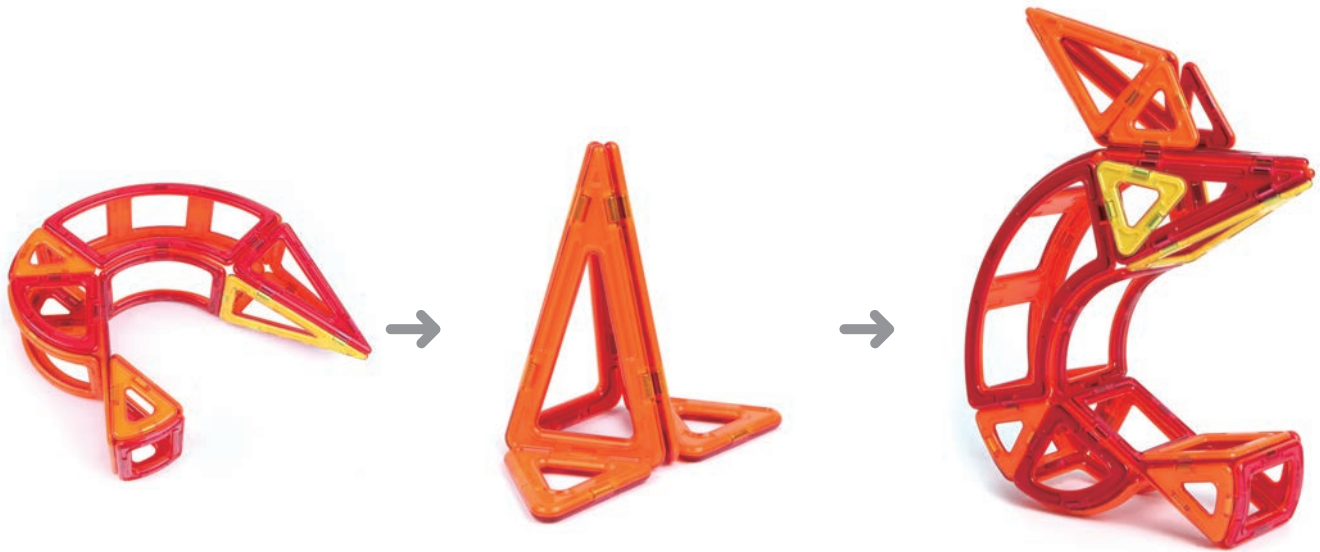
-  Triangle 11
-  Isosceles Triangle 2
-  Square 5
-  Mini Sector 2
-  Mini Arch 1
-  Sector 4
-  Arch 1
-  Super Sector 2
-  Super Arch 1









# Dolphin

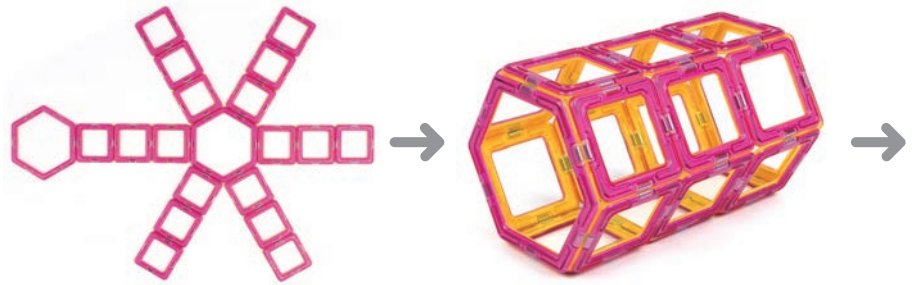
-  Triangle 4
-  Isosceles Triangle 2
-  Square 2
-  Rectangle 1
-  Trapezoid 2
-  Super Rectangle 1
-  Sector 6
-  Arch 1
-  Super Sector 4
-  Super Arch 2












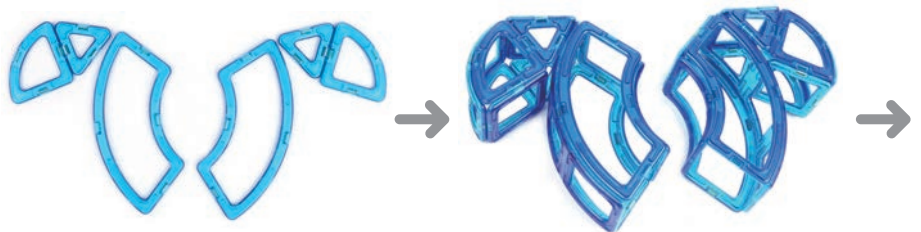
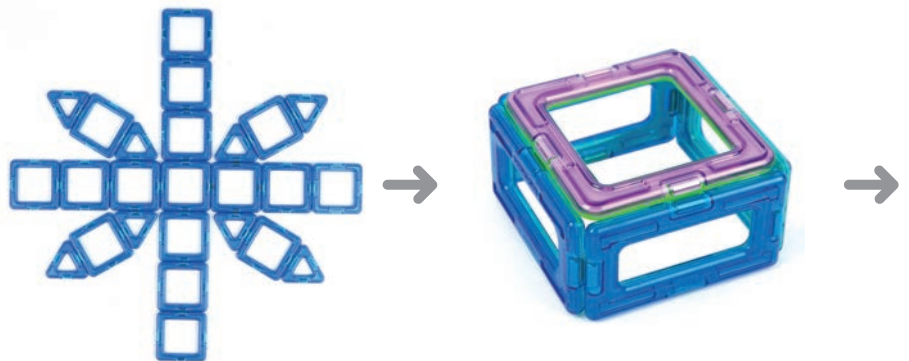
# Submarine

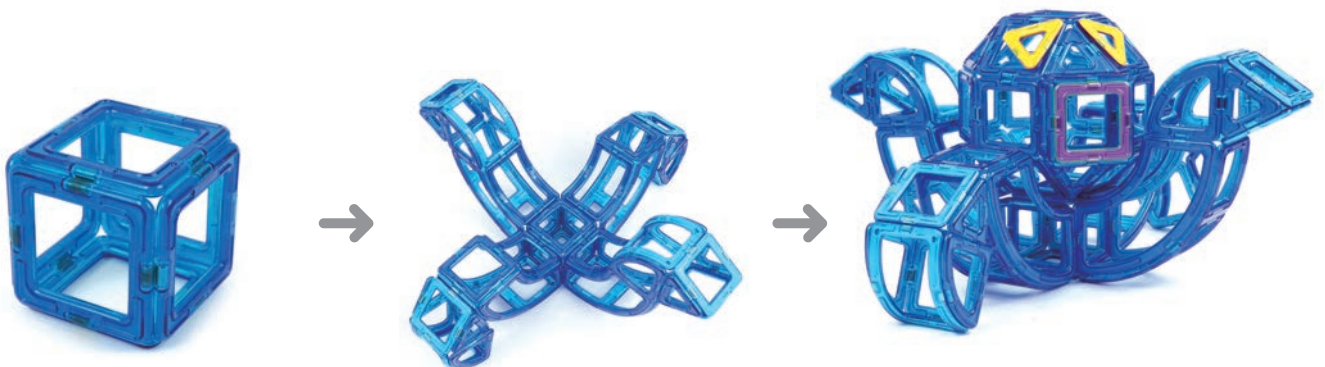
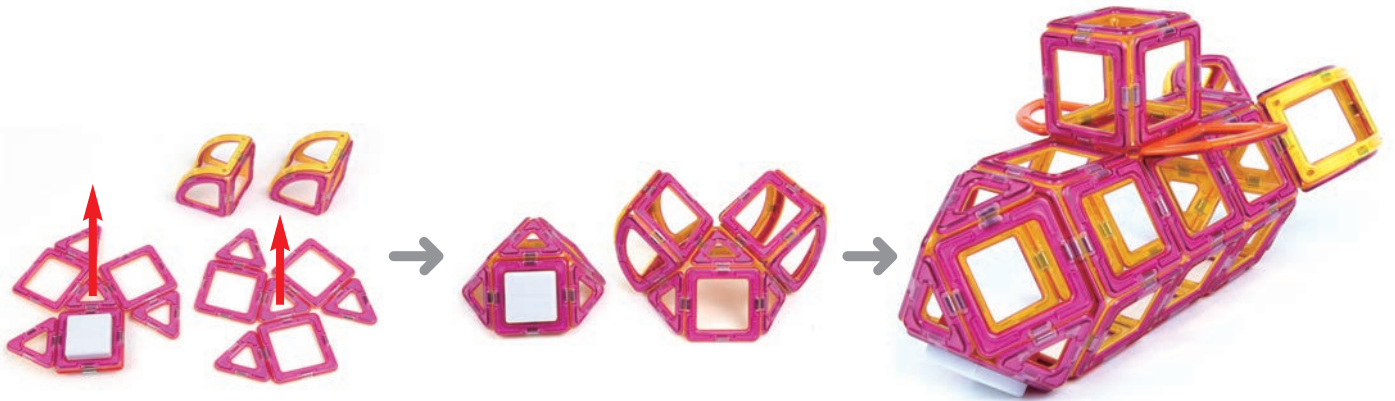
-  Triangle 8
-  Square 33
-  Hexagon 2
-  Sector 6
-  Arch 2
-  LED Lighted Box 1



# Octopus

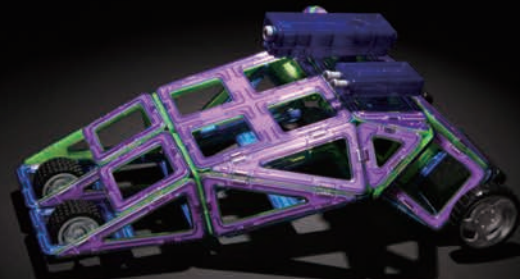
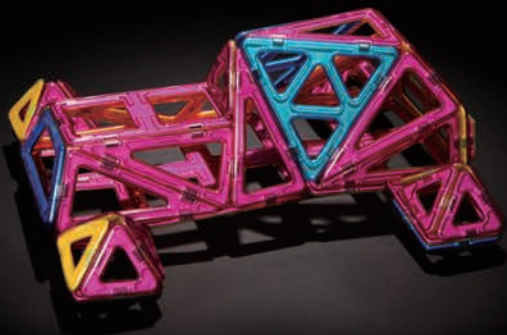
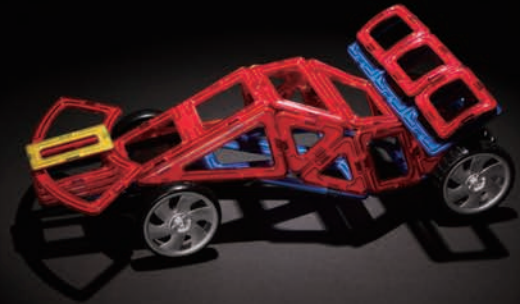
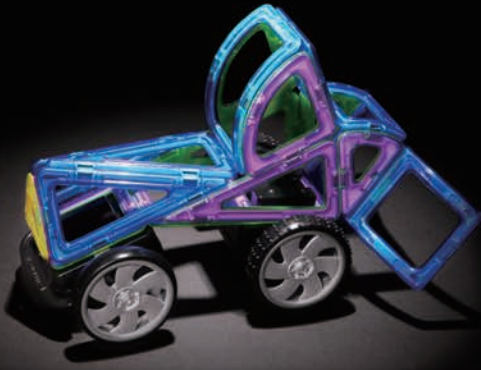
-  Triangle 18
-  Square 34
-  Mini Rectangle 4
-  Sector 8
-  Arch 8
-  Super Sector 8
-  Super Arch 4












# CAR with R/C





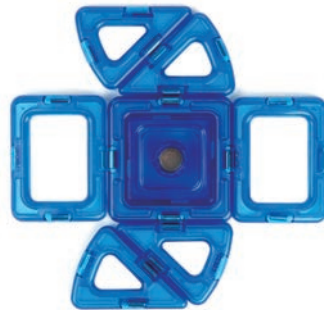
# Bumblebee

-  Square 13
-  Mini Rectangle 4
-  Super Rectangle 1
-  Mini Sector 4
-  Mini Arch 2
-  R/C Front Wheel 1
-  R/C Motor Wheel 1
-  Blocks 3




# Ironhide

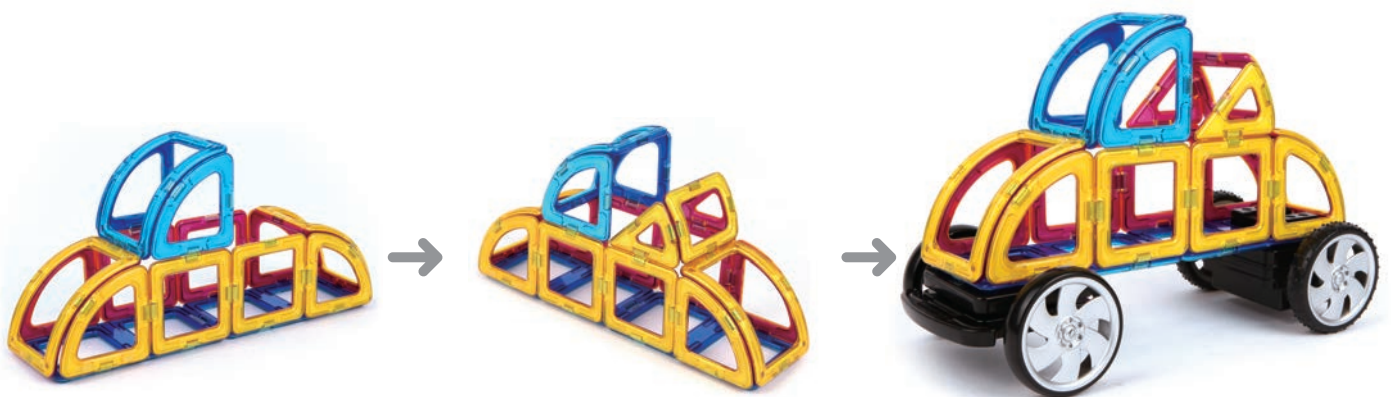
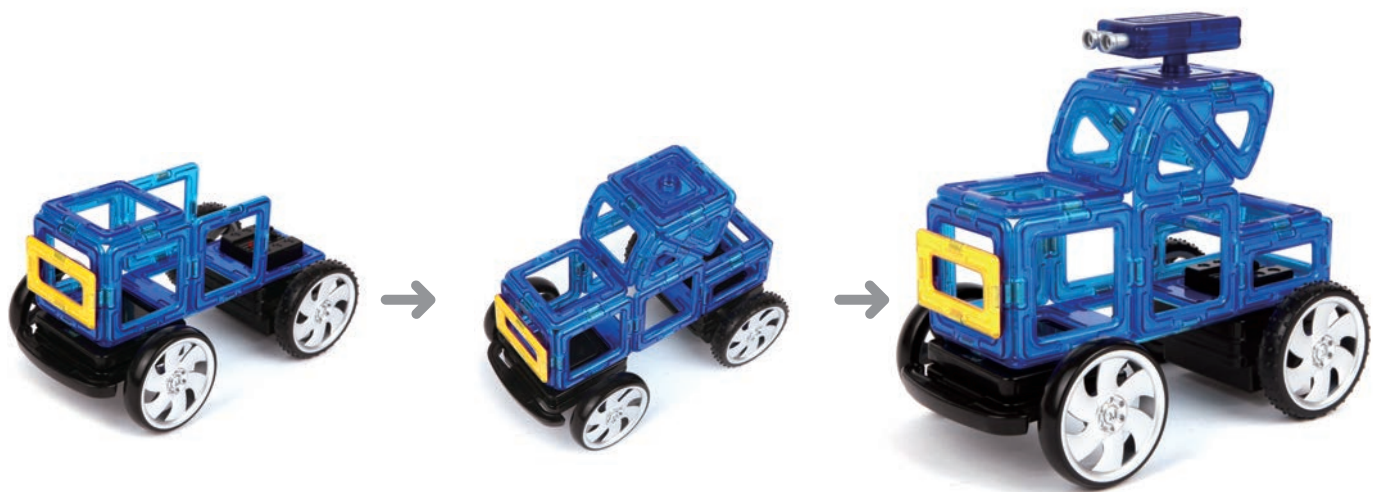
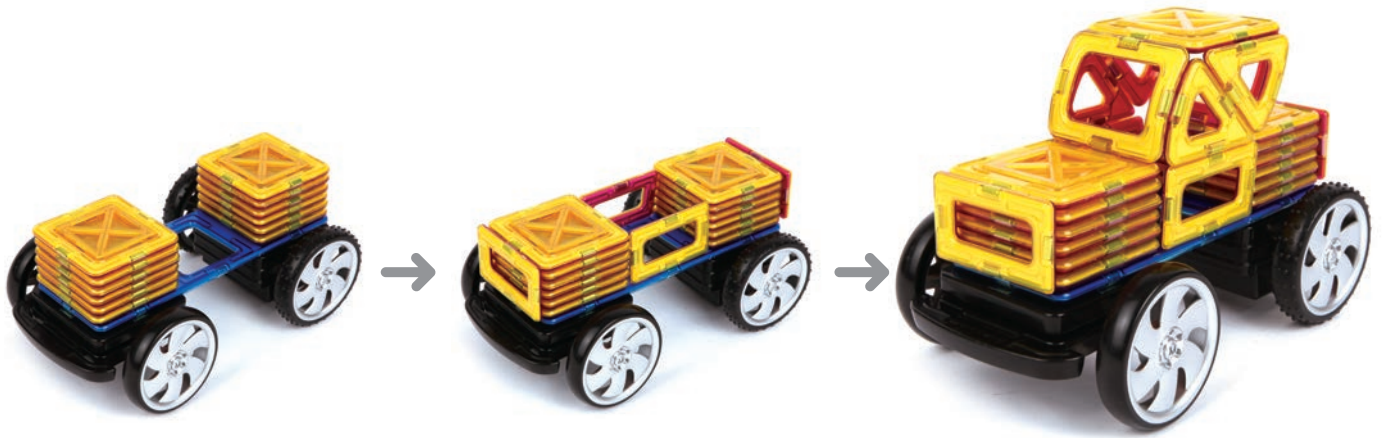
-  Square 8
-  Mini Rectangle 4
-  Super Rectangle 1
-  Mini Sector 4
-  Mini Arch 2
-  R/C Front Wheel 1
-  R/C Motor Wheel 1
-  Small Gun 1
-  Rotating Block 1



# New beetle convertible

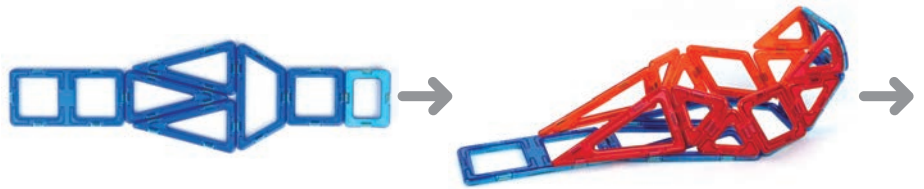
-  Square 4
-  Rectangle 2
-  Mini Sector 2
-  Mini Arch 1
-  Sector 6
-  Arch 3
-  R/C Front Wheel 1
-  R/C Motor Wheel 1
















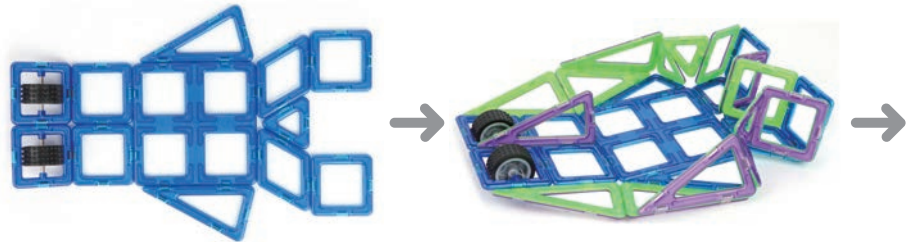
# F1 Car

-  Triangle 6
-  Isosceles Triangle 5
-  Square 4
-  Mini Rectangle 1
-  Rectangle 2
-  Diamond 2
-  Trapezoid 3
-  Super Rectangle 1
-  Mini Sector 2
-  Mini Arch 4
-  Super Sector 1
-  R/C Front Wheel 1
-  R/C Motor Wheel 1



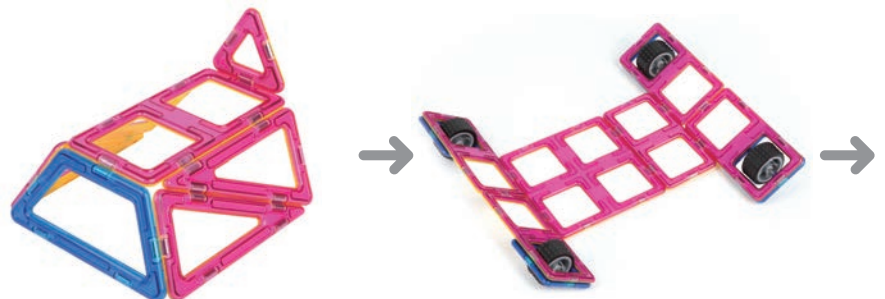
# Bat Car

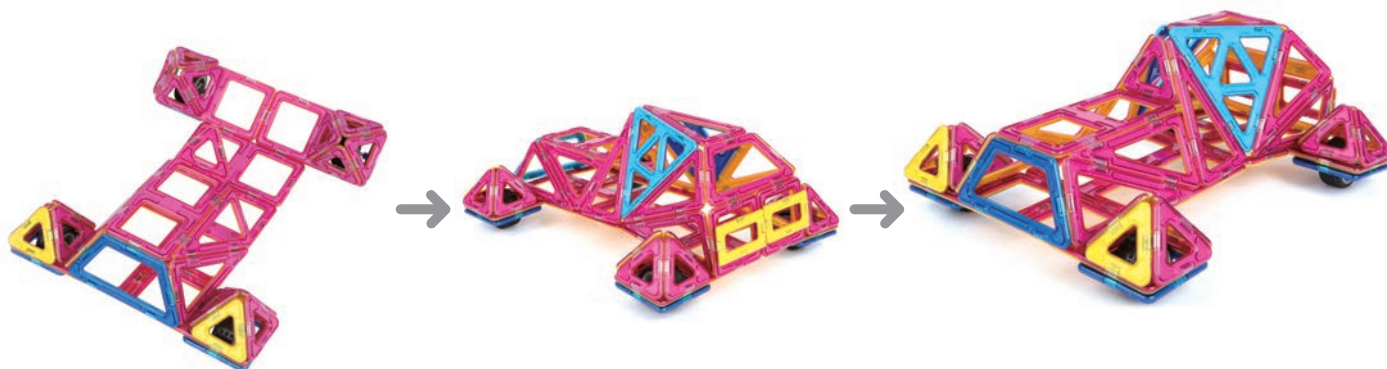
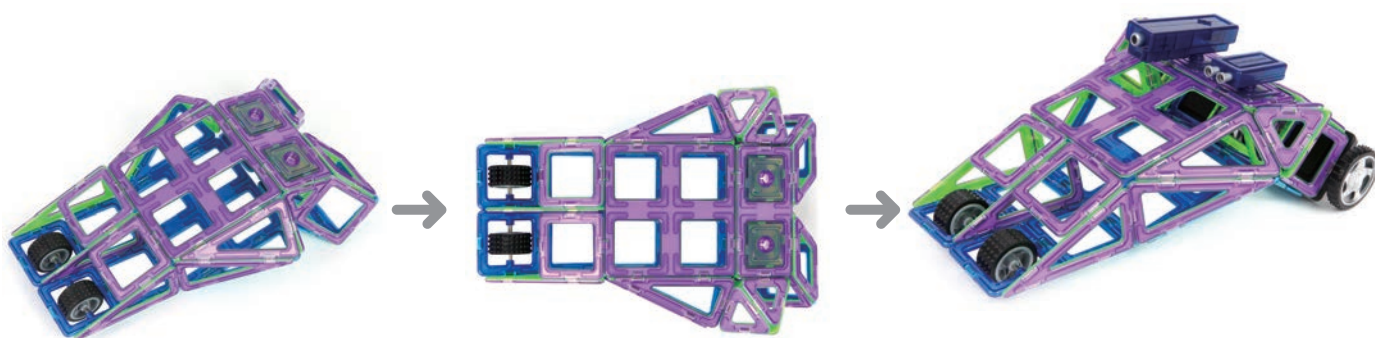
-  Triangle 9
-  Isosceles Triangle 9
-  Square 12
-  Rectangle 1
-  Diamond 4
-  New Super Square 2
-  Wheel 2
-  Single Wheel 2
-  Big Gun 1
-  Small Gun 1
-  Rotating Block 2



# Classic Car

-  Triangle 17
-  Isosceles Triangle 11
-  Square 2
-  Mini Rectangle 2
-  Rectangle 6
-  Trapezoid 2
-  Super Triangle 2
-  New Super Square 1
-  Single Wheel 4












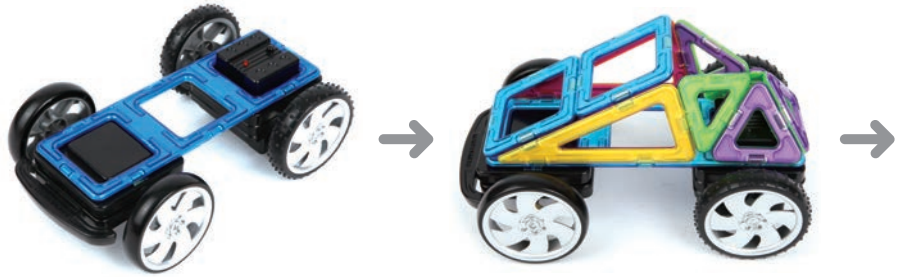
# CITY














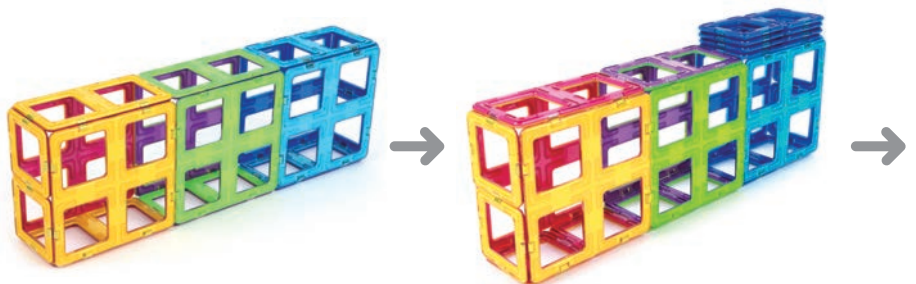
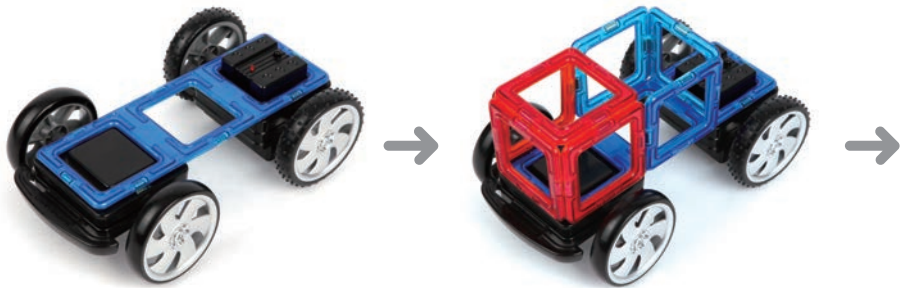
# Car

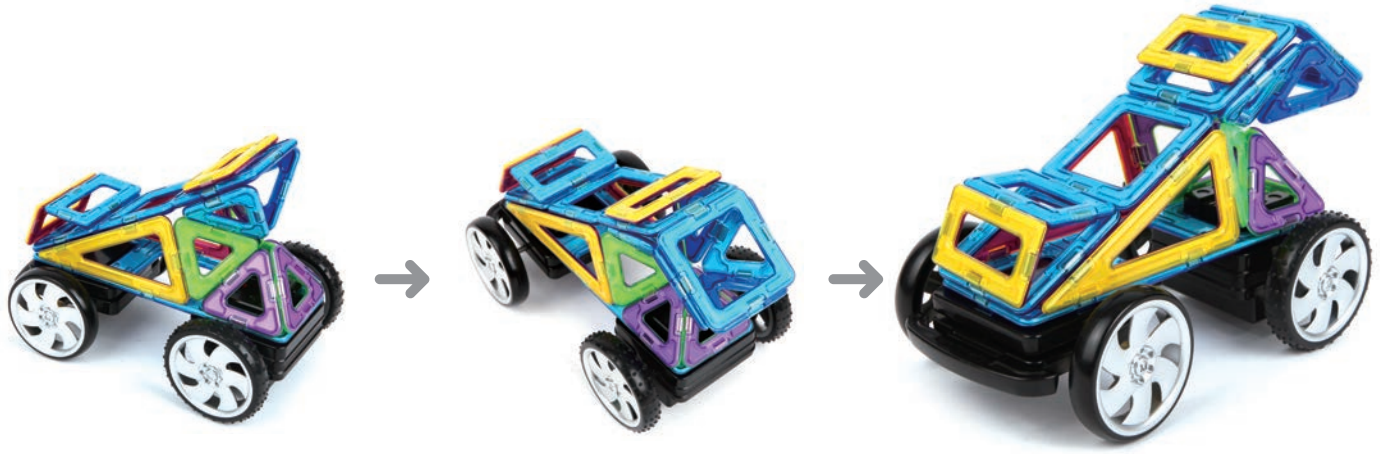
-  Triangle 10
-  Isosceles Triangle 2
-  Square 4
-  Mini Rectangle 3
-  Super Rectangle 1
-  R/C Front Wheel 1
-  R/C Motor Wheel 1



# Optimus prime

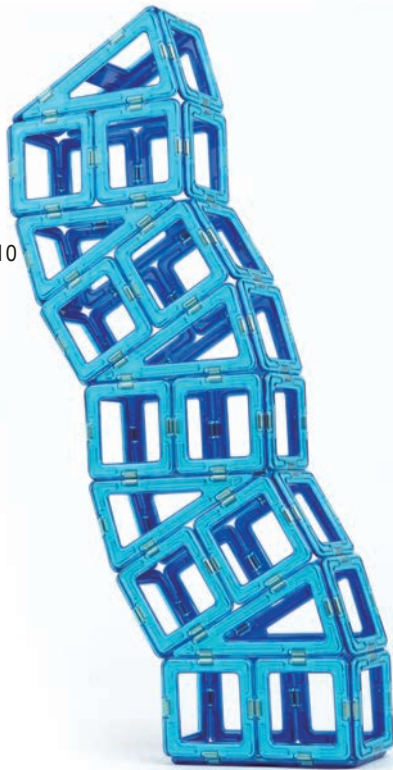
-  Isosceles Triangle 2
-  Triangle 24
-  Mini Rectangle 4
-  Rectangle 4
-  New Super Square 6
-  Super Rectangle 1
-  R/C Front Wheel 1
-  R/C Motor Wheel 1
-  Wheel 2





# Leaning Tower of Pisa

- △ Isosceles Triangle 10
- Square 35
- ▭ Rectangle 2



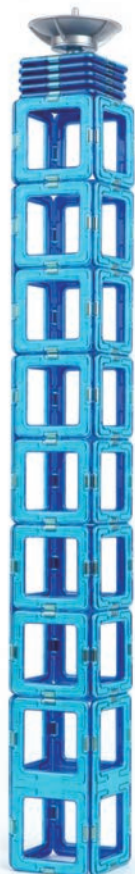
# Wavy Tower

- Square 2
- △ Mini Sector 2
- ◡ Mini Arch 1
- ⌒ Arch 4
- ⌒ Super Sector 8
- ⌒ Super Arch 4



# Broadcasting

- Square 33
- ▭ Rectangle 4
- ⦿ Antenna 1
- ⬢ Rotating Block 1







# Art Tower

- Square 2
- ▭ Rectangle 3
- ⊕ New Super Square 2
- △ Mini Sector 4
- ◡ Mini Arch 2
- ⊕ Cube Connector 5
- ⬢ Triangle Block 4
- ⬡ Square Base 2
- ⬢ Circle Base 3











**MAGFORMERS®**

## Galata Tower

-  Rectangle 4
-  Sector 8
-  Arch 8
-  Cone 4







## Taipei 101

-  Triangle 2
-  Cube Connector 4
-  Triangle Connector 2
-  Square Tube 2
-  Square Base 4
-  Circle Tube 2
-  Circle Base 3
-  Door 2



## Space Needle

-  Triangle 8
-  Isosceles Triangle 6
-  Square 13
-  Rectangle 4
-  Hexagon 1



## LingLong Tower

-  Triangle 10
-  Square 11
-  Rectangle 4
-  Diamond 4





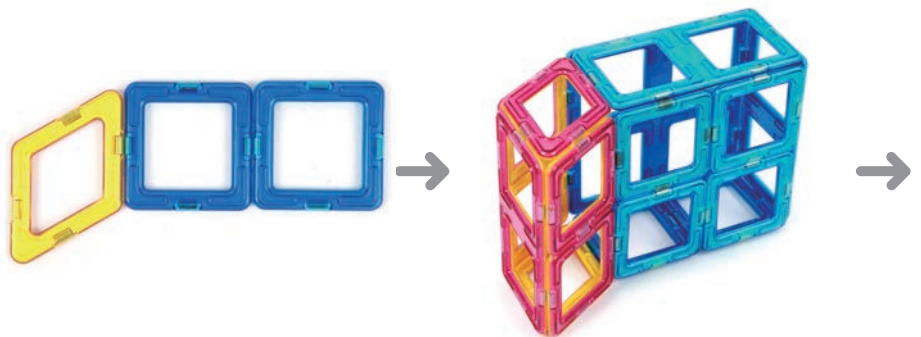
**BIRTHDAY  
PARTY**

HAPPY BIRTHDAY








# Camera

-  Triangle 3
-  Square 20
-  Rectangle 4
-  Diamond 4
-  LED Lighted Box 1



# Saxophone

-  Triangle 13
-  Isosceles Triangle 3
-  Square 12
-  Rectangle 2
-  Hexagon 1



# Cake

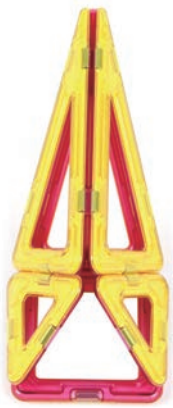
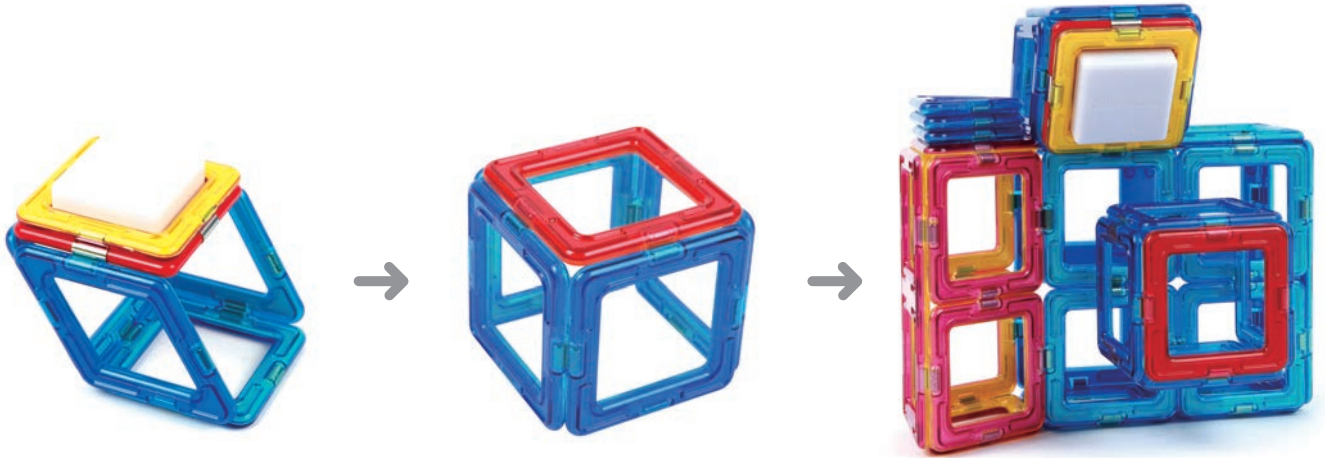
-  Mini Sector 8
-  Sector 4
-  Arch 4
-  Super Sector 4
-  Super Arch 4



# Gift box

-  Triangle 4
-  Square 18





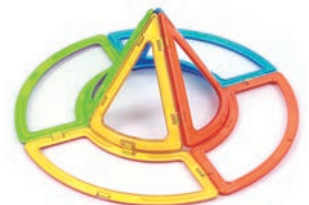
## Cone hat

△ Cone 4



## Witch hat

◁ Super Sector 4  
△ Cone 4



# LED PYRAMID

Change the regular hexahedron to the rhombicuboctahedron using the pyramid pieces. It could make an emotional lighting with LED.

Triangle 6 Pyramid 6 LED Lighted Box 1



# LED CARNIVAL

**LED CARNIVAL-Make a Ferris wheel using carnival accessories.  
How about creating the night view of the amusement park with LED?**

Triangle 12 Square 24 Hexagon 2 Hexagon Supporter 2 Axis 1  
Fixing Wheel 2 Y Shape Supporter 2 Carnival Base 1  
Boy Square 1 Girl Square 1 LED Lighted Box 1





## HEART

There is a saying that the love has to be expressed. How about expressing the love to family with the heart made by Magformers?

Square 24 Sector 8 Arch 4

# PET

Put the wheels on my own pet made with Magformers and have a walk. Why don't you create a lovely name for your pet?

Triangle 1 Square 15 Mini Rectangle 1 Rectangle 1 Trapezoid 2 Arch 2 Wheel 2



# ROBOT

Don't you think you feel safe to make a robot which could be your friend and hero?

Triangle 15 Square 30 Mini Rectangle 3 Rectangle 3 Super Rectangle 1 Mini Sector 6  
Mini Arch 3 Sector 8 Arch 6 Super Sector 4 Super Arch 2 LED Lighted Box 1  
Blocks 1 Cards 1 Small Gun 1 Big Gun 1 Antenna 1 Rotating Block 1 Pulley Block 1  
Crane 1 Cube Connector 6 Triangle Connector 1 Triangle Block 2 Square Tube 2  
Square Base 4 Circle Tube 1 Circle Base 4 Pyramid 4






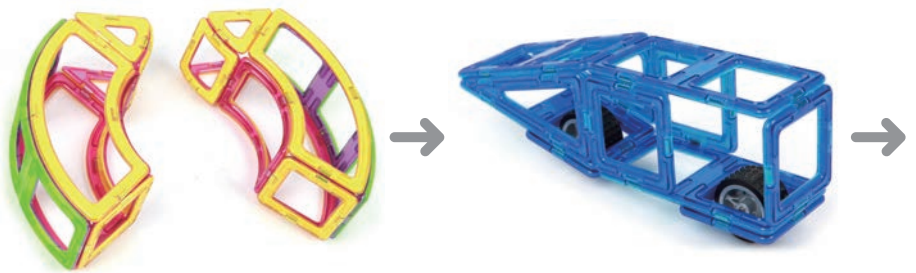
# PLANE

The plane flying around the vast sky  
and enjoying the freedom.  
By making the plane using the transform accessories,  
have a dream of the pilot.





























Triangle 2 Isosceles Triangle 2 Square 7 Mini Rectangle 4 Rectangle 4  
Mini Sector 4 Mini Arch 2 Arch 2 Super Sector 4 Super Arch 2 Single Wheel 2  
Big Gun 1 Small Gun 1 Propeller 1 Antenna 1 Rotating Block 3

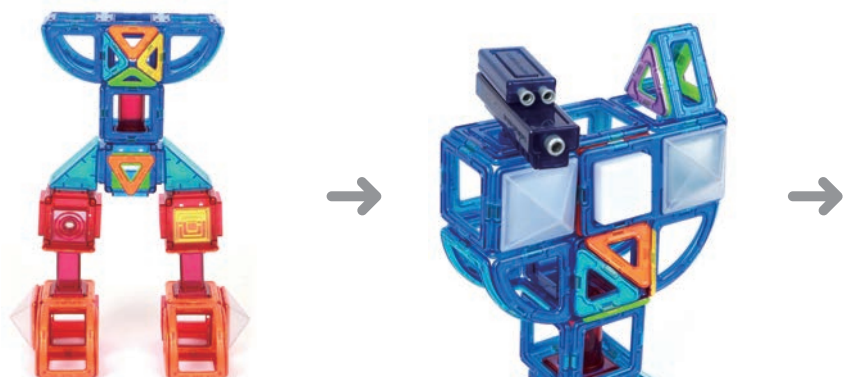
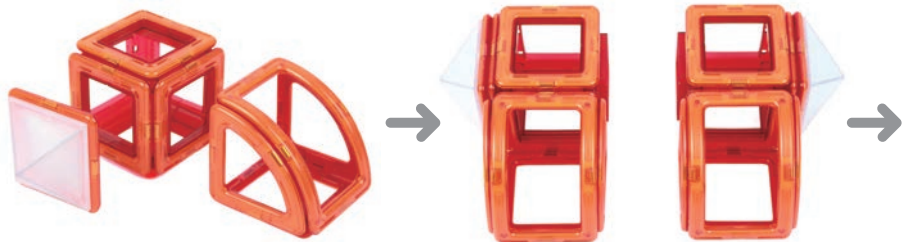
# PLANE

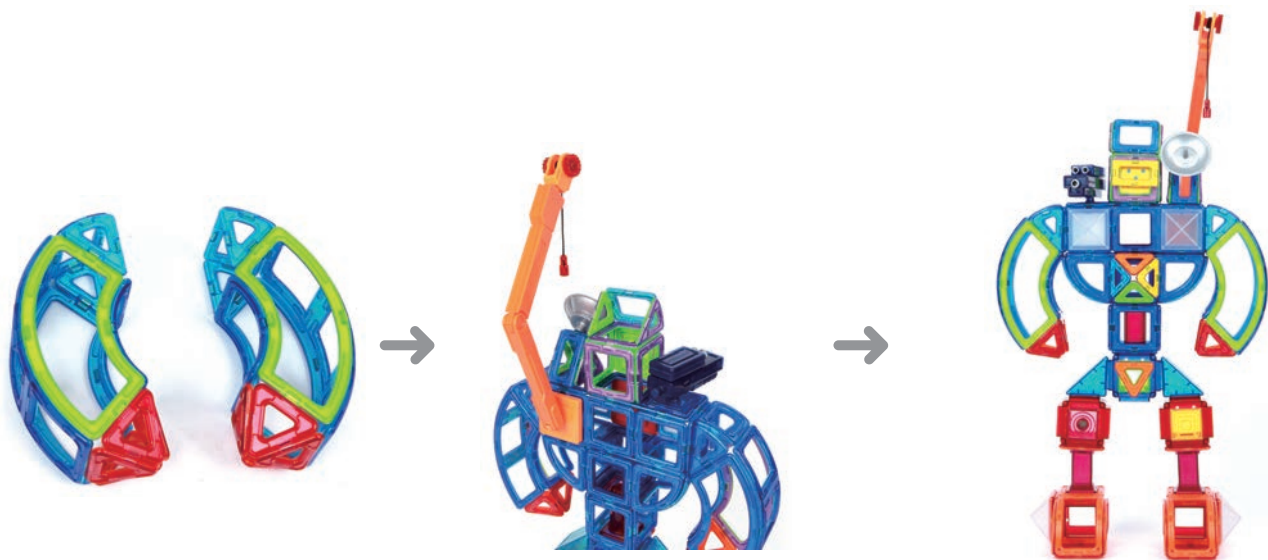
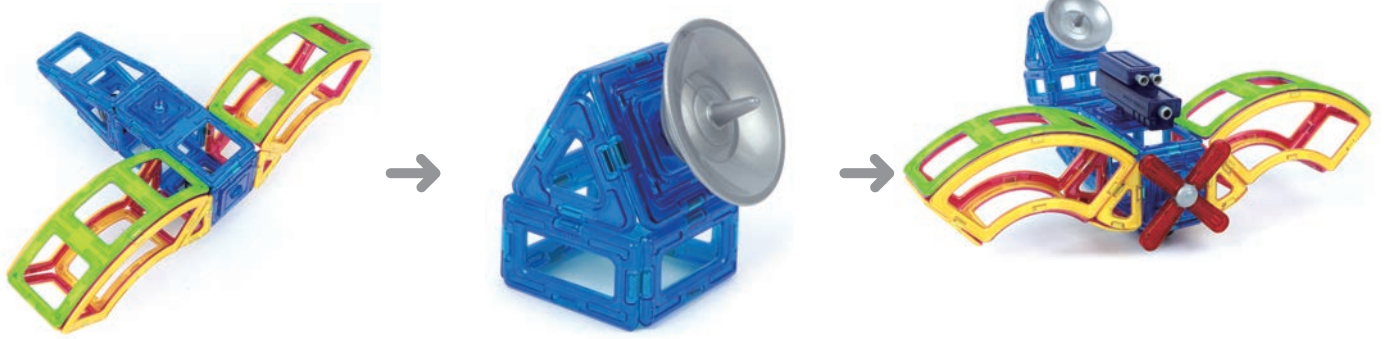
-  Triangle 2
-  Isosceles Triangle 2
-  Square 7
-  Mini Rectangle 4
-  Rectangle 4
-  Mini Sector 4
-  Mini Arch 2
-  Arch 2
-  Super Sector 4
-  Super Arch 2
-  Single Wheel 2
-  Big Gun 1
-  Small Gun 1
-  Propeller 1
-  Antenna 1
-  Rotating Block 3



# ROBOT

-  Triangle 15
-  Square 30
-  Mini Rectangle 3
-  Rectangle 3
-  Super Rectangle 1
-  Mini Sector 6
-  Mini Arch 3
-  Sector 8
-  Arch 6
-  Super Sector 4
-  Super Arch 2
-  LED Lighted Box 1
-  Blocks 1
-  Cards 1
-  Big Gun 1
-  Small Gun 1
-  Antenna 1
-  Rotating Block 1
-  Pulley Block 1
-  Crane 1
-  Cube Connector 6
-  Triangle Connector 1
-  Triangle Block 2
-  Square Tube 2
-  Square Base 4
-  Circle Tube 1
-  Circle Base 4
-  Pyramid 4



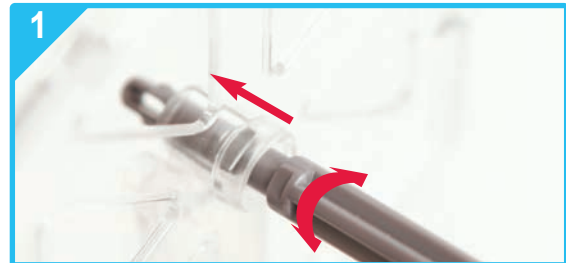
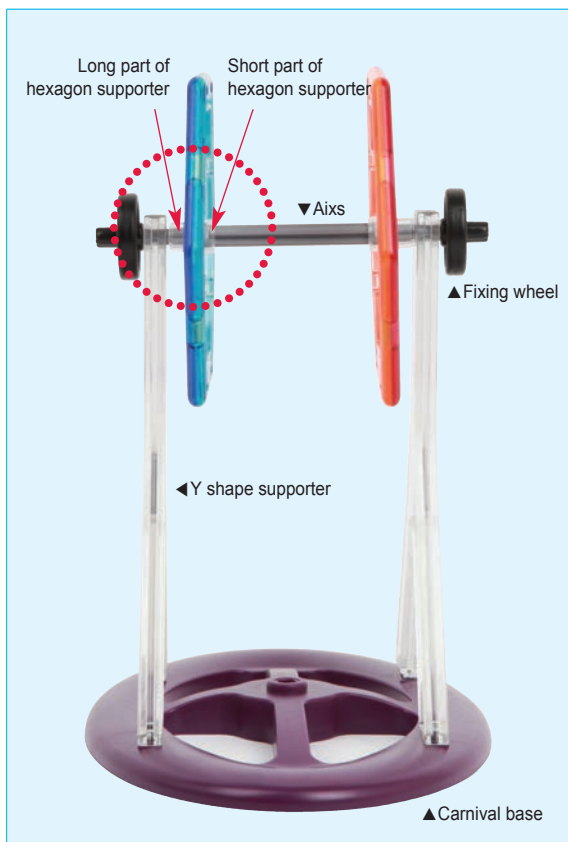


# How to assemble-carnival / blocks & cards

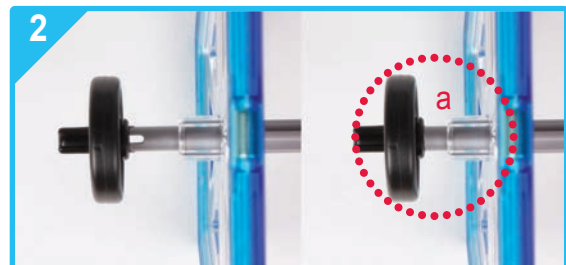
## How to assemble carnival accessories

### Assembly of the Axis

The parts that are connected to the axis of the hexagon supporter have a long one and a short one. Connect it to the axis by making a long one get out to the outside and making a short one face towards the inside. Assemble it to become the shape as below.



Until feeling the square groove of the axis is hooked in the supporter, push it in with turning in the direction of short one of hexagon supporter.

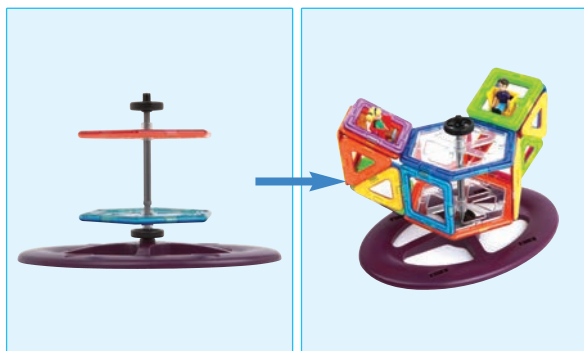


If pushing the fixing wheel strongly till becoming the state of "a", it is combined with the sound of "pop"



The assembly of supporter : Connect the assembled axis directly to carnival base and make the rotation basket.

### The assembly of Supporter



Connect the assembled axis directly to carnival base and make the rotation basket.

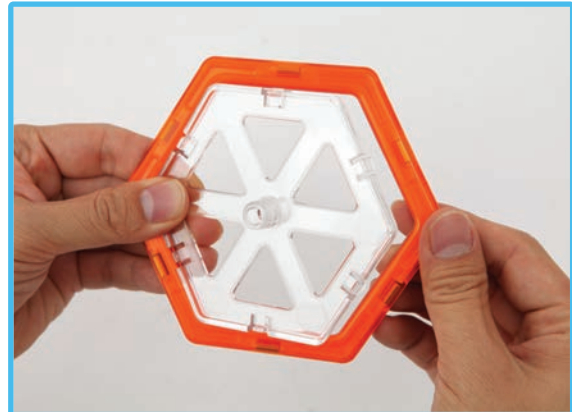


Make a Ferris wheel and a Viking with Y shape supporters.

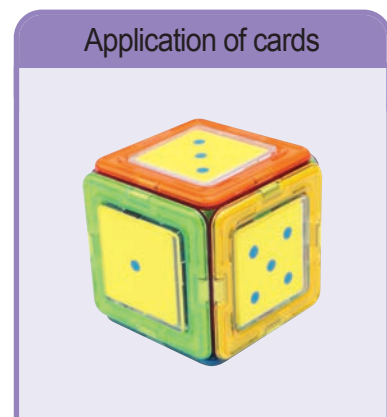
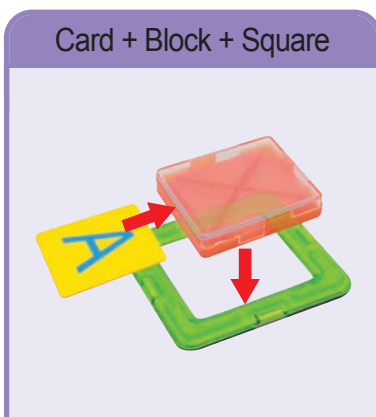
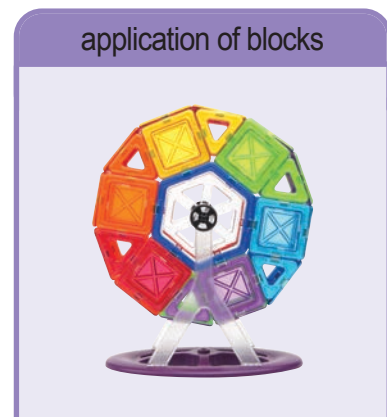
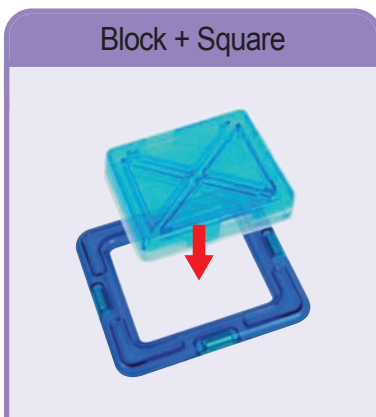
# How to assemble - carnival / blocks & cards

## Hexagon supporters + Hexagon pieces

The hexagon supporters and the hexagon pieces are packed as assembled. They can be separated.



## Blocks and Cards

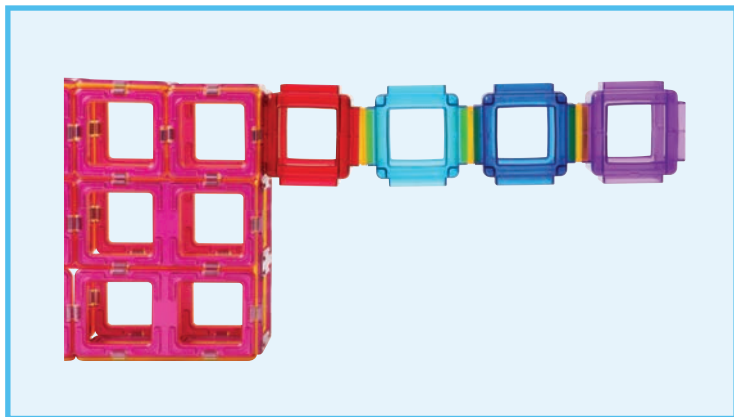


# How to use-Extension pieces

## Extension pieces

Extension pieces can be used together with Magformers pieces or only extension pieces.

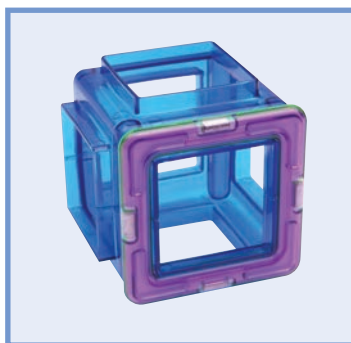
- With Extension Pieces
  - More Fun
  - Diverse Activities
  - Stronger Connection



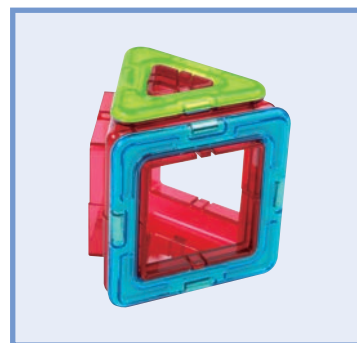
### ● "HOW TO USE"



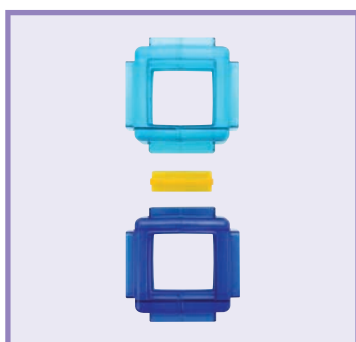
Triangle + Triangle Connector



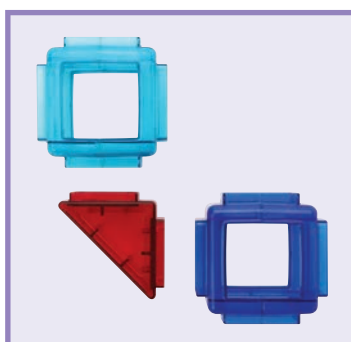
Square + Cube Connector



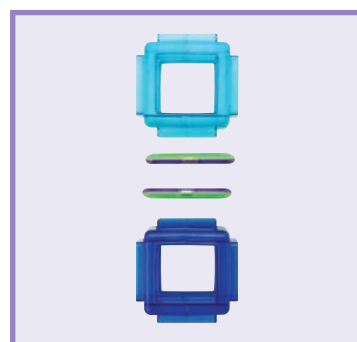
Triangle, Square + Triangle Prism Connector



Cube Connector + Square Block



Cube Connector + Triangle Block



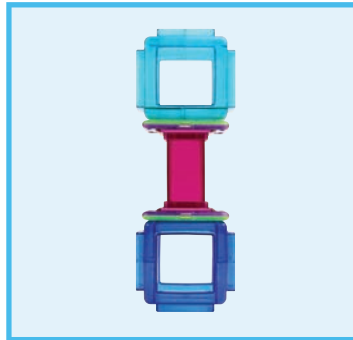
Cube Connector + Square piece

# How to assemble -carnival / blocks & cards

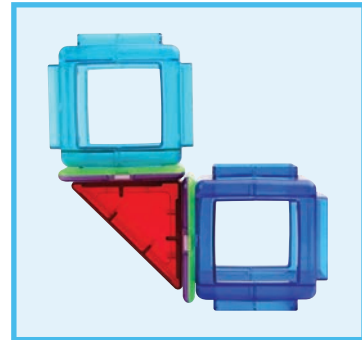
## Extension pieces



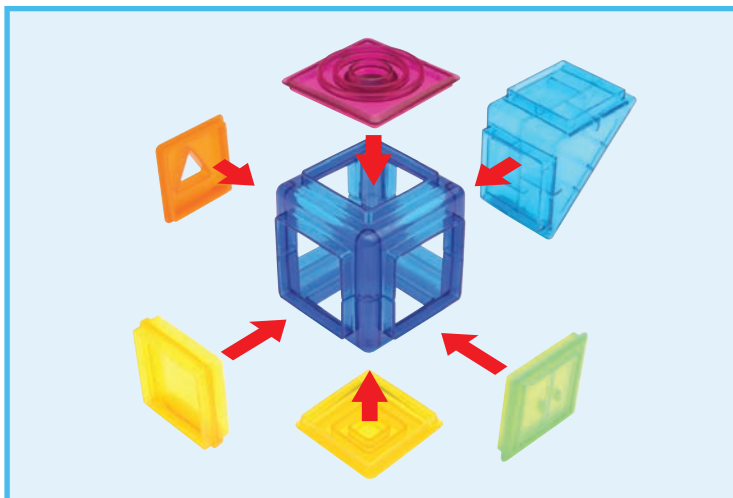
Cube connector + Square piece



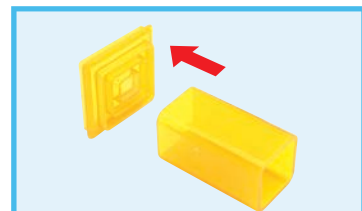
Cube connector + Square piece  
+ Circle Tube/Base



Cube connector + Square piece  
+ Triangle block



Circle Tube + Circle Base



Square Tube + Square Base

### ● Applications



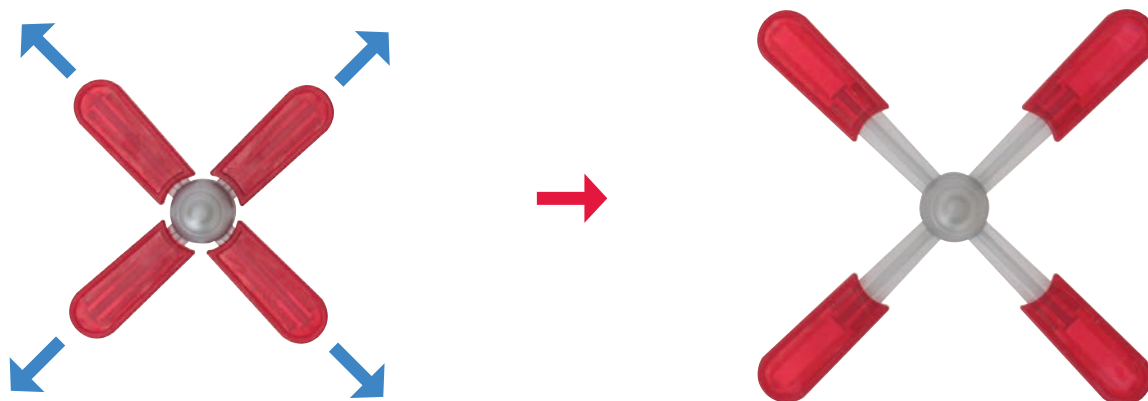
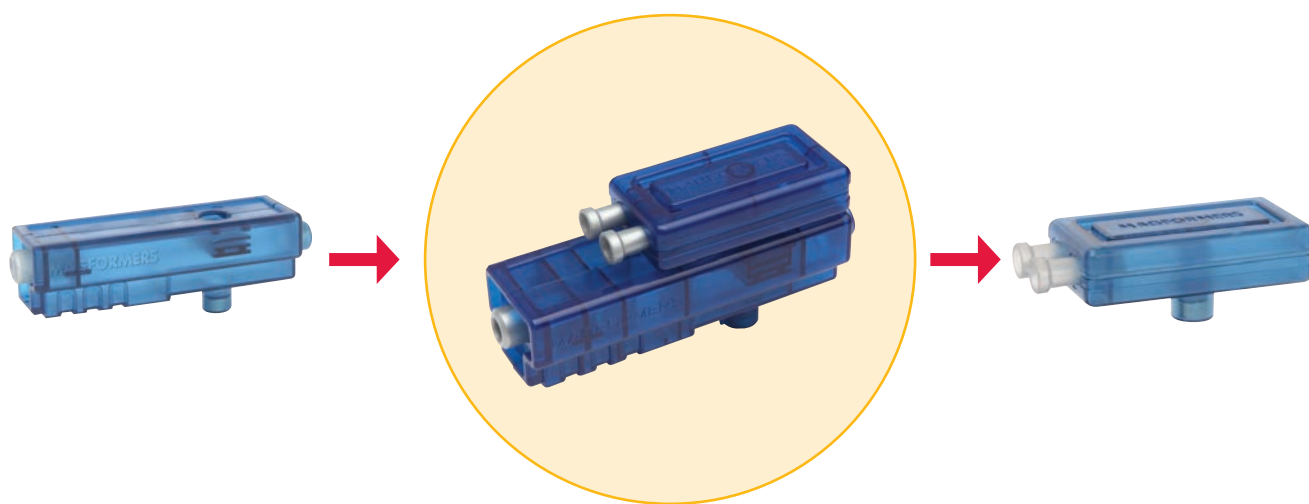
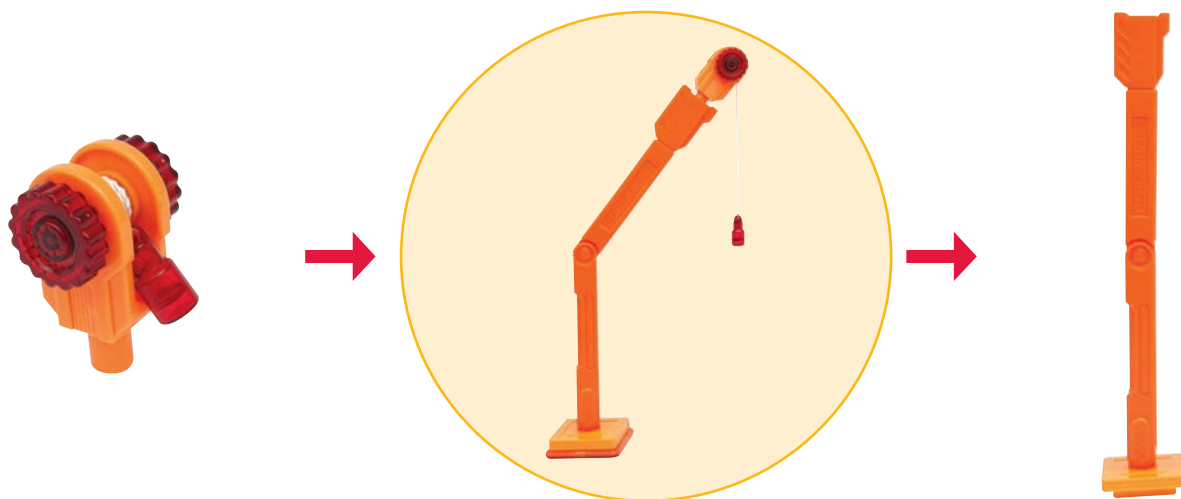
Castle



Car

□ The extension pieces are not compatible with XL CRUISERS pieces.

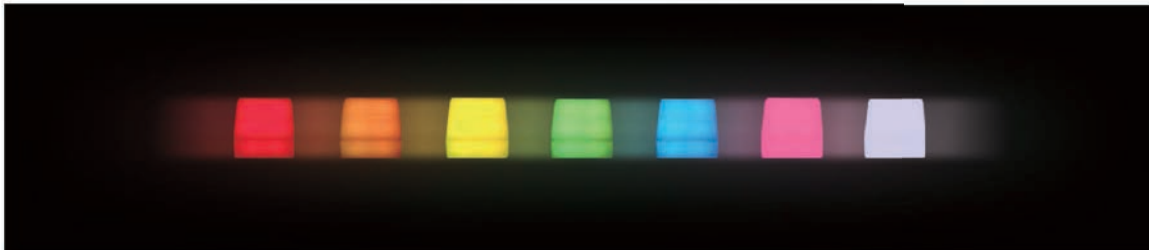
# How to assemble-Transform Set and Power Construction set.



# LED LIGHTED BOX

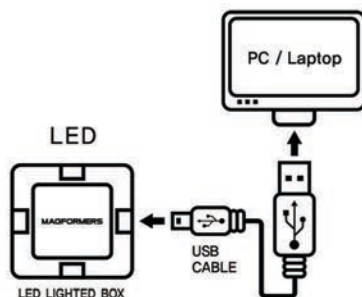
## LED LIGHTED BOX

- LED LIGHTED BOX helps children make models beyond what they imagine with its various vivid colors. Please breathe new life into many Magformers models with the LED LIGHTED BOX.

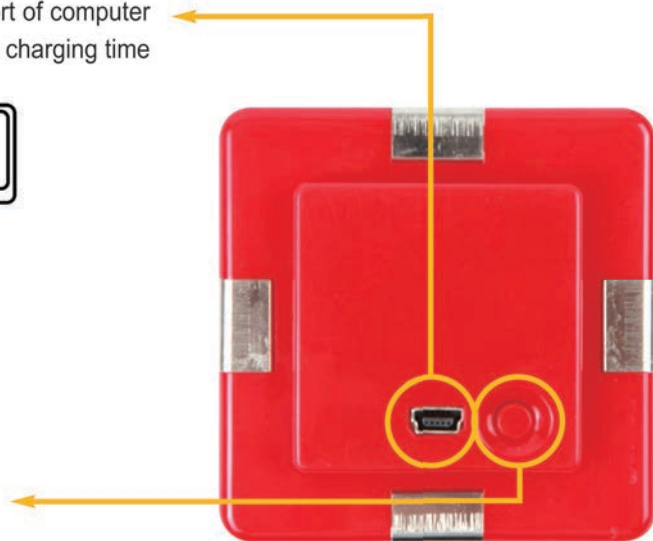


## How to Charge LED LIGHTED BOX

Charge the LED block by connecting to USB port of computer with the enclosed USB CABLE. The reasonable charging time is 2 hours.



If pushing the button once, the color is changed quickly and if pushing the button once more, the color is changed slowly. After that, each color is fixed.



## Warnings

- Please do not look at the light of the LED LIGHTED BOX for a long time to protect your vision.
- Please make sure to turn off after use. (No light means the status is 'off'.)
- The proper charging time is 2 hours. Please be careful not to overcharge.
- Please note that if you force connection or incorrectly connect to the USB CABLE, it may cause damage to the terminal. (Failures due to the negligence of the consumer cannot be compensated.)
- Included USB CABLE is for charging LED LIGHTED BOX. Please do not use it for other products, or connect it to the other product cables.
- Do not disassemble.
- Please do not throw, drop, or place in water.

## R/C

Make your own cars with R/C and operate them with the remote control. Magformers cars moving like magic without touching, such a dream comes true.

### R/C motor wheel

When turning on the power, the red light comes on. Place the receiver to the back side.

\* Batteries are not included  
(Battery used in: AAA 1.5V X 3EA)



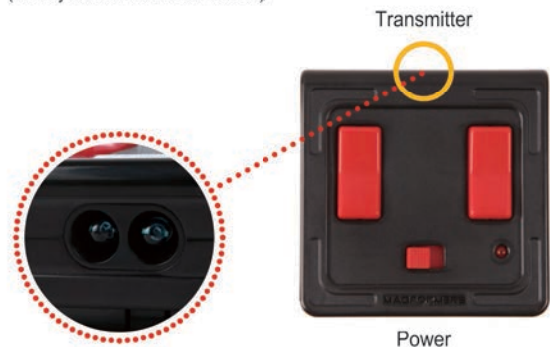
### R/C front wheel



### R/C remote control

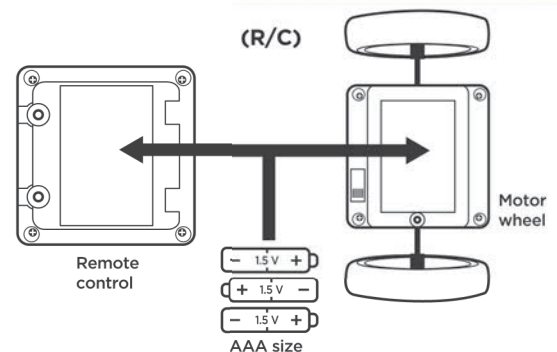
Do not cover the transmitter.

\* Batteries are not included  
(Battery used in: AAA 1.5V X 3EA)



## How to remove and insert replaceable batteries.

- Remove screws and Place three AAA batteries in the correct position as displayed inside.
- Non-rechargeable batteries are not to be recharged.
- Rechargeable batteries are to be removed from the toy before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Batteries are to be inserted with the correct polarity.
- Exhausted batteries are to be removed from the toy.
- The supply terminals are not to be short-circuited.



## How to operate R/C Remote Control

### Go forward

Push the front of buttons on the both sides.



### Go backward

Push the back of buttons on the both sides.



### Left turn

Push the front of left button.



### Right turn

Push the front of right button.



### Sharp turn to the left

Push the front of the left button and the back of the right button, it turns left sharply.



### Sharp turn to the right

Push the back of the left button and the front of the right button, it turns right sharply.



## Warnings

### R/C – Troubleshooting

- If the R/C motor wheel moves slowly or does not work smoothly, there might be a power issue. Please change the batteries.
- Please aim the R/C remote control transmitter towards the receiver of the R/C motor wheel. Please do not cover the transmitter.
- Remote control range is up to 5~8m (16.4~26.2 ft.). However, lagging may occur depending on its operating condition. Please use it within a 3~4m (9.8~13.1 ft.) range.

### R/C – Other Warnings

- Please make sure to turn off the power after use since it may drain the battery.
- Control on an actual road may be dangerous, so please only use indoors.
- Please do not throw, or drop Magformers R/C.
- Magformers R/C uses a single frequency. If you use multiple units at the same time, it may cause a malfunction.

# MAGFORMERS®

Intelligent Magnetic Construction Set For Brain Development

## MIRACLE BRAINSET

### Magformers for the Brain development

Magformers is perfect for the creativity and brain development. Explore and experiment combining the various kinds of shapes to create your own favorite Magformers. There are 100s of possible 3-D combination using different geometric shapes. Feel the magnetic force and have countless hours building and designing unique MAGFORMERS.

#### Learning Values

- Creative
- Imaginative
- Stimulative
- Mathematical
- Deductive
- Constructive

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