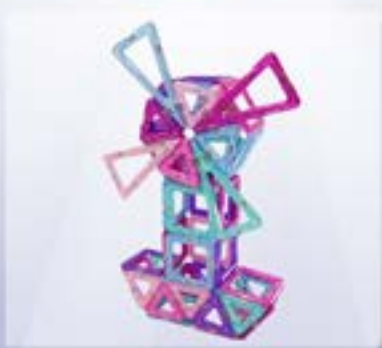


# MAGFORMERS®

Intelligent Magnetic Construction Set For Brain Development



## IDEA BOOKLET

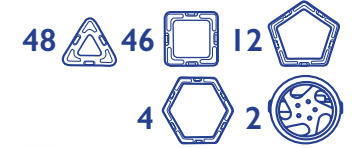
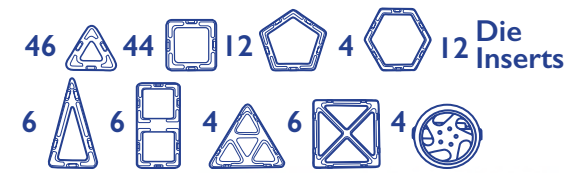
Rainbow, Classic, Designer,  
Inspire Design, Challenger  
& Smart Sets

STEP-by-STEP instructions  
for building with your 62, 112  
& 144 piece Magformers Sets

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# INCLUDES BUILDS FOR ALL OF THESE MAGFORMERS SETS






# RAINBOW & CLASSIC 62PC

# RAINBOW & CLASSIC 62PC




## Ball



- 1 Lay out half of the ball flat with pentagons and triangles. 
- 2 Pull up from the center. 
- 3 Repeat Step 1 and put the 2 halves together! 

## Wheel



- 1 Lay out the first side of the wheel using squares and triangles. 
- 2 Build off the inside and outside with squares. 
- 3 Fill in the top with the same pieces from Step 1 and you're ready to roll! 

Can you build these others?



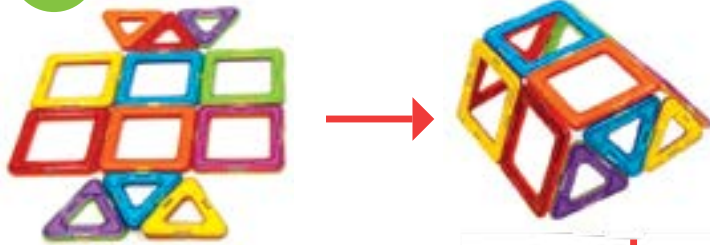
## Speed Boat

26  10 

1 Lay out the base of the boat and pull the sides up to make an open box.



2 Lay out the top of the boat, pull up and attach it to the base in Step 1.



3 Create the boat's bumper and attach it to the front.



4 Add a couple of triangles to the back to finish.



## Dumbbell

4  20  30 

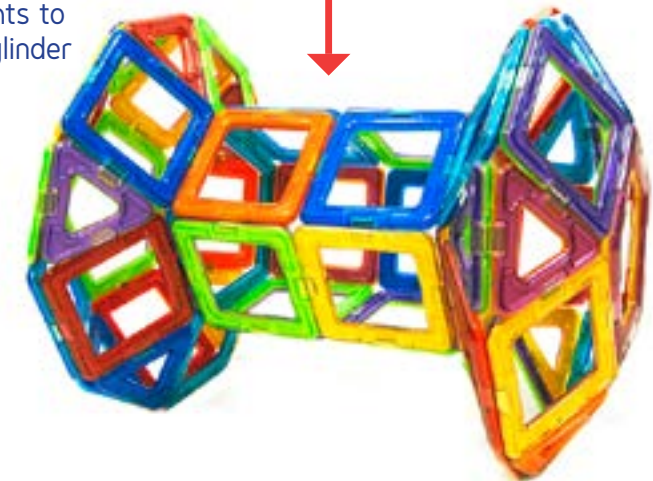
1 Lay out the handle and connect the pieces forming a cylinder.



2 Lay out the first half of the weight then repeat it and attach the 2 halves together. Make another weight for the other side.



3 Attach the 2 weights to each side of the cylinder and you're DONE!



## Windmill



**1** Build the base by laying out the pieces. Pull up and add triangles to fill in the other side.



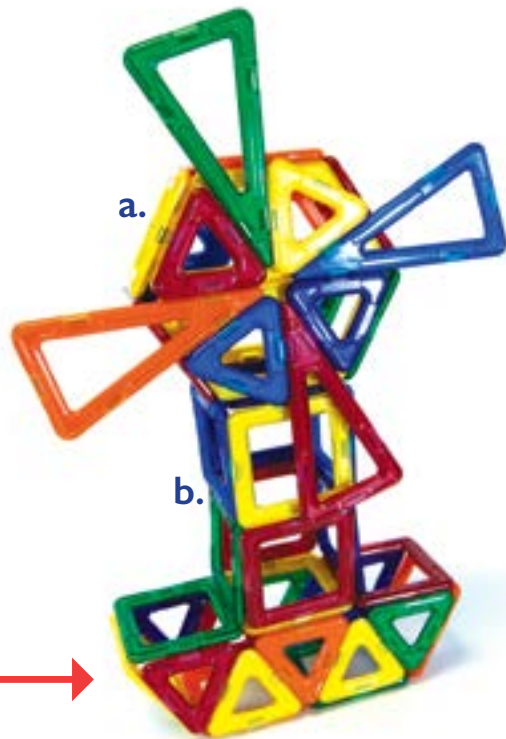
**2** Assemble squares together for the center and attach it to the base.



**3** Make a wheel with 6 triangles, 6 squares and 2 trapezoids.



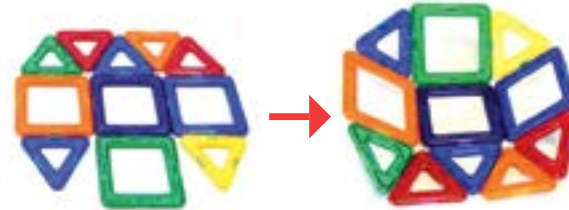
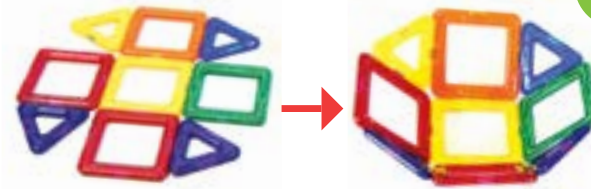
**4** Add another layer of alternating triangles and isosceles triangles onto the trapezoid side of step 3.



## Helicopter



**1** Lay out the top of the cockpit and snap the pieces together.



**2** Lay out the bottom of the cockpit and attach it to the top.

**3** Assemble the base and add it below the cockpit.



**5** Attach isosceles triangles to the top of the helicopter for its propellers.



**4** Make the helicopter's rudder with 3 isosceles triangles and 2 diamonds added on top.



## Motorcycle



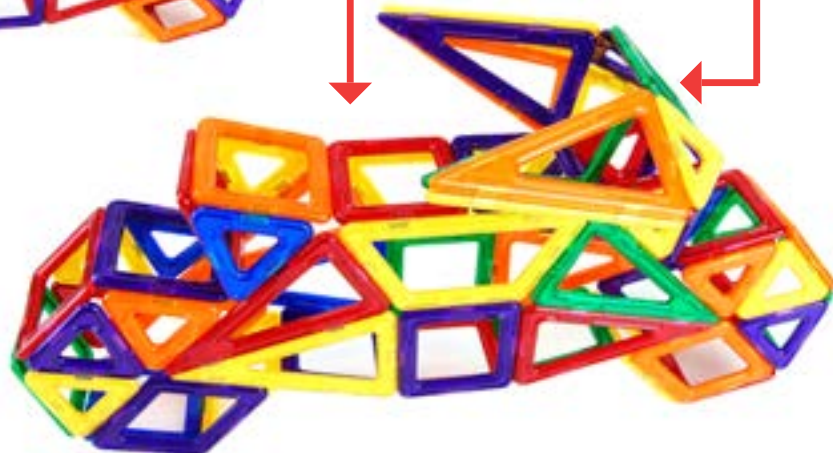
1

Create the body of the motorcycle by laying it out, surrounding the edges with squares then filling in the gaps with the same pieces from the first step.



2

Make 2 handles by laying triangles out and folding them over. Attach the 2 handles to the motorcycle using a square and you're ready to ride!



## Spaceship



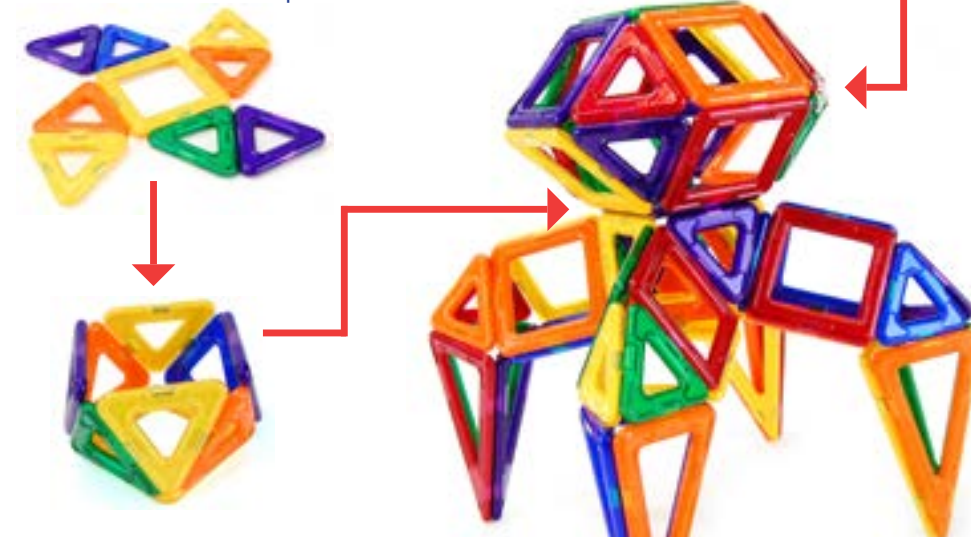
1

Lay out and pull up the top and bottom of the spaceship's head. Snap the 2 halves together.



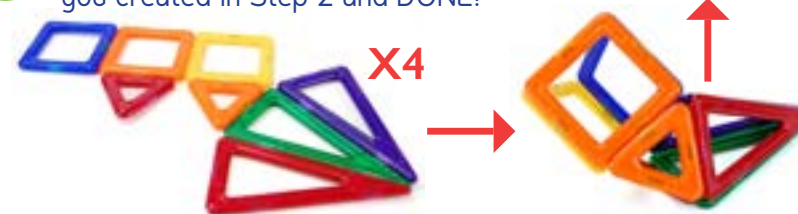
2

Assemble the middle of the spaceship and pull it up. Attach it to the bottom of Step 1.



3

Make 4 legs by laying them out and pulling the sides together. Attach them to what you created in Step 2 and DONE!



## Heart



1

Lay out the front of the heart with triangles, diamonds and trapezoids.



2

Build off the sides with squares.



3

Add any extra triangles and diamonds you have to the back for support and DONE!



Now try building this different heart!



## Penguin



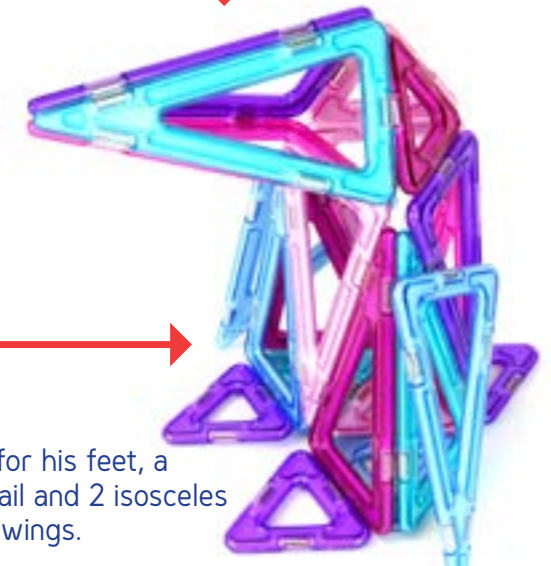
1

Lay out the penguin's body and pull up the sides.



2

Make the beak with 3 isosceles triangles and 2 equilateral triangles. Attach it to the top of the body.



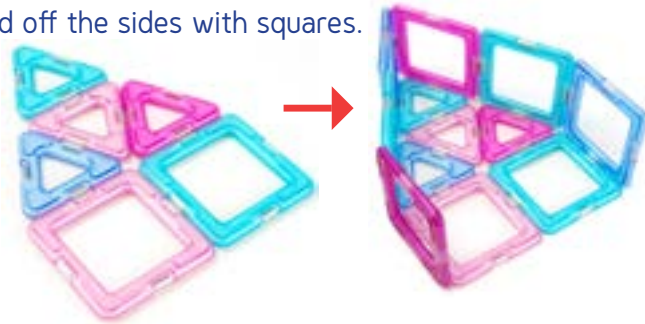
3

Add 2 triangles for his feet, a triangle for his tail and 2 isosceles triangles for his wings.

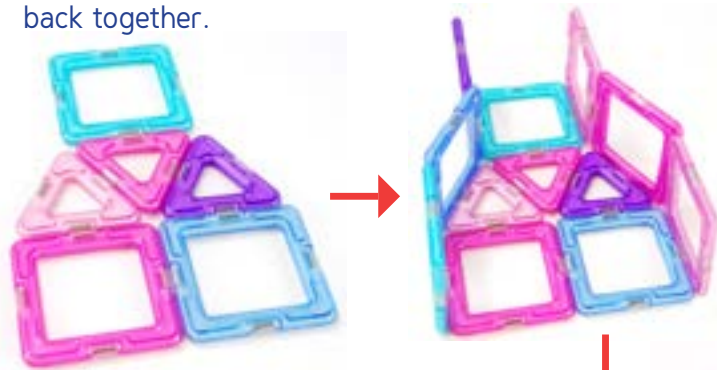
## School House



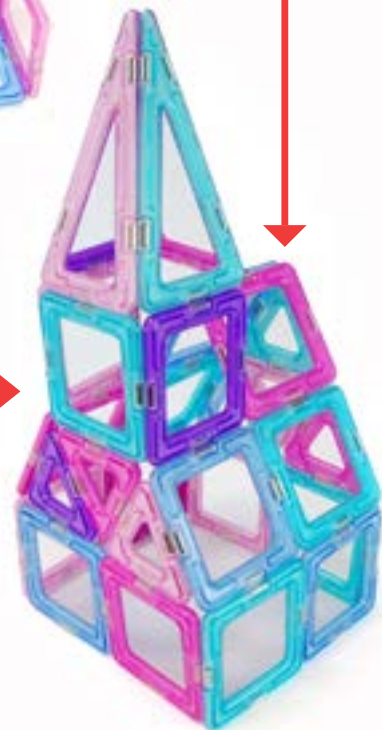
1 Lay out the back side of the school then build off the sides with squares.



2 Lay out the front and build off the sides again with squares. Attach the front and back together.



3 Make the school's roof with 4 isosceles triangles and add it on top!



## Castle



1 Lay out the middle level of the castle and assemble it to stand up.



2 Add squares, diamonds, trapezoids and triangles as shown below to the edges of Step 1. Pull up and your castle base is done.



3 Make castle towers by laying them out like below and folding them over. Make 2 and add them on to your base. Add a couple triangles for flags!

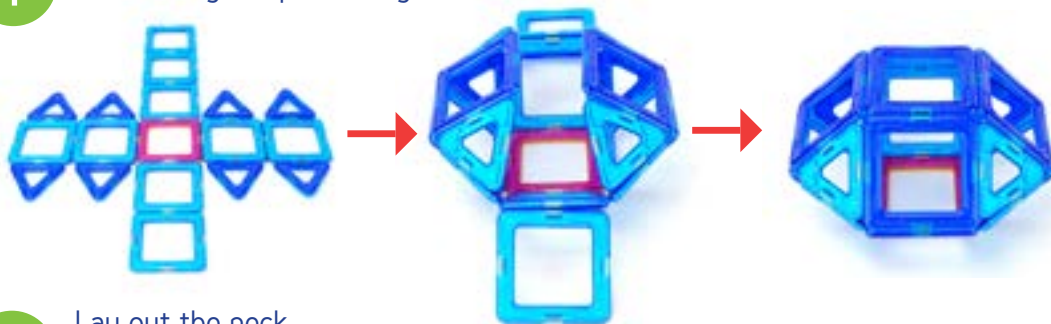


# CHALLENGER 112<sub>PC</sub>

## Goose

27  10 

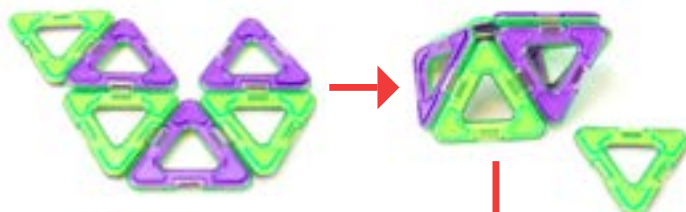
1 Make the goose's body by laying it out flat then folding the pieces together.



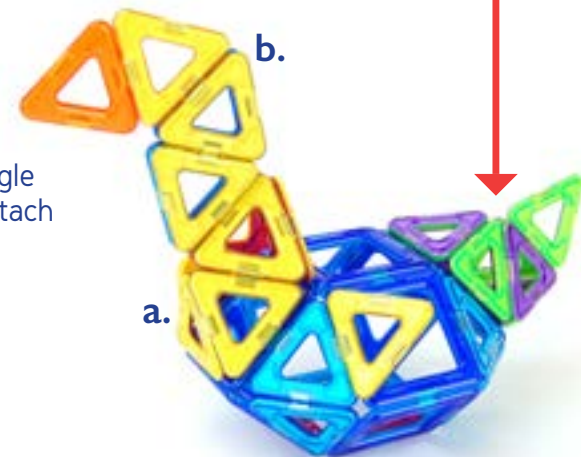
2 Lay out the neck base, assemble and attach to the body.



4 Tail is just like step 2, with an added triangle on top, attach to the back of the body.



b.



3 Goose's neck is 4 triangles in stacks of 2. Add a single triangle for each it's beak and face. Attach to the neck base from step 2.



b.

5 Add a couple of triangles on its sides for it's wings and DONE!

a.

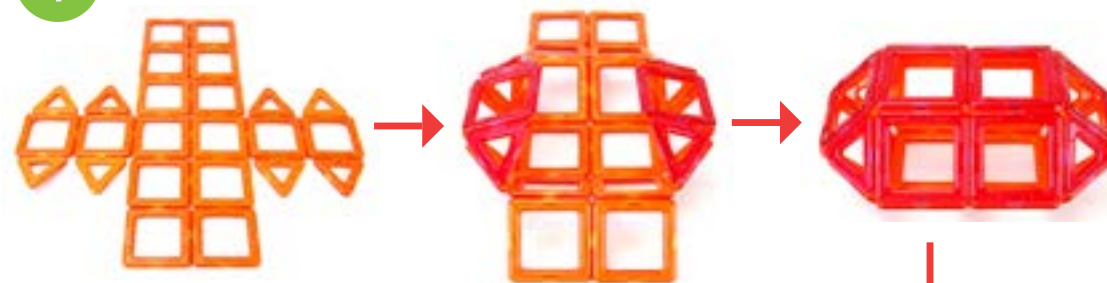


# CHALLENGER 112<sub>PC</sub>

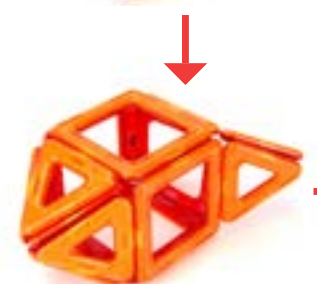
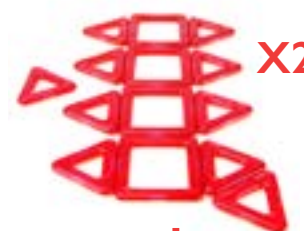
## Crab

24  38 

1 Lay out the crab's body and start by rolling the sides together.



2 Lay out the claws and roll them together. Attach them to the sides of the body.



3 Add 4 legs each made up of 2 triangles to the back of the crab. Add 2 triangles to his head for eyes.

a.

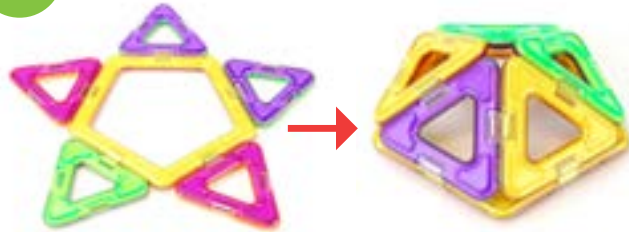


# CHALLENGER 112<sub>PC</sub>

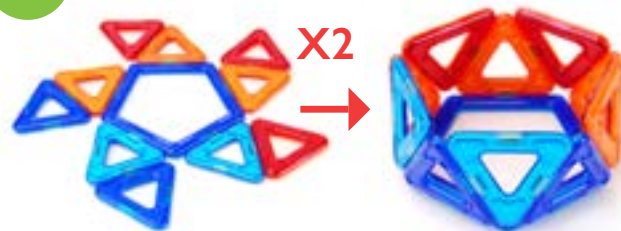
## Castle Tower



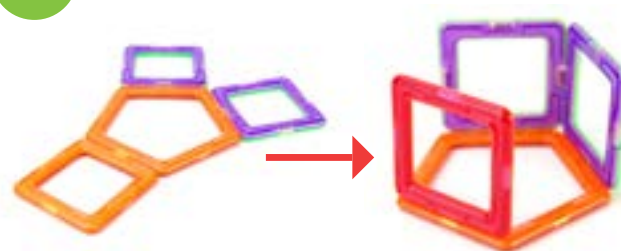
4 Finally make the castle's point by surrounding a pentagon with 5 triangles and connecting them.



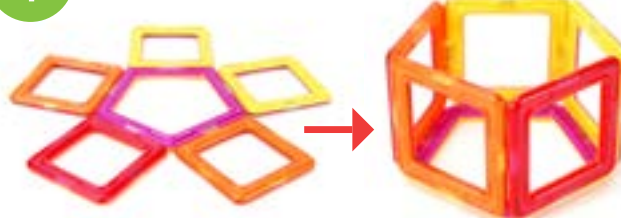
3 Lay out the 3rd & 4th level and connect the sides. Stack them on top.



2 The second level is just a pentagon and 3 squares.



1 Lay out the very bottom of the tower and pull up the sides.



# CHALLENGER 112<sub>PC</sub>

## Castle Tower

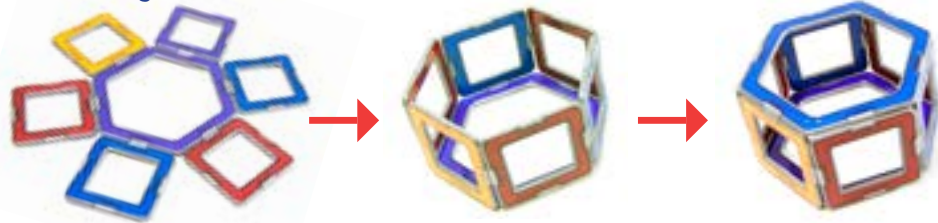
5 Now try to layout the sides of the castle and connect them together. Attach them to each side of the tower and DONE!



## Race car



**1** Lay out the back of the race car with a hexagon surrounded by squares. Pull up the sides and add a hexagon to the other side.



**2** Lay out the front of the car and pull up the triangles on the sides.



**3** Make a pyramid out of 4 triangles to attach the front and back of the race car together.



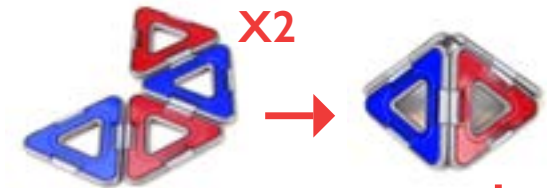
## Car



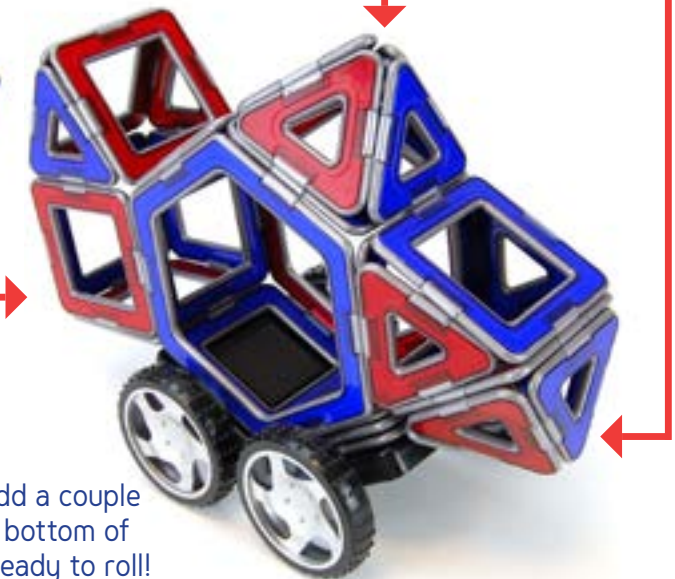
**1** Lay out the body of the car and build off the sides with squares. Add 2 triangles, a hexagon and a square on top to close it.



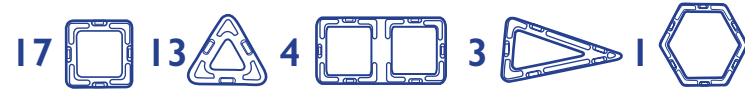
**2** Make a 2 pyramids out of 4 triangles each and attach them to the top and very back of the car.



**3** Attach wheels and add a couple extra squares to the bottom of your car and you're ready to roll!



## Saxophone



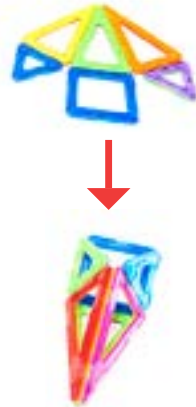
**1** Lay out the bell of the saxophone and pull up from the hexagon in the middle to connect the pieces together.



**2** Lay out and connect the sides of the saxophone's body.



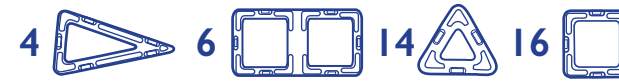
**3** Make the mouthpiece out of 3 isosceles triangles, 2 equilateral triangles and a square.



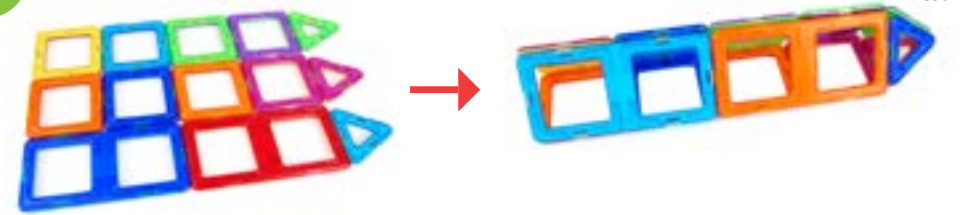
**4** Create a stand for your instrument with 3 triangles, 4 rectangles and a square.



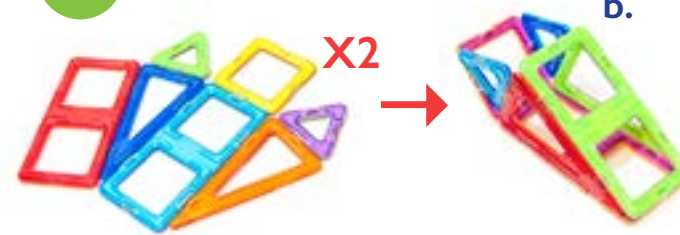
## Airplane



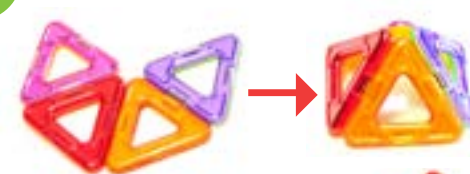
**1** Create the body of the plane with squares and triangles.



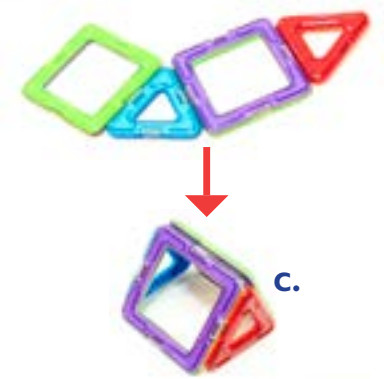
**2** Lay out and attach 2 wings for each side of the plane.



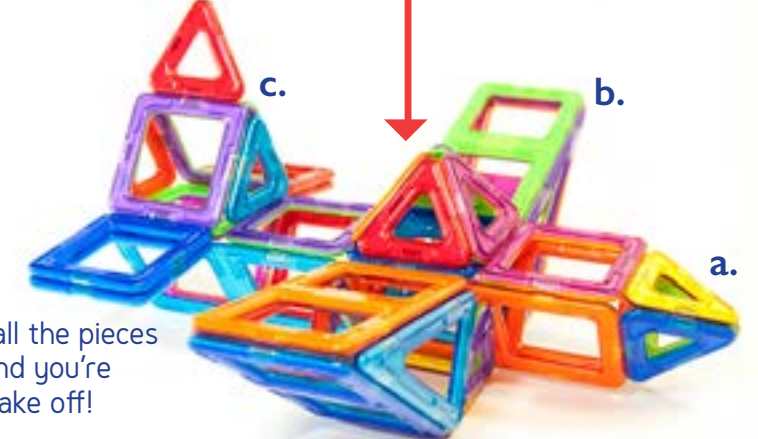
**3** Attach a pyramid made out of 4 triangles to the top of the plane.



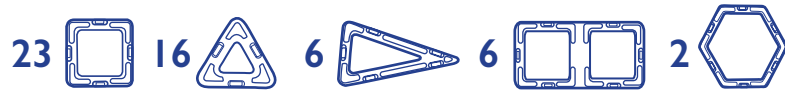
**4** The tail is just 3 triangles and 2 squares attached to the back of the plane. Add 2 extra squares to each side for the elevators.



**5** Assemble all the pieces together and you're ready for take off!

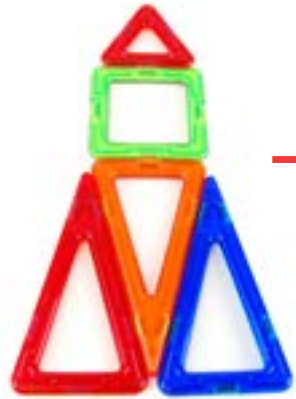


## Scale



## Scale

1 Create the base of the scale with isosceles triangles, a square and a triangle.



2 Line the edges with squares.



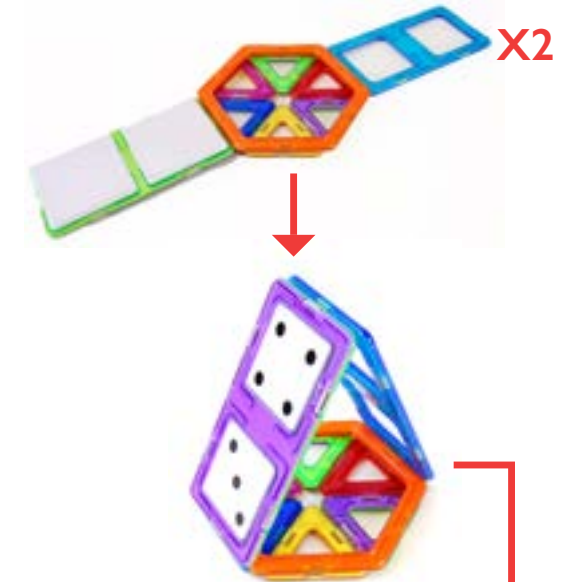
3 Close with 3 isosceles, a square and a triangle again.



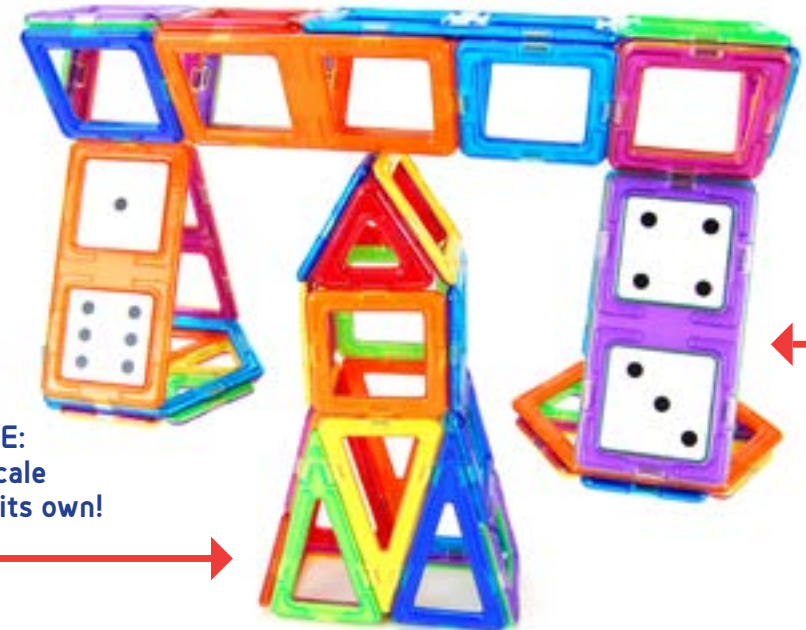
4 Create the balance bar by laying out squares, rectangles and triangles and connect the sides.



5 Make 2 weights each with 2 rectangles, a hexagon & 6 triangles. Carefully attach them to the balance bar.



6 CHALLENGE: Make the scale balance on its own!



# CAN YOU NAME ALL THESE GEOMETRIC SHAPES?

## FOR MORE MAGFORMERS FUN!

A.



B.



C.



D.



E.



F.



G.



A. Pentagon B. Hexagon C. Isosceles Triangle D. Square E. Equilateral Triangle F. Trapezoid G. Diamond



55pc Dinosaur Set



46pc Deep Sea Set



47pc Forest Friends Set

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83pc Safari Set



174pc Landmark Set

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SETS 2014



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