

SHASHIBO®



SHAPE CHALLENGE

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WHAT IS THE SHAPE?



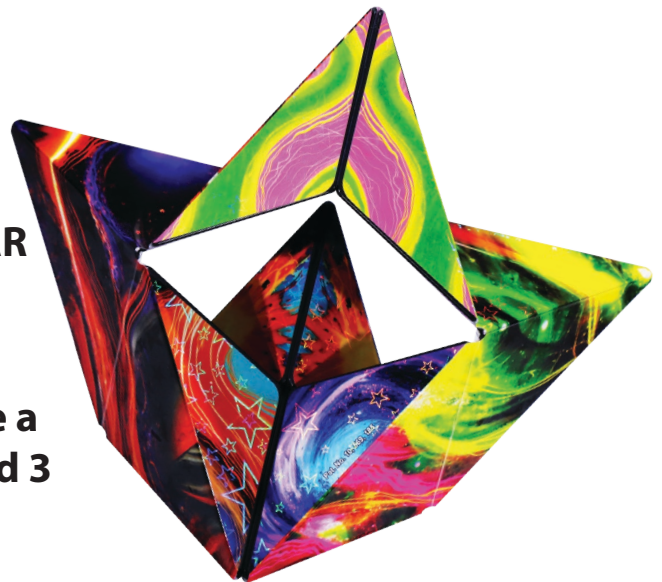
The Crown

A crown is worn by king or queen to show grace and power as the head of state in a monarchy.

MAKE THE SHAPE!

Are you ready?

Starting from the cube, open 3 TRIANGULAR pieces outward from the cube.



VOCAB

TRIANGULAR – shaped like a triangle, having 3 sides and 3 corners.



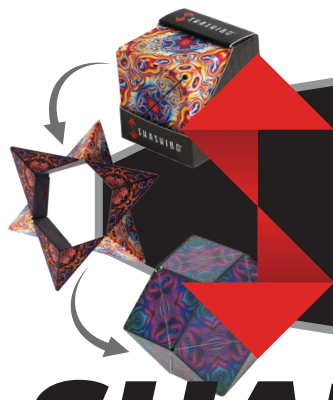
**THINK
About It...**

It looks like a hat with the center point up.
What does it look like when you flip it over?



BONUS!

Work with a buddy and use magnetism to connect 2 crowns. How many different connections can you find?



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WHAT IS THE SHAPE?



The Star

The six-pointed star is an easily accessible **STELLATED** shape of stellar proportions.

MAKE THE SHAPE!

Are you ready?

Starting from the Crown, open the remaining points and allow the magnets to form a Star.



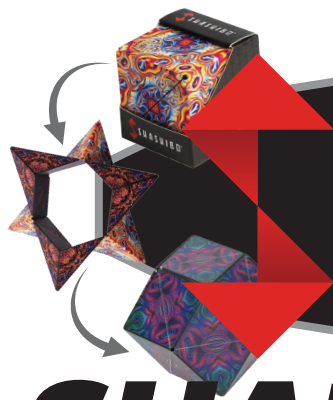
STELLATED – shaped like a star, having points radiate out from the center.



How does a solid **CUBE** transform into a **STAR** shape with a hollow core?



Work with a group and use magnetism to connect 4 Stars into a solid shape.



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WHAT IS THE SHAPE?

The Hive

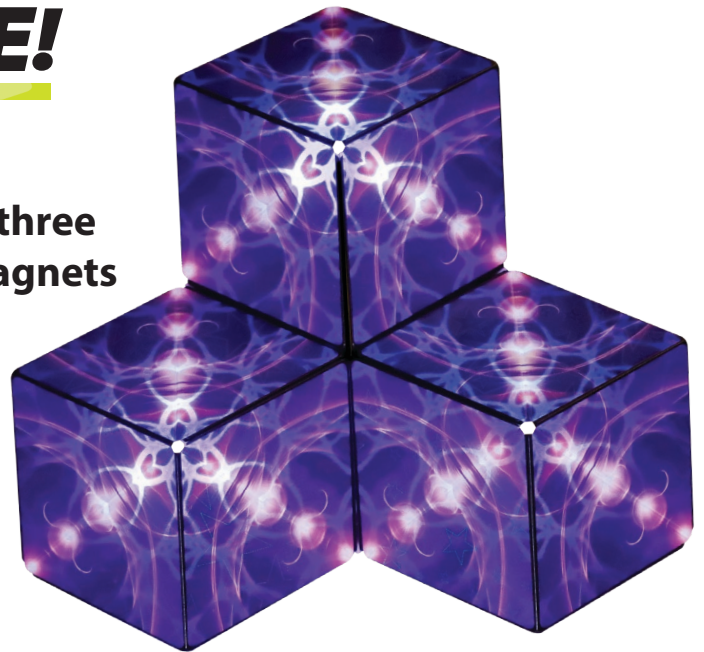
Bees build honeycomb hives to house their bee families in the sweetest way!



MAKE THE SHAPE!

Are you ready?

Starting from the Star, carefully unfold three points into **HEXAGONS**, allowing the magnets to combine in the middle of the shape.



VOCAB

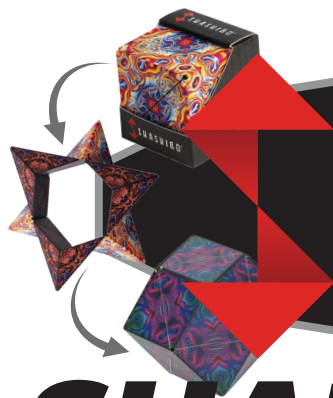
HEXAGON – a polygon with six sides and six angles.

THINK
About It...

Is a **HEXAGON** a stable shape for building structures? Why or why not?

BONUS!

Work with a group and use magnetism to connect 4 Hives into a solid shape.



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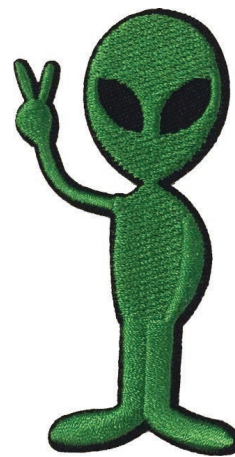
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WHAT IS THE SHAPE?

The UFO

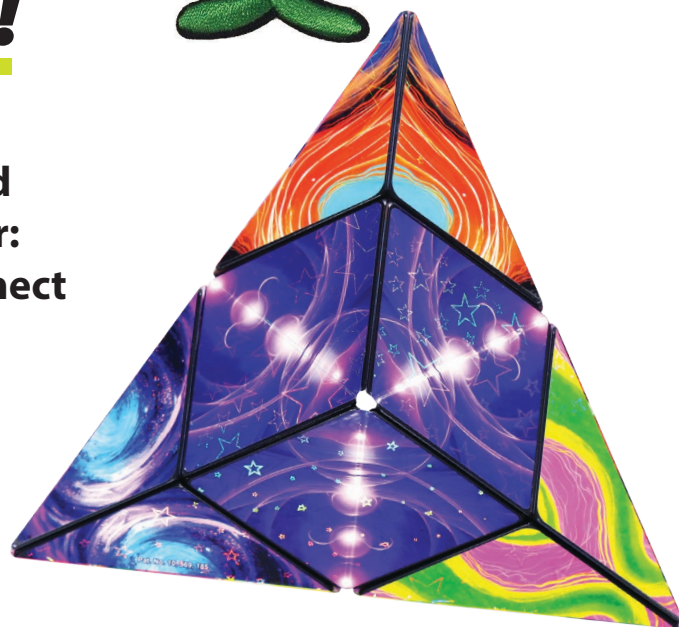
A UFO is an Unidentified Flying Object.
Here's ONE version of a UFO shape,
Shashibo style!



MAKE THE SHAPE!

Are you ready?

Starting from the Hive, carefully open and
flip one point at a time through the center:
1, 2, 3! Then, let the INVERTED shape connect
magnetically in the center.



VOCAB

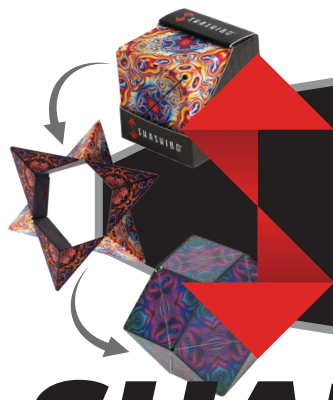
INVERTED – flipped
inside out.

THINK
About It...

Is the UFO shape an INVERTED cube?
Why or why not?

BONUS!

Work with a buddy and use magnetism to connect a
UFO and a HIVE to make an 2 Shashibo spinner.



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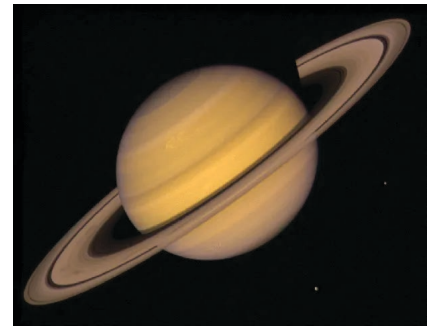
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WHAT IS THE SHAPE?

The Ring

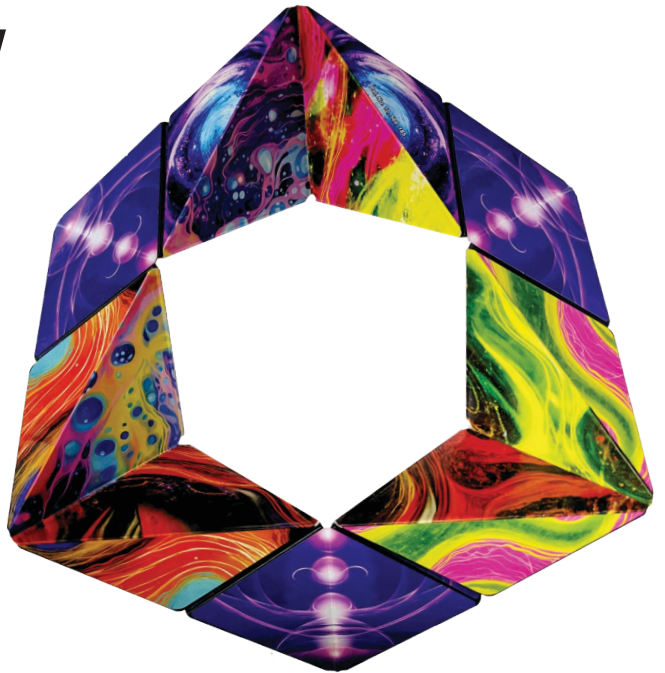
A ring is a circle shape often used in jewelry and design. Even the planet Saturn has a ring!



MAKE THE SHAPE!

Are you ready?

Starting from the UFO, carefully open the center of the shape. The ring is a loose shape, set it down on a table or desk.



VOCAB

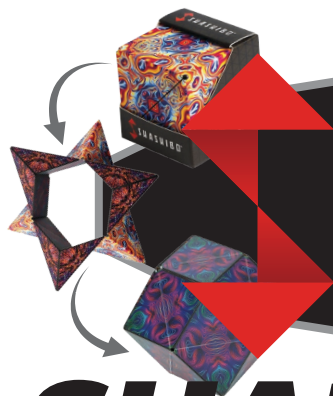
TORUS – in mathematics, a doughnut-shaped object.

THINK About It...

The ring is not a fixed shape, why won't the Shashibo magnets hold this ring shape?

BONUS!

Work carefully with a group and use magnetism to connect 4 Rings into a solid shape.



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Making People
Happier & Healthier

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WHAT IS THE SHAPE?

The Ball

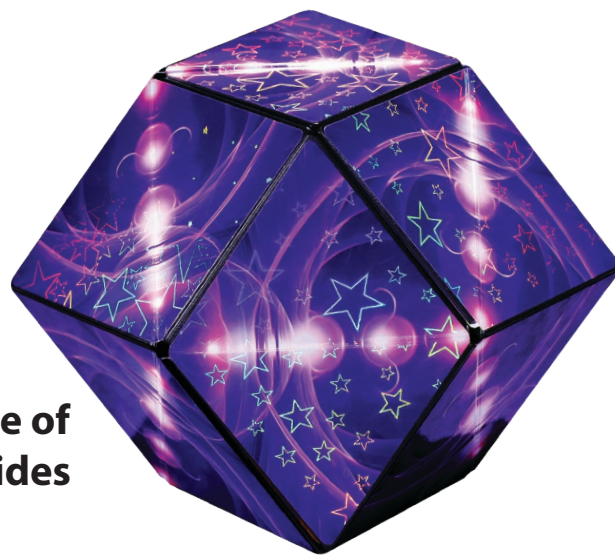
We call this shape a Ball, but it's not a sphere: the mathematical name for this shape is a RHOMBIC Dodecahedron.



MAKE THE SHAPE!

Are you ready?

Start with the Ring resting open on a table. Carefully lift and curve one side of the Ring, and then lift and round the other sides until you have a ball.



VOCAB

RHOMBIC – having the shape of a rhombus, a shape with 4 sides of equal length.

THINK About It...

If a Decahedron is a ten-sided object, and Dodeca means twelve, what is a Dodecahedron?

BONUS!

Work with a buddy turn the Ball back to a Cube!
Hint: open up to a Ring and flip 3 points through the center so the Cube art moves from the inside of the Ring to the outside of the Shashibo, then pull in the points to form a Cube.