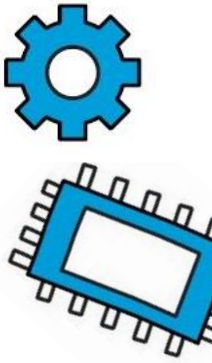


# TWEENS DIY PACKAGE FLEXAGON

This package provides Tweens the opportunity to problem-solve through a do-it-yourself activity.

Follow the instructions and have fun!



## DID YOU KNOW?

Flexagons are toys made of folded paper. The paper is folded so some parts are hidden. When the folds are flexed, they reveal the hidden parts!

Most flexagons are flat. You can see the front and back. But there are more faces that cannot be seen until the paper is flexed.

3-Dimensional flexagons have an extra dimension and you can turn them inside out!

# MATERIALS REQUIRED

- 8 squares of paper

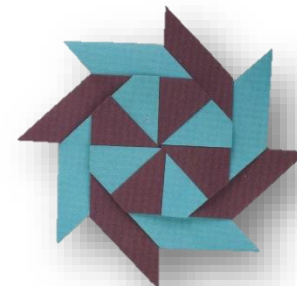
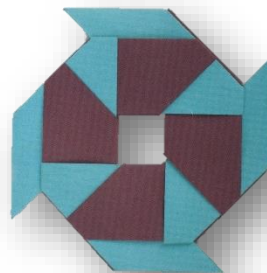
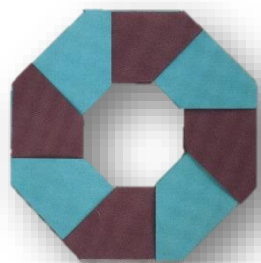


# MAKE YOUR OWN TRANSFORMER STAR!



This amazing star changes into an **octagon**! Just push or pull the pieces and watch it transform.

Impress your friends with the star's shape-changing ability.



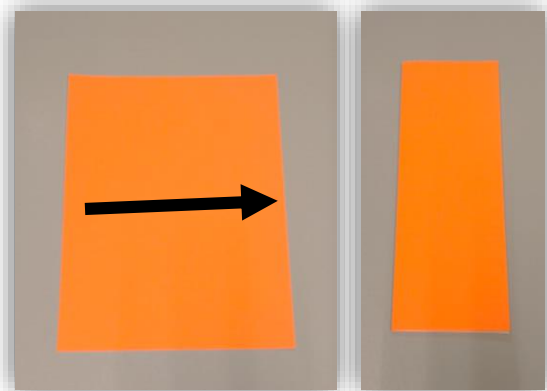
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Title: Cool Flexagon Art: Creative Activities that make math & science fun for kids!

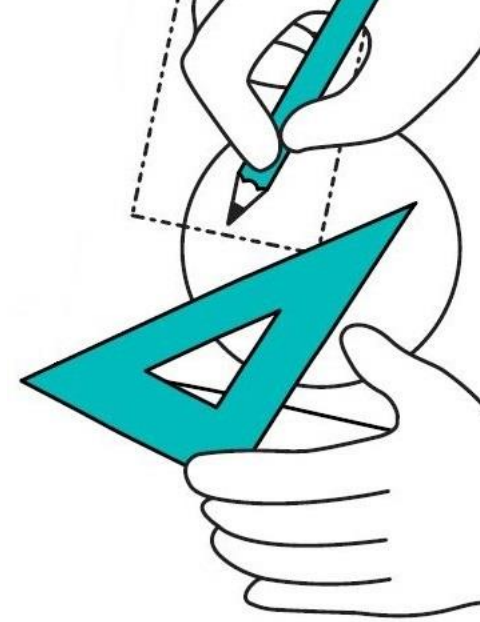
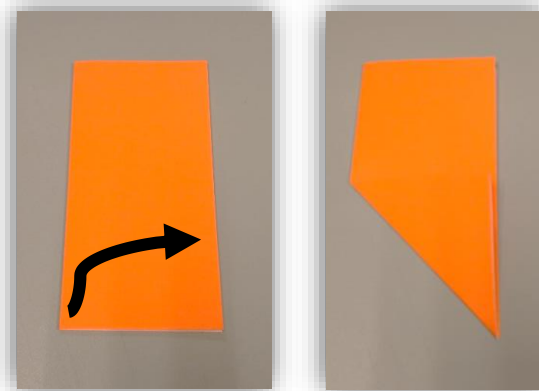
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# HOW TO MAKE IT

**Step 1:** Start with a square sheet of paper. Fold it in half. Crease it. Lay it down with the fold on the left.



**Step 2:** Fold up the bottom-left corner to meet the right side. Fold and crease.



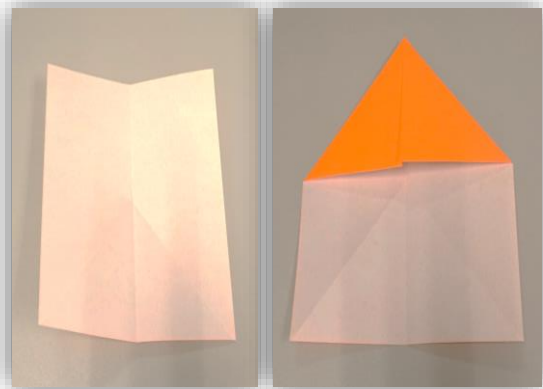
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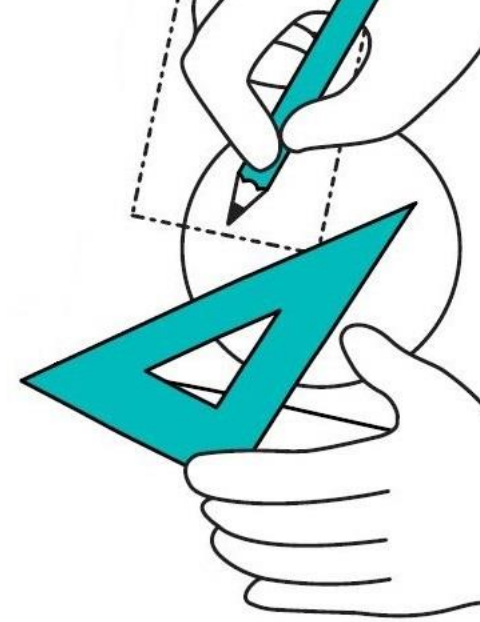
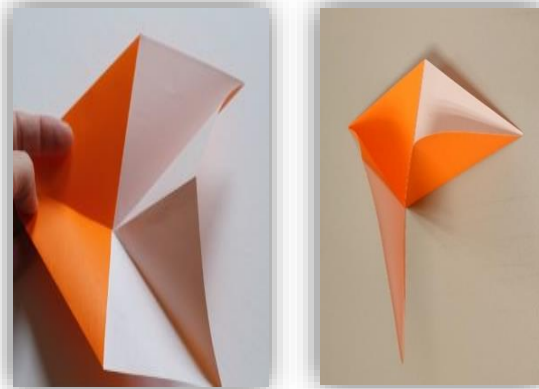
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# HOW TO MAKE IT

**Step 3:** Open the paper up. Bring the two top corners down to the middle of the paper. Fold and crease.



**Step 4:** With one hand, start to bring the left edge to the right edge. With your other hand, push the centre of the bottom edge up.



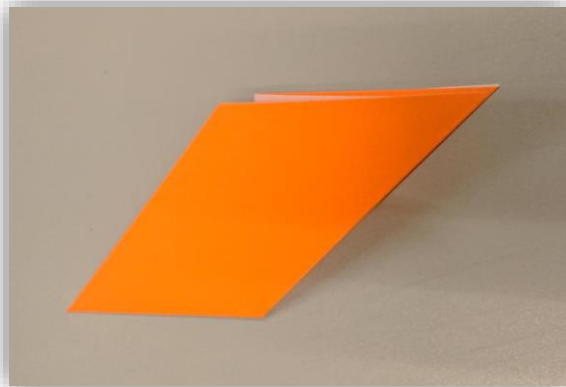
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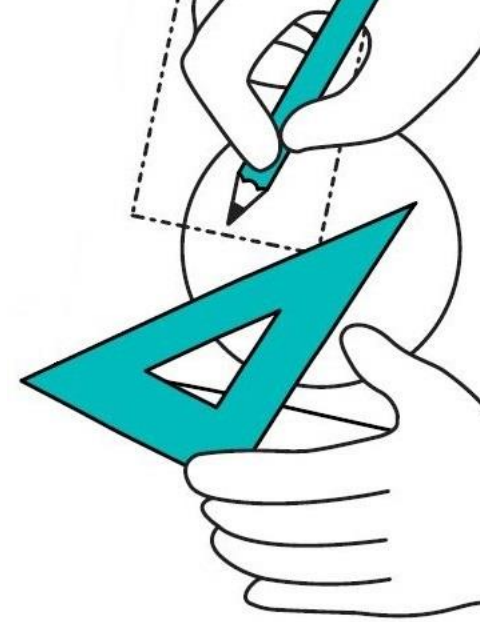
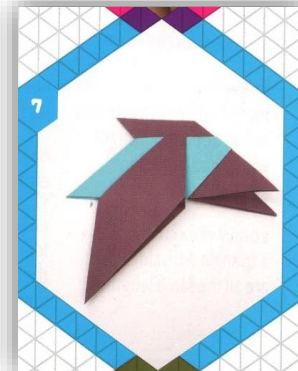
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# HOW TO MAKE IT

**Step 5:** The folded shape is a **parallelogram**. It has a pocket on one side. It has a point on the other side. Repeat steps 1 to 4 with seven more sheets of paper.



**Step 6:** Connect the pieces. **Insert** one piece into the pocket of a second piece. Fold the tips of the first piece down. They will be inside the pocket of the second piece.



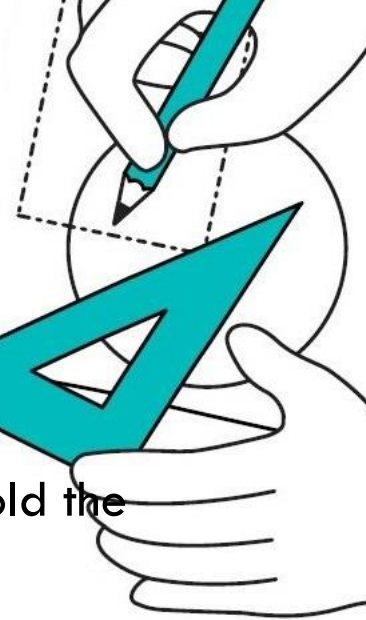
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# HOW TO MAKE IT

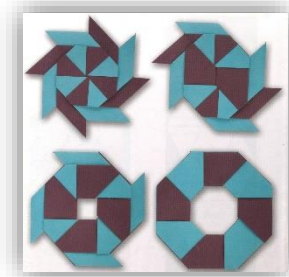


**Step 7:** Insert a third piece into the pocket of the second piece. Fold the tips of the second piece inside the pocket of the third piece.

**Step 8:** Add the fourth, fifth, and sixth pieces the same way. You should have 2 pieces left.

**Step 9:** Put the pocket of the seventh piece around the point of the first piece. Put the pocket of the eighth piece around the point of the seventh piece. The eighth piece's point should be in the sixth piece's pocket. Fold all the tips down.

**Step 10:** Pull and push the sides to change the shape.



**Source:**

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# LEARN MORE ABOUT IT!

## Cool Art with Math and Science Series

1. Cool Flexagon Art: Creative Activities that Make Math and Science Fun for Kids!  
**English J 516 HAN**
2. Cool Paper Folding: Creative Activities that Make Math and Science Fun for Kids!  
**English J 736 HAN**
3. Cool Tessellations: Creative Activities that Make Math and Science Fun for Kids!  
**English J 516.13 HAN**

