

Origami Challenge!

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Grade Range	Content Area	Materials
Grade 1-5	<ul style="list-style-type: none">● Patterning● Geometry	<ul style="list-style-type: none">● Origami Paper / A4 paper● Scissors● Pen (optional)

Activities

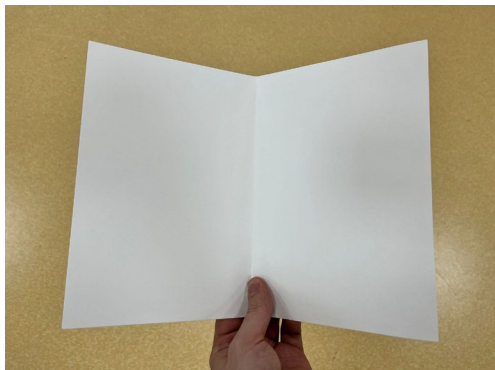
Activity 1. Minds-On Activity

Instructions:

- Fold a sheet of paper, and make at least two shapes that are the same.
- Discuss what shapes were made. Who made the most shapes?

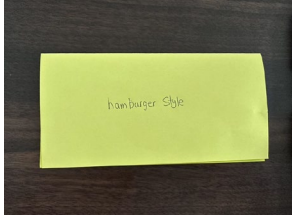
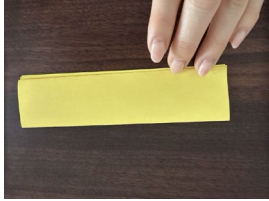

Questions to Consider:


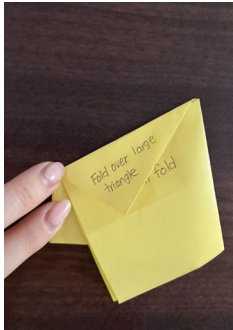

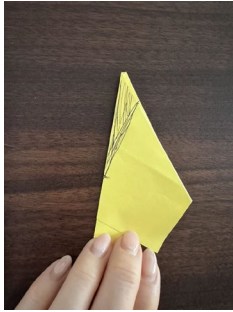

- What shapes do you see?
- How many shapes can you make?
- How do you know that the shapes are equally sized?



Activity 2. One-Cut Origami Challenge!

Instructions:

Step 1	Step 2	Step 3	Step 4
You need one piece of origami paper and scissors.	Fold origami paper in half (hamburger style) 	Fold in half one more time. 	Open it again and use a pen to mark the middle 

Step 5	Step 6	Step 7	Step 8	Step 9
Fold diagonally. 	Fold over a large triangle. 	Fold the arrowhead in half. 	Mark the cutline 	Cut the line. Please do not open it yet! 

Questions to Consider:

- What shapes did you find while doing the activity?
- What shape do you think you will see?

Step 10

Open the paper and find out what shape you will see!



Extending Activities

1. Try to fold the paper however you want, and cut only once. What shapes did you get?
2. You can draw any lines on the folded paper and cut them. Do you see any patterns?

Resources

Small, Marian. Open Questions for the 3-Part Lesson, Grades K - 3 (2016)

Autodesk Instructable, One Cut Origami Star.

<https://www.instructables.com/One-Cut-Origami-Star/>