Fold and Match!

Line Symmetry in 2-D Shapes

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Today we will...

WE ARE LEARNING TO

- Recognize a fold line that makes matching parts
- Identify line-symmetric 2-D figures
- Draw lines of symmetry with a ruler

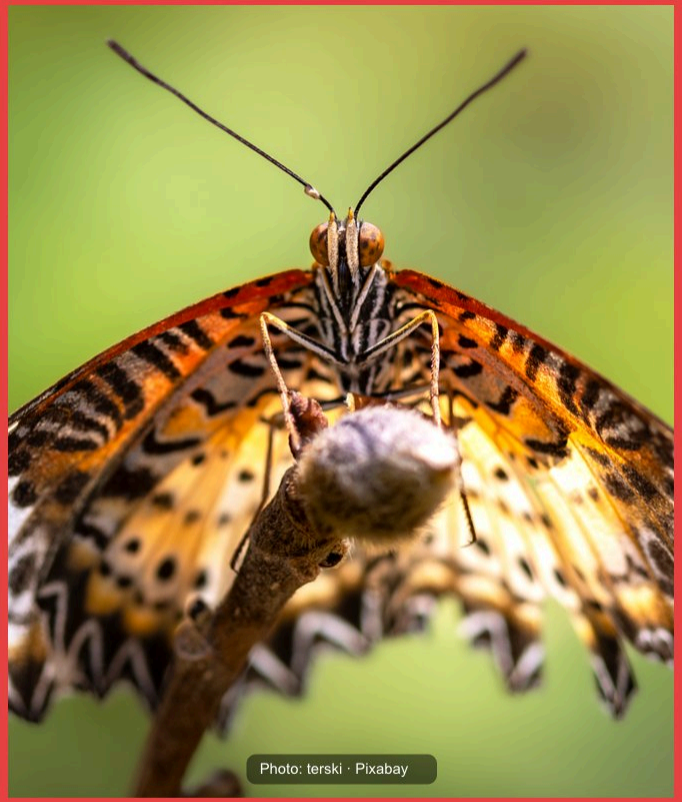
SUCCESS LOOKS LIKE

- ✓ I can explain the fold test for symmetry
- ✓ I can sort symmetric and not symmetric figures
- ✓ I can draw all lines of symmetry

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BIG IDEA

A line of symmetry is a fold that makes both sides match exactly.



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Key words

line of symmetry

straight fold where both sides match exactly

two-dimensional figure

flat shape with length and width

line-symmetric

has at least one matching fold

matching parts

halves that fit exactly on top

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What Would You Test First?

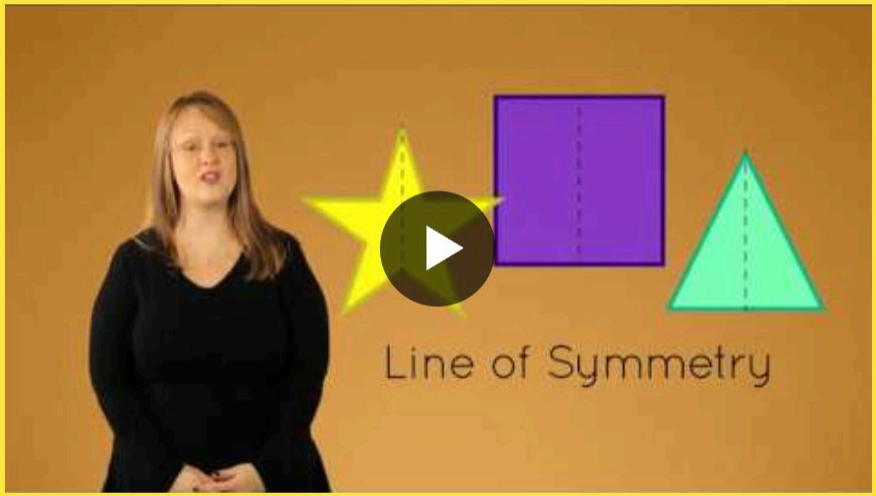
Which would you fold first to look for symmetry?

- **A** Paper heart
- **B** Butterfly photo
- **C** Block letter H
- **D** Wall clock face

Vote with your hands, then explain why.

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Watch: Fold Into Matching Parts



▶ 0:00 – 1:34

- Listen for fold into matching parts
- Spot the dashed line of symmetry

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The Fold Test

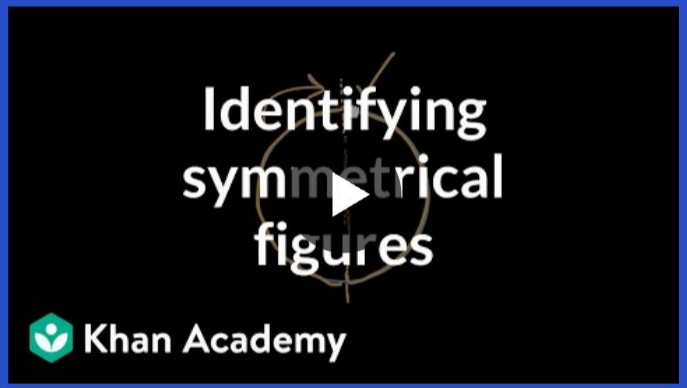
- Imagine folding along one straight line
- Check both halves match with no overlap
- Draw a dashed line if sides mirror
- Try more folds — some have many!



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Watch: Spot Symmetric Figures



▶ 0:00 – 5:00

- Sort which figures are line-symmetric
- Count how many fold lines each has

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Your task

In pairs, sort 6 paper shapes and draw their lines of symmetry.

1. Fold each shape to test for matching halves
2. Sort into symmetric and not symmetric piles
3. Draw dashed lines of symmetry with ruler
4. Write the number of lines on each shape

15 min

In pairs

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How Many Lines?



Square: 4

Folds across, down, and both corners match.



Rectangle: 2

Middle folds match, corner folds do not.



Isosceles triangle: 1

Only the middle fold makes matching halves.



Circle: many

Any straight fold through the center matches.

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Quick quiz

1. What is a line of symmetry?
2. Is an irregular blob line-symmetric?
3. How many lines of symmetry does a square have?
4. A rectangle folded corner to corner: line of symmetry?

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