

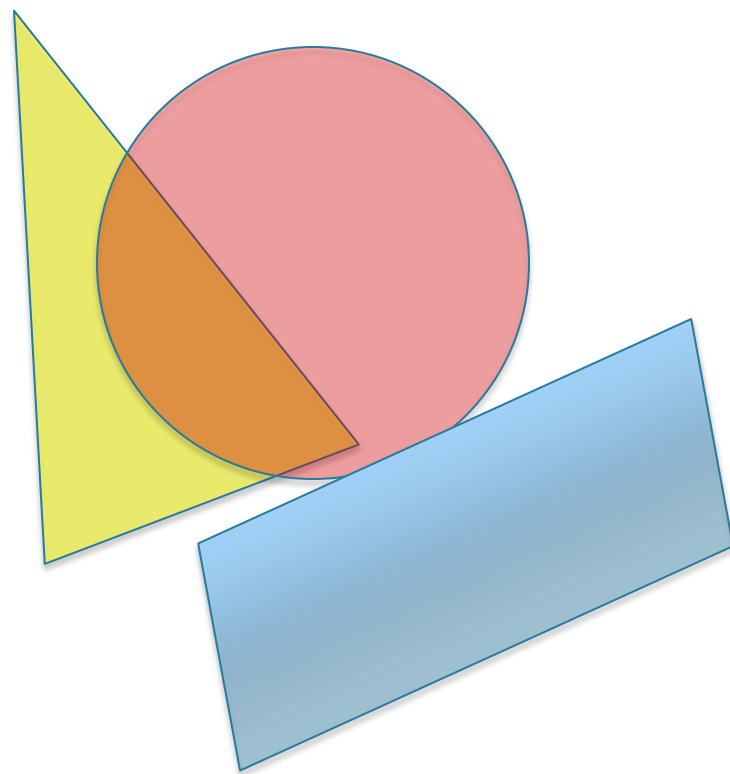


Math Solutions®

FOUNDED BY MARILYN BURNS

Lisa Rogers

NCTM Annual Meeting
April 2011



geometry shapes
describe identify analyze
compose language attributes
names draw compare
recognize

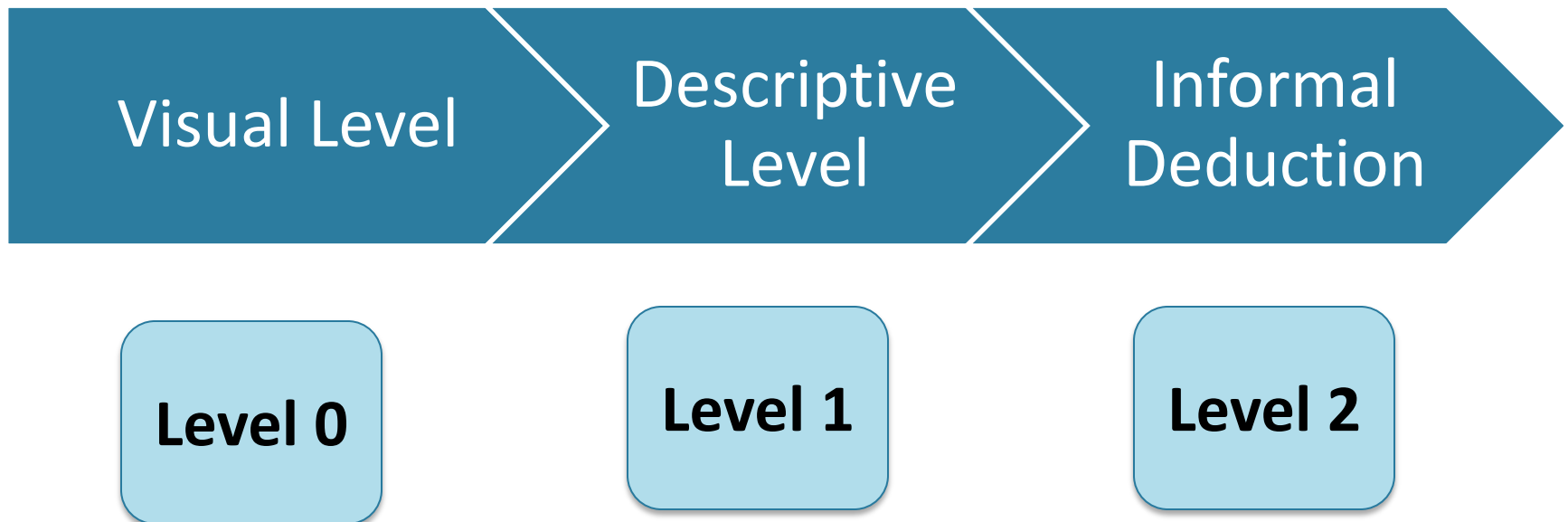
Identify and describe shapes. Analyze, compare, create, and compose shapes.

K

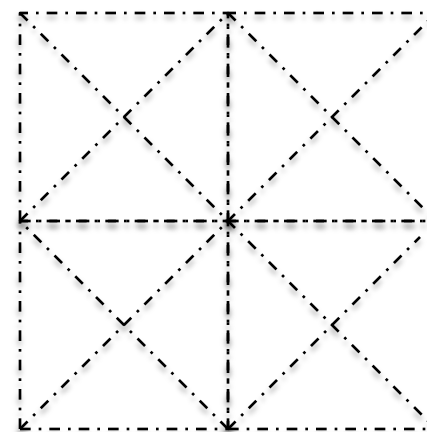
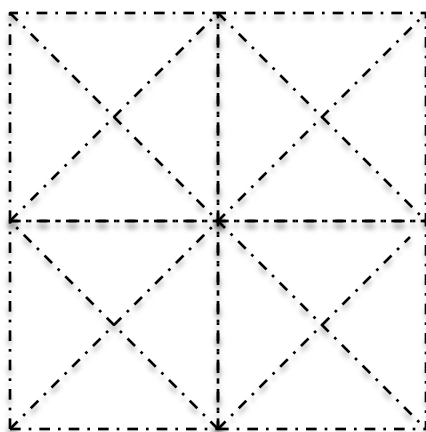
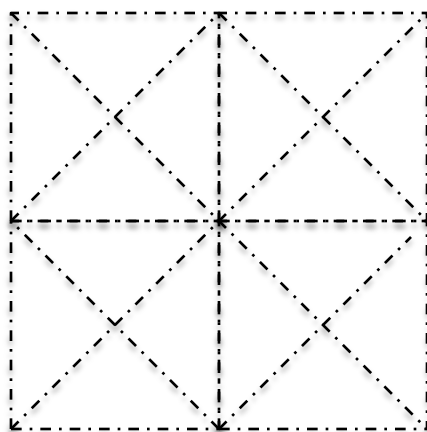
Reason with shapes and their attributes.

1st/2nd

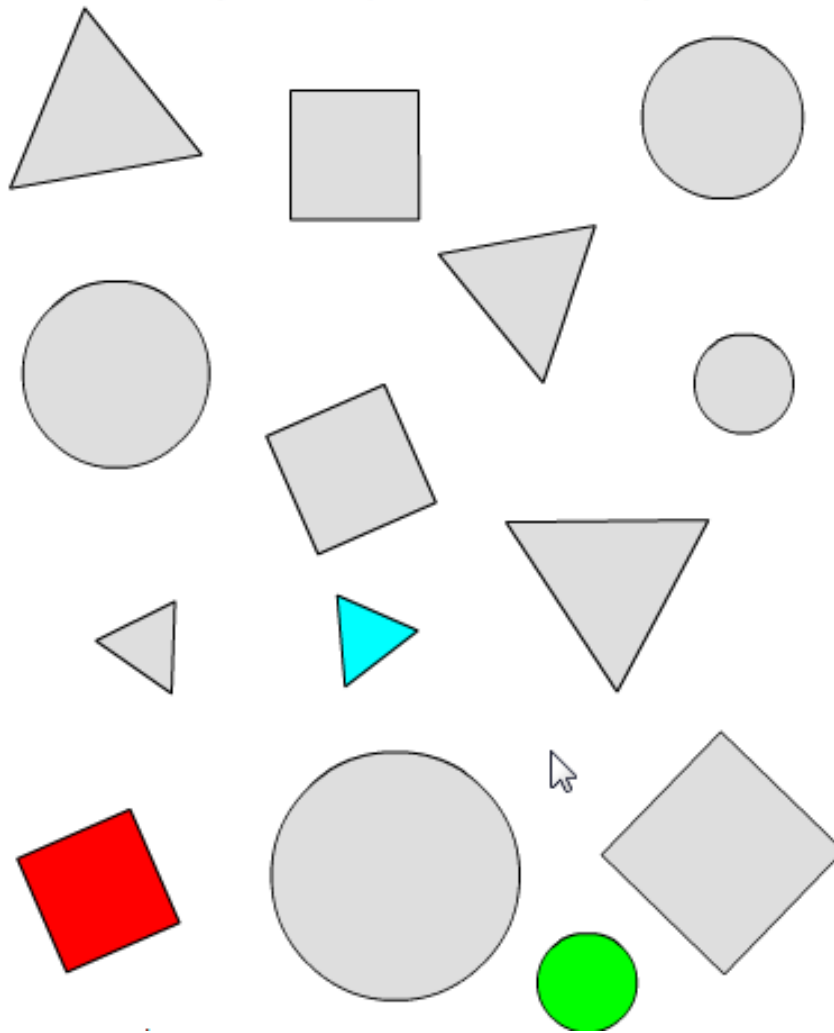
Levels of Geometric Thinking



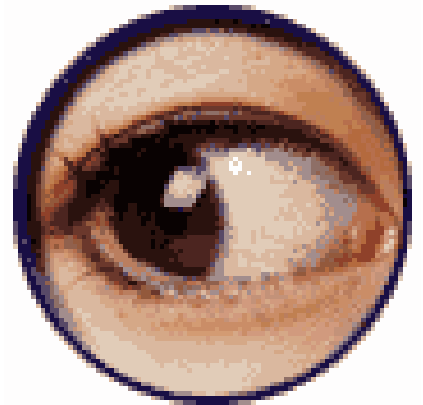
In each figure below, outline a square.
The squares must not be the same size.



Find and color the shapes.



LET'S PLAY....



I, SPY a Shape!

Source of Image: <http://www.webweaver.nu/clipart/eyes2.shtml>

I Spy...



Indiana War Memorial Plaza Source: FunCityFinder.com

I Spy...



Indiana War Memorial Plaza Museum

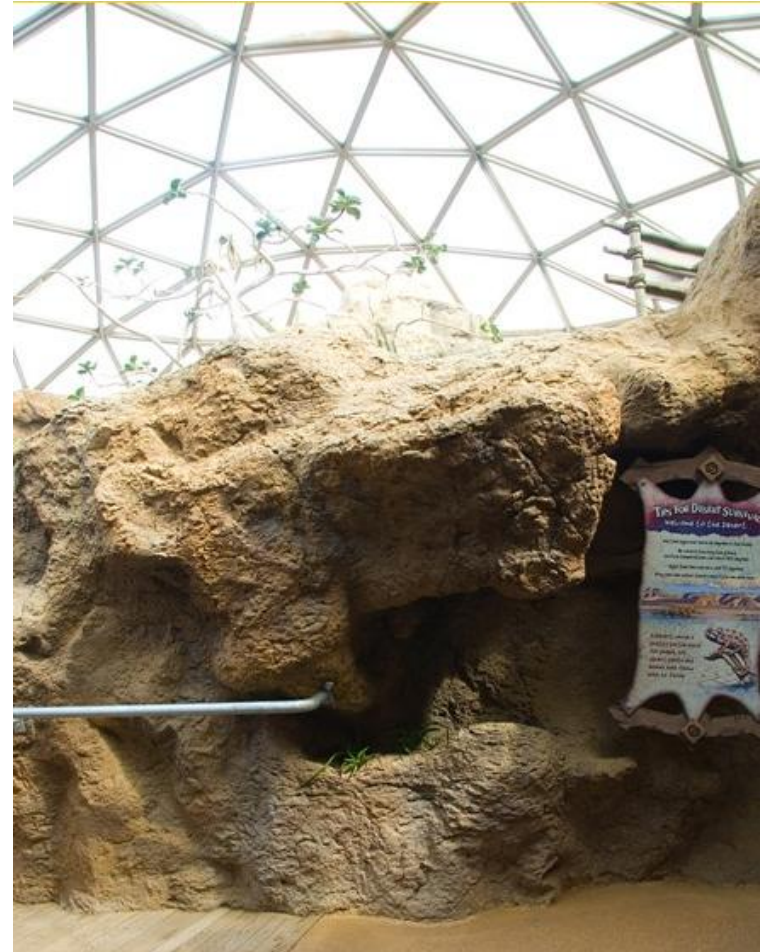
Source: FunCityFinder.com

I Spy...

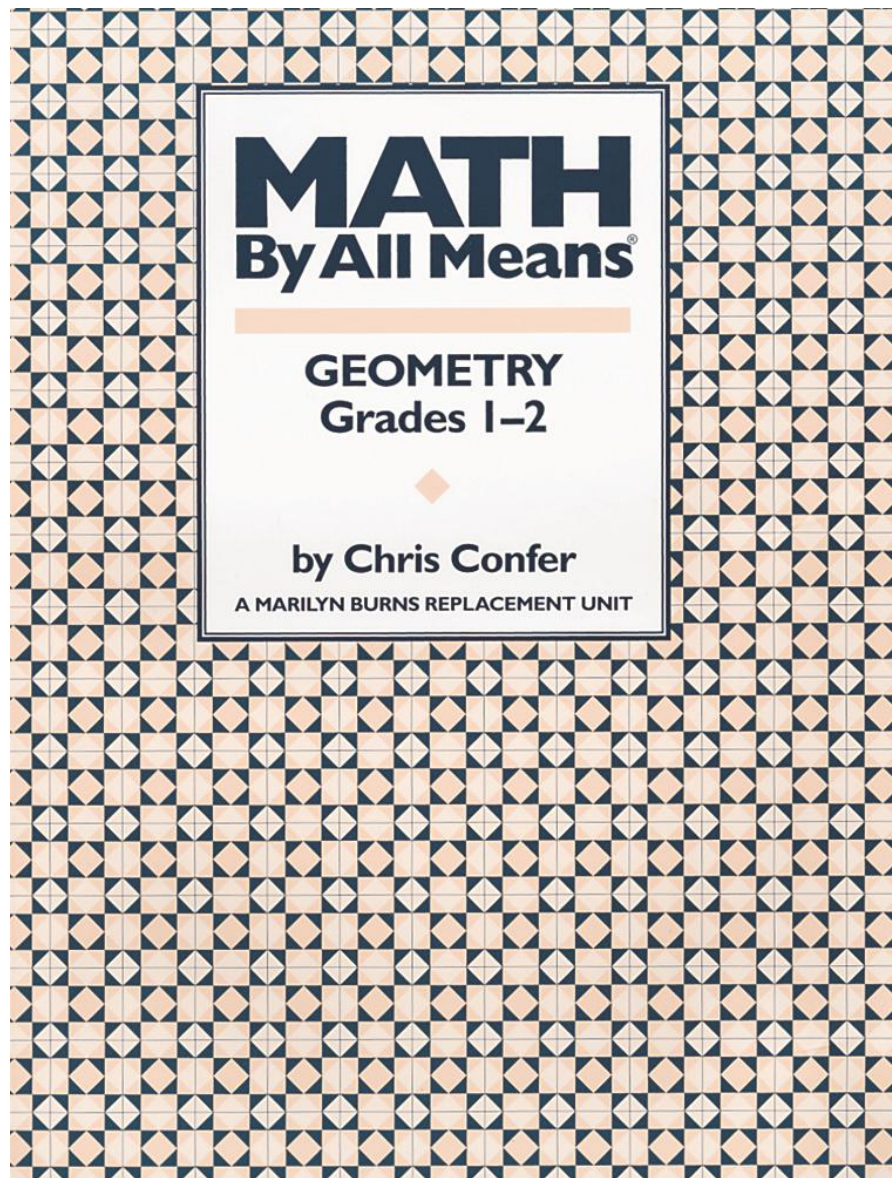


Source: **gettyimages**®

I Spy...



Source: Shelby Materials

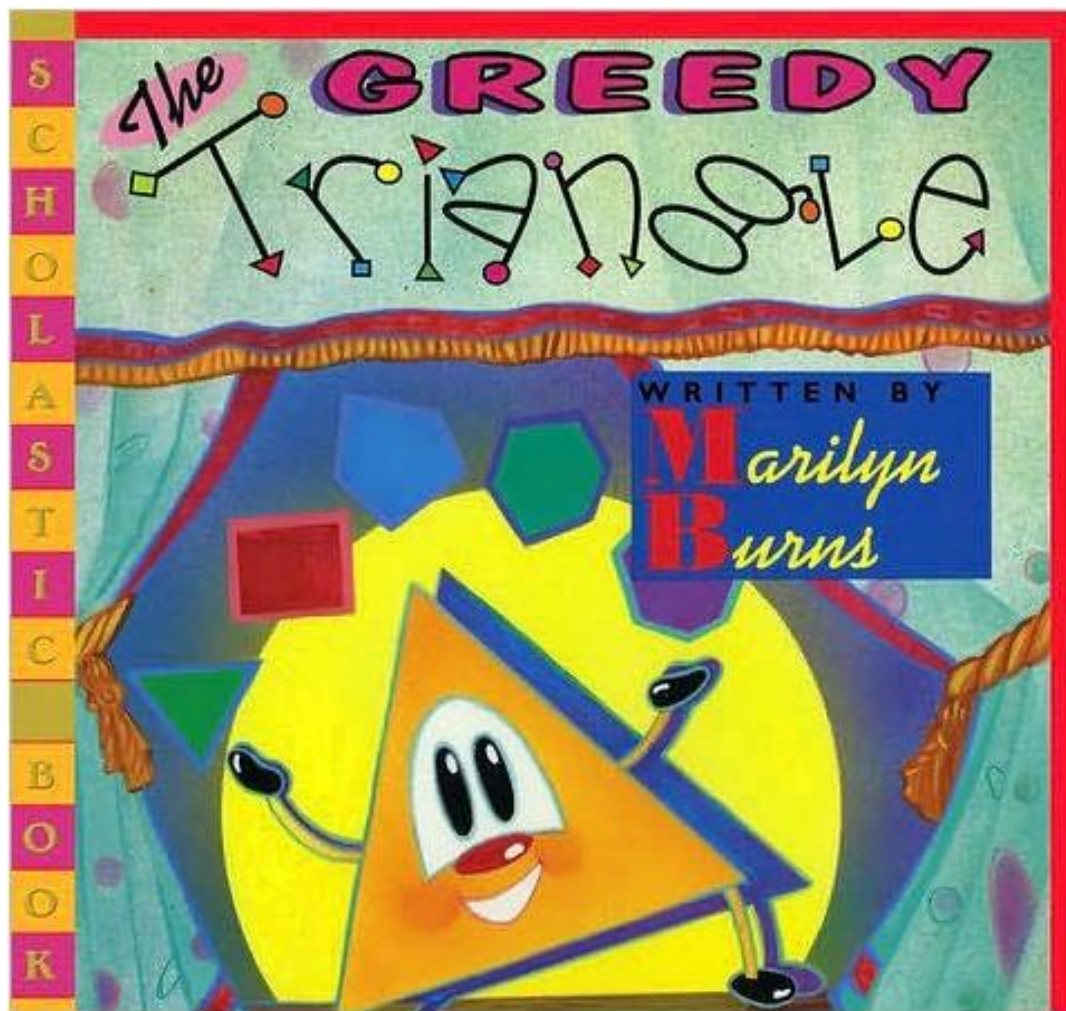


- Describe this shape.
- How is that shape like this one? How is it different?
- What shape is this? What makes it a _____? Why isn't it a _____?
- Where have you seen this shape before?
- What shapes could you make out of these shapes?
- Have you found all the ways to put those shapes together? How do you know?

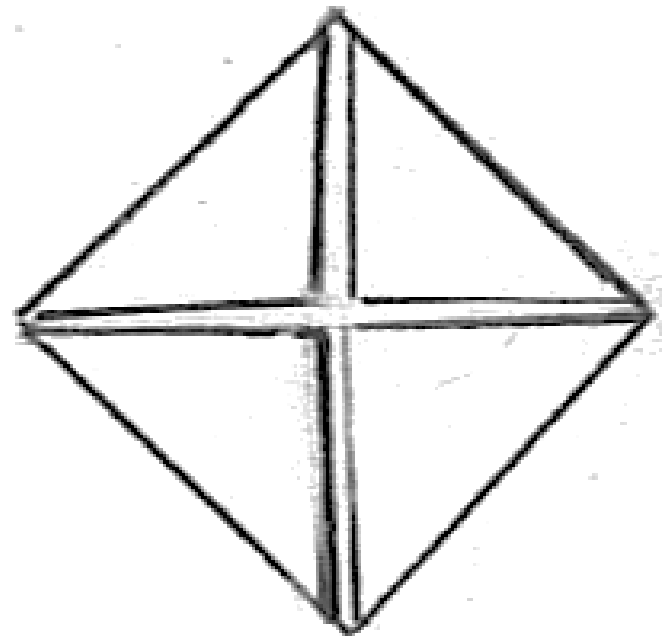
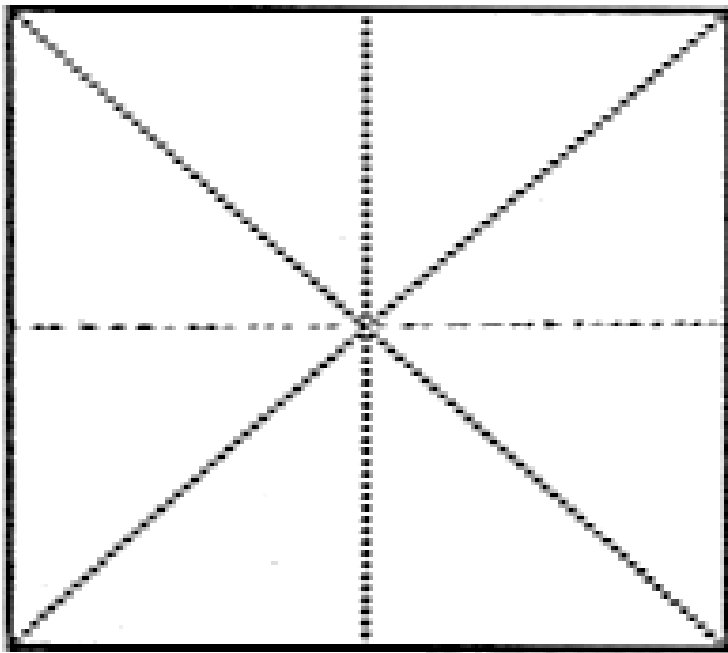
6 Triangle Problem

- Using 6 pattern block triangles, how many different shapes can you make?
- Sides must touch completely.

The Greedy Triangle



Shape Shifter



Shape Shifter Task

- With a partner, find all the different shapes possible with the shape shifter.
- Trace every new shape on construction paper.

Shape Shifter Task

- Join with another partnership at your table to compare results. Together, cut out one of every different shape you have found.
- As you work, identify strategies that you use identifying possible shapes. When you think you have found them all, come up with an explanation that tells how you went about finding shapes so that none were left out.

Vocabulary

Sentence Frames

- Choose among your collection of shapes and practice the following sentence frames to help young students the geometrical ideas:
 - A _____ has _____.
 - It has _____.
 - A _____ has _____, _____, and _____.
 - My shape has _____, _____, and _____.
 - It looks like a _____.
- Create your own sentence frames!

Shape Sorting

Triangles

Quadrilaterals

Pentagons

Hexagons

Shape Shifter Extension

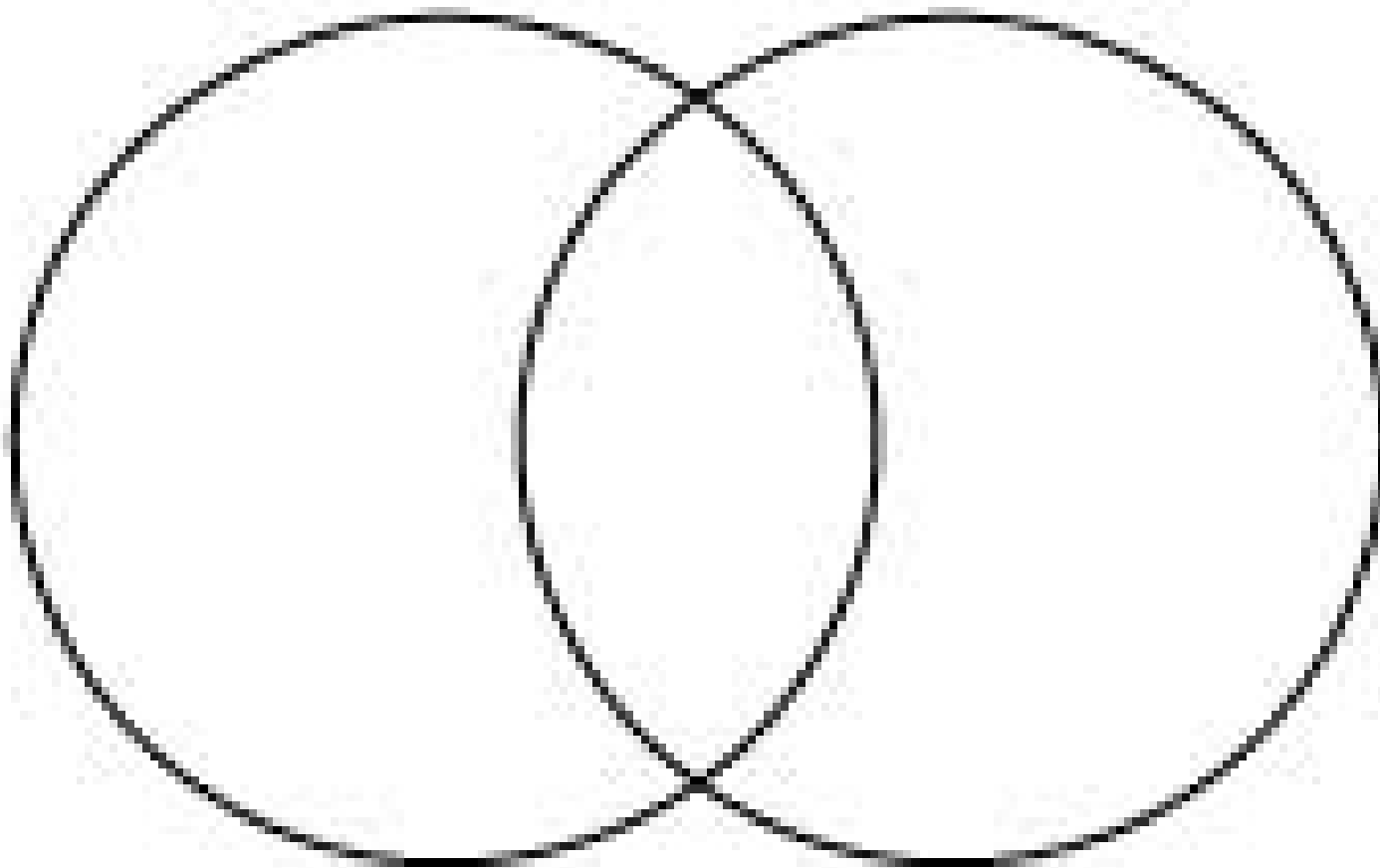


Same

or

Different

Shape Shifter Extension



If we teach today
as we taught
yesterday, we rob
our children of
tomorrow.

John Dewey





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link to slides:

<http://mathsolutions.com/presentation>